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):
30812 S. Dixie Highway, (ISGS Site No. 3140-35)

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: 41.331230035 (Decimal Degrees) Longitude: -87.621361475 (-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: 41.331230035 Longitude: -87.621361475

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 F35-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 3140-35. 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 2017
Date:

LICENSED PROFESSIONAL GEOLOGIST
MICHAEL A. CASTILLO
196.001276
ILLINOIS

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

Summary Table of ISGS Site No. 3140-35
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	F35-1(0-1)-021017	**Soil Reference Concentrations[A]**
Sample Date	2/10/2017	
Location ID	F35-1	
Depth	0 - 1	
ISGS Site No.	3140-35	
Parameter		
Laboratory pH (s.u.)	8.6	<6.25, >9.0
VOCs	None Detected	
SVOCs (ug/kg)		
Benzo(a)anthracene	28 J	900 / 1100 / 1800
Benzo(a)pyrene	29 J	90 / 1300 / 2100
Benzo(b)fluoranthene	42	900 / 1500 /2100
Benzo(g,h,i)perylene	15 J	---
Benzo(k)fluoranthene	30 J	9000
bis(2-Ethylhexyl)phthalate	170 J	46000
Chrysene	35 J	88000
Fluoranthene	44	3100000
Indeno(1,2,3-cd)pyrene	11 J	900 / 900 / 1600
Phenanthrene	17 J	
Pyrene	47	2300000
Total Metals (mg/kg)		
Antimony, Total	ND	5
Arsenic, Total	5.9	11.3 / 13.0
Barium, Total	58	1500
Beryllium, Total	0.71	22
Cadmium, Total	0.14	5.2
Calcium, Total	8000 B	---
Chromium, Total	17	21
Cobalt, Total	16	20
Copper, Total	20	2900
Iron, Total	19000 B	15000 / 15900
Lead, Total	38 B	107
Magnesium, Total	7300 B	325000
Manganese, Total	380	630 / 636
Mercury, Total	0.041	0.89
Nickel, Total	29	100
Potassium, Total	1700	---
Selenium, Total	0.48 J	1.3
Silver, Total	ND	4.4
Sodium, Total	350	---
Thallium, Total	0.28 J	2.6
Vanadium, Total	18	550
Zinc, Total	66 B	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	1.3	0.15
Nickel, TCLP	ND	0.1
Selenium, TCLP	ND	0.05
Zinc, TCLP	ND	5

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Beecher, Will County, Illinois

Field Sample ID	F35-1(0-1)-021017	**Soil Reference Concentrations[A]**
Sample Date	2/10/2017	
Location ID	F35-1	
Depth	0 - 1	
ISGS Site No.	3140-35	
Parameter		
SPLP Metals (mg/l)		
Arsenic, SPLP	0.09	0.05
Barium, SPLP	0.74	2
Beryllium, SPLP	0.01	0.004
Cadmium, SPLP	ND	0.005
Chromium, SPLP	0.24	0.1
Cobalt, SPLP	0.079	1
Copper, SPLP	0.26	0.65
Iron, SPLP	250	5
Lead, SPLP	0.26	0.0075
Manganese, SPLP	1.1	0.15
Mercury, SPLP	ND	0.002
Nickel, SPLP	0.31	0.1
Zinc, SPLP	0.65	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: F35-1(0-1)-021017
Date Collected: 02/10/17 11:20
Date Received: 02/10/17 16:30

Lab Sample ID: 500-123758-11
Matrix: Solid
Percent Solids: 82.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<17		17	7.2	ug/Kg	☼	02/11/17 14:38	02/14/17 17:00	1
Benzene	<1.7		1.7	0.42	ug/Kg	☼	02/11/17 14:38	02/14/17 17:00	1
Bromodichloromethane	<1.7		1.7	0.34	ug/Kg	☼	02/11/17 14:38	02/14/17 17:00	1
Bromoform	<1.7		1.7	0.48	ug/Kg	☼	02/11/17 14:38	02/14/17 17:00	1
Bromomethane	<4.1		4.1	1.6	ug/Kg	☼	02/11/17 14:38	02/14/17 17:00	1
Carbon disulfide	<4.1		4.1	0.86	ug/Kg	☼	02/11/17 14:38	02/14/17 17:00	1
Carbon tetrachloride	<1.7		1.7	0.48	ug/Kg	☼	02/11/17 14:38	02/14/17 17:00	1
Chlorobenzene	<1.7		1.7	0.61	ug/Kg	☼	02/11/17 14:38	02/14/17 17:00	1
Chloroethane	<4.1		4.1	1.2	ug/Kg	☼	02/11/17 14:38	02/14/17 17:00	1
Chloroform	<1.7		1.7	0.57	ug/Kg	☼	02/11/17 14:38	02/14/17 17:00	1
Chloromethane	<4.1		4.1	1.7	ug/Kg	☼	02/11/17 14:38	02/14/17 17:00	1
cis-1,2-Dichloroethene	<1.7		1.7	0.46	ug/Kg	☼	02/11/17 14:38	02/14/17 17:00	1
cis-1,3-Dichloropropene	<1.7		1.7	0.50	ug/Kg	☼	02/11/17 14:38	02/14/17 17:00	1
Dibromochloromethane	<1.7		1.7	0.54	ug/Kg	☼	02/11/17 14:38	02/14/17 17:00	1
1,1-Dichloroethane	<1.7		1.7	0.57	ug/Kg	☼	02/11/17 14:38	02/14/17 17:00	1
1,2-Dichloroethane	<4.1		4.1	1.3	ug/Kg	☼	02/11/17 14:38	02/14/17 17:00	1
1,1-Dichloroethene	<1.7		1.7	0.57	ug/Kg	☼	02/11/17 14:38	02/14/17 17:00	1
1,2-Dichloropropane	<1.7		1.7	0.43	ug/Kg	☼	02/11/17 14:38	02/14/17 17:00	1
1,3-Dichloropropene, Total	<1.7		1.7	0.58	ug/Kg	☼	02/11/17 14:38	02/14/17 17:00	1
Ethylbenzene	<1.7		1.7	0.79	ug/Kg	☼	02/11/17 14:38	02/14/17 17:00	1
2-Hexanone	<4.1		4.1	1.3	ug/Kg	☼	02/11/17 14:38	02/14/17 17:00	1
Methylene Chloride	<4.1		4.1	1.6	ug/Kg	☼	02/11/17 14:38	02/14/17 17:00	1
Methyl Ethyl Ketone	<4.1		4.1	1.8	ug/Kg	☼	02/11/17 14:38	02/14/17 17:00	1
methyl isobutyl ketone	<4.1		4.1	1.2	ug/Kg	☼	02/11/17 14:38	02/14/17 17:00	1
Methyl tert-butyl ether	<1.7		1.7	0.49	ug/Kg	☼	02/11/17 14:38	02/14/17 17:00	1
Styrene	<1.7		1.7	0.50	ug/Kg	☼	02/11/17 14:38	02/14/17 17:00	1
1,1,2,2-Tetrachloroethane	<1.7		1.7	0.53	ug/Kg	☼	02/11/17 14:38	02/14/17 17:00	1
Tetrachloroethene	<1.7		1.7	0.56	ug/Kg	☼	02/11/17 14:38	02/14/17 17:00	1
Toluene	<1.7		1.7	0.42	ug/Kg	☼	02/11/17 14:38	02/14/17 17:00	1
trans-1,2-Dichloroethene	<1.7		1.7	0.73	ug/Kg	☼	02/11/17 14:38	02/14/17 17:00	1
trans-1,3-Dichloropropene	<1.7		1.7	0.58	ug/Kg	☼	02/11/17 14:38	02/14/17 17:00	1
1,1,1-Trichloroethane	<1.7		1.7	0.56	ug/Kg	☼	02/11/17 14:38	02/14/17 17:00	1
1,1,2-Trichloroethane	<1.7		1.7	0.71	ug/Kg	☼	02/11/17 14:38	02/14/17 17:00	1
Trichloroethene	<1.7		1.7	0.56	ug/Kg	☼	02/11/17 14:38	02/14/17 17:00	1
Vinyl chloride	<1.7		1.7	0.73	ug/Kg	☼	02/11/17 14:38	02/14/17 17:00	1
Xylenes, Total	<3.3		3.3	0.53	ug/Kg	☼	02/11/17 14:38	02/14/17 17:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 120*	*02/11/17 14:38*	*02/14/17 17:00*	*1*
Dibromofluoromethane	*97*		*75 - 120*	*02/11/17 14:38*	*02/14/17 17:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*112*		*69 - 134*	*02/11/17 14:38*	*02/14/17 17:00*	*1*
Toluene-d8 (Surr)	*109*		*75 - 123*	*02/11/17 14:38*	*02/14/17 17:00*	*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 14:38	1
1,2-Dichlorobenzene	<200		200	47	ug/Kg	☼	02/16/17 07:05	02/17/17 14:38	1
1,3-Dichlorobenzene	<200		200	44	ug/Kg	☼	02/16/17 07:05	02/17/17 14:38	1
1,4-Dichlorobenzene	<200		200	51	ug/Kg	☼	02/16/17 07:05	02/17/17 14:38	1
2,2'-oxybis[1-chloropropane]	<200		200	46	ug/Kg	☼	02/16/17 07:05	02/17/17 14:38	1

Client Sample ID: F35-1(0-1)-021017
Date Collected: 02/10/17 11:20
Date Received: 02/10/17 16:30

Lab Sample ID: 500-123758-11
Matrix: Solid
Percent Solids: 82.9

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 14:38	1
2,4,6-Trichlorophenol	<390		390	140	ug/Kg	☼	02/16/17 07:05	02/17/17 14:38	1
2,4-Dichlorophenol	<390		390	94	ug/Kg	☼	02/16/17 07:05	02/17/17 14:38	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	02/16/17 07:05	02/17/17 14:38	1
2,4-Dinitrophenol	<800		800	700	ug/Kg	☼	02/16/17 07:05	02/17/17 14:38	1
2,4-Dinitrotoluene	<200		200	63	ug/Kg	☼	02/16/17 07:05	02/17/17 14:38	1
2,6-Dinitrotoluene	<200		200	78	ug/Kg	☼	02/16/17 07:05	02/17/17 14:38	1
2-Chloronaphthalene	<200		200	44	ug/Kg	☼	02/16/17 07:05	02/17/17 14:38	1
2-Chlorophenol	<200		200	67	ug/Kg	☼	02/16/17 07:05	02/17/17 14:38	1
2-Methylnaphthalene	<80		80	7.3	ug/Kg	☼	02/16/17 07:05	02/17/17 14:38	1
2-Methylphenol	<200		200	63	ug/Kg	☼	02/16/17 07:05	02/17/17 14:38	1
2-Nitroaniline	<200		200	53	ug/Kg	☼	02/16/17 07:05	02/17/17 14:38	1
2-Nitrophenol	<390		390	93	ug/Kg	☼	02/16/17 07:05	02/17/17 14:38	1
3 & 4 Methylphenol	<200		200	66	ug/Kg	☼	02/16/17 07:05	02/17/17 14:38	1
3,3'-Dichlorobenzidine	<200		200	55	ug/Kg	☼	02/16/17 07:05	02/17/17 14:38	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	02/16/17 07:05	02/17/17 14:38	1
4,6-Dinitro-2-methylphenol	<800		800	320	ug/Kg	☼	02/16/17 07:05	02/17/17 14:38	1
4-Bromophenyl phenyl ether	<200		200	52	ug/Kg	☼	02/16/17 07:05	02/17/17 14:38	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	02/16/17 07:05	02/17/17 14:38	1
4-Chloroaniline	<800		800	190	ug/Kg	☼	02/16/17 07:05	02/17/17 14:38	1
4-Chlorophenyl phenyl ether	<200		200	46	ug/Kg	☼	02/16/17 07:05	02/17/17 14:38	1
4-Nitroaniline	<390		390	170	ug/Kg	☼	02/16/17 07:05	02/17/17 14:38	1
4-Nitrophenol	<800		800	380	ug/Kg	☼	02/16/17 07:05	02/17/17 14:38	1
Acenaphthene	<39		39	7.1	ug/Kg	☼	02/16/17 07:05	02/17/17 14:38	1
Acenaphthylene	<39		39	5.2	ug/Kg	☼	02/16/17 07:05	02/17/17 14:38	1
Anthracene	<39		39	6.6	ug/Kg	☼	02/16/17 07:05	02/17/17 14:38	1
Benzo[a]anthracene	**28**	**J**	39	5.3	ug/Kg	☼	02/16/17 07:05	02/17/17 14:38	1
Benzo[a]pyrene	**29**	**J**	39	7.6	ug/Kg	☼	02/16/17 07:05	02/17/17 14:38	1
Benzo[b]fluoranthene	**42**		39	8.5	ug/Kg	☼	02/16/17 07:05	02/17/17 14:38	1
Benzo[g,h,i]perylene	**15**	**J**	39	13	ug/Kg	☼	02/16/17 07:05	02/17/17 14:38	1
Benzo[k]fluoranthene	**30**	**J**	39	12	ug/Kg	☼	02/16/17 07:05	02/17/17 14:38	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	☼	02/16/17 07:05	02/17/17 14:38	1
Bis(2-chloroethyl)ether	<200		200	59	ug/Kg	☼	02/16/17 07:05	02/17/17 14:38	1
Bis(2-ethylhexyl) phthalate	**170**	**J**	200	72	ug/Kg	☼	02/16/17 07:05	02/17/17 14:38	1
Butyl benzyl phthalate	<200		200	75	ug/Kg	☼	02/16/17 07:05	02/17/17 14:38	1
Carbazole	<200	*	200	99	ug/Kg	☼	02/16/17 07:05	02/17/17 14:38	1
Chrysene	**35**	**J**	39	11	ug/Kg	☼	02/16/17 07:05	02/17/17 14:38	1
Dibenz(a,h)anthracene	<39		39	7.6	ug/Kg	☼	02/16/17 07:05	02/17/17 14:38	1
Dibenzofuran	<200		200	46	ug/Kg	☼	02/16/17 07:05	02/17/17 14:38	1
Diethyl phthalate	<200		200	67	ug/Kg	☼	02/16/17 07:05	02/17/17 14:38	1
Dimethyl phthalate	<200		200	52	ug/Kg	☼	02/16/17 07:05	02/17/17 14:38	1
Di-n-butyl phthalate	<200		200	60	ug/Kg	☼	02/16/17 07:05	02/17/17 14:38	1
Di-n-octyl phthalate	<200		200	64	ug/Kg	☼	02/16/17 07:05	02/17/17 14:38	1
Fluoranthene	**44**		39	7.3	ug/Kg	☼	02/16/17 07:05	02/17/17 14:38	1
Fluorene	<39		39	5.6	ug/Kg	☼	02/16/17 07:05	02/17/17 14:38	1
Hexachlorobenzene	<80		80	9.2	ug/Kg	☼	02/16/17 07:05	02/17/17 14:38	1
Hexachlorobutadiene	<200		200	62	ug/Kg	☼	02/16/17 07:05	02/17/17 14:38	1
Hexachlorocyclopentadiene	<800		800	230	ug/Kg	☼	02/16/17 07:05	02/17/17 14:38	1
Hexachloroethane	<200		200	60	ug/Kg	☼	02/16/17 07:05	02/17/17 14:38	1

Client Sample ID: F35-1(0-1)-021017
Date Collected: 02/10/17 11:20
Date Received: 02/10/17 16:30

Lab Sample ID: 500-123758-11
Matrix: Solid
Percent Solids: 82.9

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	**11**	**J**	39	10	ug/Kg	☼	02/16/17 07:05	02/17/17 14:38	1
Isophorone	<200		200	44	ug/Kg	☼	02/16/17 07:05	02/17/17 14:38	1
Naphthalene	<39		39	6.1	ug/Kg	☼	02/16/17 07:05	02/17/17 14:38	1
Nitrobenzene	<39		39	9.9	ug/Kg	☼	02/16/17 07:05	02/17/17 14:38	1
N-Nitrosodi-n-propylamine	<80		80	48	ug/Kg	☼	02/16/17 07:05	02/17/17 14:38	1
N-Nitrosodiphenylamine	<200		200	47	ug/Kg	☼	02/16/17 07:05	02/17/17 14:38	1
Pentachlorophenol	<800		800	630	ug/Kg	☼	02/16/17 07:05	02/17/17 14:38	1
Phenanthrene	**17**	**J**	39	5.5	ug/Kg	☼	02/16/17 07:05	02/17/17 14:38	1
Phenol	<200		200	88	ug/Kg	☼	02/16/17 07:05	02/17/17 14:38	1
Pyrene	**47**		39	7.8	ug/Kg	☼	02/16/17 07:05	02/17/17 14:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*72*		*25 - 130*	*02/16/17 07:05*	*02/17/17 14:38*	*1*
2-Fluorobiphenyl	*111*		*42 - 115*	*02/16/17 07:05*	*02/17/17 14:38*	*1*
2-Fluorophenol	*94*		*40 - 130*	*02/16/17 07:05*	*02/17/17 14:38*	*1*
Nitrobenzene-d5	*91*		*33 - 124*	*02/16/17 07:05*	*02/17/17 14:38*	*1*
Phenol-d5	*89*		*36 - 123*	*02/16/17 07:05*	*02/17/17 14:38*	*1*
Terphenyl-d14	*107*		*25 - 150*	*02/16/17 07:05*	*02/17/17 14:38*	*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 17:49	1
Barium	**0.37**	**J**	0.50	0.050	mg/L		02/17/17 14:00	02/18/17 17:49	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/17/17 14:00	02/18/17 17:49	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/17/17 14:00	02/18/17 17:49	1
Chromium	<0.025		0.025	0.010	mg/L		02/17/17 14:00	02/18/17 17:49	1
Cobalt	<0.025		0.025	0.010	mg/L		02/17/17 14:00	02/18/17 17:49	1
Copper	<0.025		0.025	0.010	mg/L		02/17/17 14:00	02/18/17 17:49	1
Iron	<0.40		0.40	0.20	mg/L		02/17/17 14:00	02/18/17 17:49	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/17/17 14:00	02/18/17 17:49	1
Manganese	**1.3**		0.025	0.010	mg/L		02/17/17 14:00	02/18/17 17:49	1
Nickel	<0.025		0.025	0.010	mg/L		02/17/17 14:00	02/18/17 17:49	1
Selenium	<0.050		0.050	0.020	mg/L		02/17/17 14:00	02/18/17 17:49	1
Silver	<0.025		0.025	0.010	mg/L		02/17/17 14:00	02/18/17 17:49	1
Zinc	<0.50		0.50	0.020	mg/L		02/17/17 14:00	02/18/17 17:49	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		02/16/17 14:05	02/18/17 16:22	1
Barium	**0.74**		0.50	0.050	mg/L		02/16/17 14:05	02/18/17 16:22	1
Beryllium	**0.010**		0.0040	0.0040	mg/L		02/16/17 14:05	02/18/17 16:22	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/16/17 14:05	02/18/17 16:22	1
Chromium	**0.24**		0.025	0.010	mg/L		02/16/17 14:05	02/18/17 16:22	1
Cobalt	**0.079**		0.025	0.010	mg/L		02/16/17 14:05	02/18/17 16:22	1
Copper	**0.26**		0.025	0.010	mg/L		02/16/17 14:05	02/18/17 16:22	1
Iron	**250**		0.40	0.20	mg/L		02/16/17 14:05	02/18/17 16:22	1
Lead	**0.26**		0.0075	0.0075	mg/L		02/16/17 14:05	02/18/17 16:22	1
Manganese	**1.1**		0.025	0.010	mg/L		02/16/17 14:05	02/18/17 16:22	1
Nickel	**0.31**		0.025	0.010	mg/L		02/16/17 14:05	02/18/17 16:22	1
Selenium	<0.050		0.050	0.020	mg/L		02/16/17 14:05	02/18/17 16:22	1

Client Sample ID: F35-1(0-1)-021017
Date Collected: 02/10/17 11:20
Date Received: 02/10/17 16:30

Lab Sample ID: 500-123758-11
Matrix: Solid
Percent Solids: 82.9

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 16:22	1
Zinc	**0.65**		0.50	0.020	mg/L		02/16/17 14:05	02/18/17 16:22	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 21:43	1
Arsenic	**5.9**		0.55	0.26	mg/Kg	☼	02/17/17 08:35	02/17/17 21:43	1
Barium	**58**		0.55	0.10	mg/Kg	☼	02/17/17 08:35	02/17/17 21:43	1
Beryllium	**0.71**		0.22	0.048	mg/Kg	☼	02/17/17 08:35	02/17/17 21:43	1
Cadmium	**0.14**		0.11	0.032	mg/Kg	☼	02/17/17 08:35	02/17/17 21:43	1
Calcium	**8000**	**B**	11	3.6	mg/Kg	☼	02/17/17 08:35	02/17/17 21:43	1
Chromium	**17**		0.55	0.095	mg/Kg	☼	02/17/17 08:35	02/17/17 21:43	1
Cobalt	**16**		0.28	0.062	mg/Kg	☼	02/17/17 08:35	02/17/17 21:43	1
Copper	**20**		0.55	0.12	mg/Kg	☼	02/17/17 08:35	02/17/17 21:43	1
Iron	**19000**	**B**	11	4.3	mg/Kg	☼	02/17/17 08:35	02/17/17 21:43	1
Lead	**38**	**B**	0.28	0.14	mg/Kg	☼	02/17/17 08:35	02/17/17 21:43	1
Magnesium	**7300**	**B**	5.5	2.2	mg/Kg	☼	02/17/17 08:35	02/17/17 21:43	1
Manganese	**380**		0.55	0.11	mg/Kg	☼	02/17/17 08:35	02/17/17 21:43	1
Nickel	**29**		0.55	0.15	mg/Kg	☼	02/17/17 08:35	02/17/17 21:43	1
Potassium	**1700**		28	4.5	mg/Kg	☼	02/17/17 08:35	02/17/17 21:43	1
Selenium	**0.48**	**J**	0.55	0.27	mg/Kg	☼	02/17/17 08:35	02/17/17 21:43	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	02/17/17 08:35	02/17/17 21:43	1
Sodium	**350**		55	7.3	mg/Kg	☼	02/17/17 08:35	02/17/17 21:43	1
Thallium	**0.28**	**J**	0.55	0.27	mg/Kg	☼	02/17/17 08:35	02/17/17 21:43	1
Vanadium	**18**		0.28	0.081	mg/Kg	☼	02/17/17 08:35	02/17/17 21:43	1
Zinc	**66**	**B**	1.1	0.35	mg/Kg	☼	02/17/17 08:35	02/17/17 21:43	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		02/17/17 13:30	02/20/17 12:22	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 11:43	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**41**		19	10	ug/Kg	☼	02/15/17 16:00	02/16/17 12:49	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 10:03	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 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)

2/21/2017

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

Report To (optional)		Bill To (optional)	
Contact:	S. Balasubkumar	Contact:	
Company:	Weston Solutions	Company:	
Address:	300 Plaza Cir, Ste 802	Address:	
Address:	Mundelein, IL 60060	Address:	
Phone:	224-864-7250	Phone:	
Fax:		Fax:	
E-Mail:		PO#/Reference#	

Chain of Custody Record

Lab Job #: 500-123758

Chain of Custody Number:

Page 2 of 5

Temperature °C of Cooler: 0.6 0.7 2.0 0.7 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. Tucharz

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
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 (1208)

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):
30700-30900 blocks of S. Dixie Highway, (ISGS Site No. 3140-38)

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: 41.322244320 (Decimal Degrees) Longitude: -87.621323943 (-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: 41.322244320 Longitude: -87.621323943

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 A38-1, A38-4, A38-8, A38-10, A38-14, A38-15, A38-17, AND A38-24, A38-25, and A38-26 WERE SAMPLED ADJACENT TO ISGS SITE No. 3140-38. SEE FIGURES 3-2/3-3/3-4 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: 500-123630-1, 500-123757-1, 500-123628-1, 500-123758-1.
ALSO SEE FIGURES 4-2, 4-3, AND 4-4 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. 3140-38
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	A38-1(0-1)-028017	A38-4(0-1)-028017	A38-8(0-1)-021017	A38-10(0-1)-021017	Soil Reference Concentrations[A]
Sample Date	2/8/2017	2/8/2017	2/10/2017	2/10/2017	
Location ID	A38-1	A38-4	A38-8	A38-10	
Depth	0 - 1	0 - 1	0 - 1	0 - 1	
ISGS Site No.	3140-38	3140-38	3140-38	3140-38	
Parameter					
Laboratory pH (s.u.)	8.4	8.5	7.7	8.2	<6.25, >9.0
VOCs	None Detected				
SVOCs (ug/kg)					
2-Methylnaphthalene	ND	ND	ND	ND	---
Acenaphthene	ND	ND	ND	ND	570000
Acenaphthylene	ND	ND	ND	ND	---
Anthracene	ND	ND	ND	ND	1.2E+07
Benzo(a)anthracene	30 J	16 J	ND	7.2 J	900 / 1100 / 1800
Benzo(a)pyrene	27 J	23 J	16 J	11 J	90 / 1300 / 2100
Benzo(b)fluoranthene	50 J	28 J	24 J	11 J	900 / 1500 /2100
Benzo(g,h,i)perylene	21 J	ND	ND	ND	---
Benzo(k)fluoranthene	33 J	11 J	ND	ND	9000
bis(2-Ethylhexyl)phthalate	89 J	200	ND	ND	46000
Chrysene	36 J	18 J	ND	ND	88000
Dibenzo(a,h)anthracene	ND	ND	ND	ND	90 / 200 / 420
Fluoranthene	54	30 J	19 J	10 J	3100000
Fluorene	ND	ND	ND	ND	560000
Indeno(1,2,3-cd)pyrene	ND	ND	ND	ND	900 / 900 / 1600
Naphthalene, SVOC	ND	ND	ND	ND	1800
Phenanthrene	29 J	17 J	10 J	7.7 J	
Pyrene	73	27 J	23 J	11 J	2300000
Total Metals (mg/kg)					
Antimony, Total	0.24 J	ND	ND	ND	5
Arsenic, Total	6.3 J-	6.7 J-	9.4	5.9	11.3 / 13.0
Barium, Total	46	46	46	45	1500
Beryllium, Total	0.62	0.55	0.6	0.7	22
Cadmium, Total	0.21	0.19	0.24	0.21	5.2
Calcium, Total	19000 B	4400 B	12000	7100	---
Chromium, Total	16 B	15 B	15	16	21
Cobalt, Total	13	11	13	12	20
Copper, Total	21	19	20	19	2900
Iron, Total	18000 B	18000 B	22000	18000	15000 / 15900
Lead, Total	56 B	66 B	76	43	107
Magnesium, Total	11000 B	4700 B	9400 B	6700 B	325000
Manganese, Total	390	360	490	270	630 / 636
Mercury, Total	0.018 J	0.039	0.017 J	0.037	0.89
Nickel, Total	30	23	25	35	100
Potassium, Total	1400	1100	1100	1500	---
Selenium, Total	0.75	1.2	0.6	ND	1.3
Sodium, Total	1600	1900	2100	2100	---
Thallium, Total	ND	ND	ND	ND	2.6
Vanadium, Total	17	18	19	16	550
Zinc, Total	66	65	67	62	5100
TCLP Metals (mg/l)					
Arsenic, TCLP	ND	0.014 J	ND	ND	0.05
Barium, TCLP	0.27 J	0.19 J	0.24 J	0.25 J	2
Cadmium, TCLP	ND	ND	0.0028 J	ND	0.005
Chromium, TCLP	ND	ND	ND	ND	0.1
Cobalt, TCLP	ND	ND	ND	ND	1
Copper, TCLP	0.011 J	ND	0.013 J	0.014 J	0.65
Iron, TCLP	ND	0.37 J	0.25 J	1.1	5
Lead, TCLP	ND	ND	0.012	0.016	0.0075
Manganese, TCLP	0.48	0.19	1.5	0.72	0.15
Nickel, TCLP	ND	ND	ND	ND	0.1
Selenium, TCLP	ND	ND	ND	ND	0.05
Zinc, TCLP	0.035 J	0.021 J	0.049 J	0.034 J	5

Summary Table of ISGS Site No. 3140-38
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	A38-1(0-1)-028017	A38-4(0-1)-028017	A38-8(0-1)-021017	A38-10(0-1)-021017	**Soil Reference Concentrations[A]**
Sample Date	2/8/2017	2/8/2017	2/10/2017	2/10/2017	
Location ID	A38-1	A38-4	A38-8	A38-10	
Depth	0 - 1	0 - 1	0 - 1	0 - 1	
ISGS Site No.	3140-38	3140-38	3140-38	3140-38	
Parameter					
SPLP Metals (mg/l)					
Arsenic, SPLP	0.1	0.096	0.081	0.097	0.05
Barium, SPLP	0.66	0.62	0.5	0.63	2
Beryllium, SPLP	0.011	0.0099	0.0084	0.01	0.004
Cadmium, SPLP	ND	ND	ND	ND	0.005
Chromium, SPLP	0.22	0.23	0.21	0.24	0.1
Cobalt, SPLP	0.082	0.078	0.07	0.092	1
Copper, SPLP	0.26	0.26	0.22	0.29	0.65
Iron, SPLP	250	240	210	250	5
Lead, SPLP	0.42	0.39	0.39	0.59	0.0075
Manganese, SPLP	1.5	1.6	1.3	1.5	0.15
Mercury, SPLP	ND	ND	ND	ND	0.002
Nickel, SPLP	0.31	0.26	0.22	0.35	0.1
Zinc, SPLP	0.76	0.74	0.65	0.77	5

Summary Table of ISGS Site No. 3140-38
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	A38-14(0-1)-020817	A38-15(0-1)-020817	A38-17(0-1)-020817	A38-24(0-1)-021017	Soil Reference Concentrations[A]
Sample Date	2/8/2017	2/8/2017	2/8/2017	2/10/2017	
Location ID	A38-14	A38-15	A38-17	A38-24	
Depth	0 - 1	0 - 1	0 - 1	0 - 1	
ISGS Site No.	3140-38	3140-38	3140-38	3140-38	
Parameter					
Laboratory pH (s.u.)	8.7	8.6	9.0	8.5	<6.25, >9.0
VOCs	None Detected				
SVOCs (ug/kg)					
2-Methylnaphthalene	15 J	ND	ND	ND	---
Acenaphthene	87	ND	ND	23 J	570000
Acenaphthylene	16 J	ND	ND	ND	---
Anthracene	150	ND	ND	48	1.2E+07
Benzo(a)anthracene	570	19 J	25 J	120 J	900 / 1100 / 1800
Benzo(a)pyrene	560 J	25 J	31 J	150 J	90 / 1300 / 2100
Benzo(b)fluoranthene	1000 J	42 J	60 J	240 J	900 / 1500 /2100
Benzo(g,h,i)perylene	220 J	19 J	21 J	65 J	---
Benzo(k)fluoranthene	470 J	17 J	13 J	76 J+	9000
bis(2-Ethylhexyl)phthalate	150 J	ND	80 J	130 J	46000
Chrysene	700	23 J	30 J	150 J	88000
Dibenzo(a,h)anthracene	46 J	ND	ND	ND	90 / 200 / 420
Fluoranthene	1900	36 J	44	230 J	3100000
Fluorene	68	ND	ND	17 J	560000
Indeno(1,2,3-cd)pyrene	210 *	ND	15 J	43 J	900 / 900 / 1600
Naphthalene, SVOC	11 J	ND	ND	14 J	1800
Phenanthrene	1000	13 J	18 J	190 J	
Pyrene	1800	55	76 J	400 J	2300000
Total Metals (mg/kg)					
Antimony, Total	ND	ND	ND	ND	5
Arsenic, Total	2	3.6	3.7	6.3	11.3 / 13.0
Barium, Total	38	56	38	43	1500
Beryllium, Total	0.21	0.54	0.37	0.67	22
Cadmium, Total	0.58 B	0.52 B	ND	0.28	5.2
Calcium, Total	180000 B	28000 B	120000 B	24000 J	---
Chromium, Total	14 B	14 B	19 B	20	21
Cobalt, Total	2.6	6.8	6.5	11	20
Copper, Total	42	20	15	24 J-	2900
Iron, Total	10000 B	11000 B	10000 B	18000 J+	15000 / 15900
Lead, Total	100 B	160 B	91 B	75 J-	107
Magnesium, Total	110000 B	18000 B	78000 B	17000 J	325000
Manganese, Total	250	290	230	350 J-	630 / 636
Mercury, Total	0.0099 J	0.019	0.018	0.037	0.89
Nickel, Total	9.2	20	16	28	100
Potassium, Total	540	1400	1400	1700 J+	---
Selenium, Total	ND	ND	ND	0.32 J	1.3
Sodium, Total	530	2300	1300	1500	---
Thallium, Total	ND	ND	ND	ND	2.6
Vanadium, Total	6.8	16	12	20	550
Zinc, Total	160	79	59	100 J-	5100
TCLP Metals (mg/l)					
Arsenic, TCLP	ND	ND	ND	ND	0.05
Barium, TCLP	0.28 J	0.39 J	0.52	0.22 J	2
Cadmium, TCLP	0.0034 J	ND	ND	0.002 J	0.005
Chromium, TCLP	ND	ND	ND	ND	0.1
Cobalt, TCLP	ND	ND	ND	ND	1
Copper, TCLP	ND	ND	ND	0.016 J	0.65
Iron, TCLP	ND	ND	ND	ND	5
Lead, TCLP	0.018	ND	ND	0.0081	0.0075
Manganese, TCLP	0.39	1.2	1.7	0.92	0.15
Nickel, TCLP	0.012 J	ND	ND	0.023 J	0.1
Selenium, TCLP	ND	ND	ND	ND	0.05
Zinc, TCLP	0.57 B	ND	ND	0.07 J	5

Summary Table of ISGS Site No. 3140-38
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	A38-14(0-1)-020817	A38-15(0-1)-020817	A38-17(0-1)-020817	A38-24(0-1)-021017	Soil Reference Concentrations[A]
Sample Date	2/8/2017	2/8/2017	2/8/2017	2/10/2017	
Location ID	A38-14	A38-15	A38-17	A38-24	
Depth	0 - 1	0 - 1	0 - 1	0 - 1	
ISGS Site No.	3140-38	3140-38	3140-38	3140-38	
Parameter					
SPLP Metals (mg/l)					
Arsenic, SPLP	ND	0.077	0.1	0.055	0.05
Barium, SPLP	0.055 J	0.87	0.9	0.36 J	2
Beryllium, SPLP	ND	0.01	0.01	0.0065	0.004
Cadmium, SPLP	ND	ND	ND	ND	0.005
Chromium, SPLP	0.02 J	0.22	0.22	0.16	0.1
Cobalt, SPLP	ND	0.075	0.087	0.038	1
Copper, SPLP	0.044	0.26	0.27	0.18	0.65
Iron, SPLP	7.7	240	270	160	5
Lead, SPLP	0.069	0.49	0.25	0.23	0.0075
Manganese, SPLP	0.071	1.4	1.7	0.74	0.15
Mercury, SPLP	ND	ND	ND	ND	0.002
Nickel, SPLP	ND	0.29	0.32	0.17	0.1
Zinc, SPLP	0.18 J	0.78	0.74	0.5	5

Summary Table of ISGS Site No. 3140-38
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	A38-24(0-1)-021017D	A38-25(0-1)-021017	A38-26(0-1)-021017	Soil Reference Concentrations[A]
Sample Date	2/10/2017	2/10/2017	2/10/2017	
Location ID	A38-24	A38-25	A38-26	
Depth	0 - 1	0 - 1	0 - 1	
ISGS Site No.	3140-38	3140-38	3140-38	
Parameter				
Laboratory pH (s.u.)	8.3	8.6	8.5	<6.25, >9.0
VOCs	None Detected			
SVOCs (ug/kg)				
2-Methylnaphthalene	ND	ND	ND	---
Acenaphthene	ND	16 J	ND	570000
Acenaphthylene	ND	ND	ND	---
Anthracene	13 J	27 J	ND	1.2E+07
Benzo(a)anthracene	54	86	20 J	900 / 1100 / 1800
Benzo(a)pyrene	55 J	67	ND	90 / 1300 / 2100
Benzo(b)fluoranthene	97 J	110	25 J	900 / 1500 /2100
Benzo(g,h,i)perylene	28 J	42	18 J	---
Benzo(k)fluoranthene	29 J	68	25 J	9000
bis(2-Ethylhexyl)phthalate	ND	ND	ND	46000
Chrysene	53 J	85	28 J	88000
Dibenzo(a,h)anthracene	ND	ND	ND	90 / 200 / 420
Fluoranthene	100 J	190	42	3100000
Fluorene	ND	10 J	ND	560000
Indeno(1,2,3-cd)pyrene	21 J	34 J	ND	900 / 900 / 1600
Naphthalene, SVOC	ND	ND	ND	1800
Phenanthrene	49 J	150	20 J	
Pyrene	96 J	190	44	2300000
Total Metals (mg/kg)				
Antimony, Total	ND	ND	ND	5
Arsenic, Total	6.5	4.1	9.1	11.3 / 13.0
Barium, Total	51	54	67	1500
Beryllium, Total	0.64	0.57	0.69	22
Cadmium, Total	0.41	0.33	0.22	5.2
Calcium, Total	23000 B	23000 B	23000 B	---
Chromium, Total	18	15	16	21
Cobalt, Total	11	8.3	12	20
Copper, Total	23	22	24	2900
Iron, Total	18000 B	14000 B	21000 B	15000 / 15900
Lead, Total	77 B	57 B	27 B	107
Magnesium, Total	17000 B	15000 B	14000 B	325000
Manganese, Total	370	250	420	630 / 636
Mercury, Total	0.037	0.036	0.048	0.89
Nickel, Total	28	22	30	100
Potassium, Total	1600	1200	1500	---
Selenium, Total	0.56	0.45 J	0.83	1.3
Sodium, Total	1600	2200	730	---
Thallium, Total	ND	ND	0.36 J	2.6
Vanadium, Total	21	16	22	550
Zinc, Total	96 B	76 B	94 B	5100
TCLP Metals (mg/l)				
Arsenic, TCLP	ND	ND	ND	0.05
Barium, TCLP	0.23 J	0.23 J	0.45 J	2
Cadmium, TCLP	0.0028 J	ND	ND	0.005
Chromium, TCLP	ND	ND	ND	0.1
Cobalt, TCLP	ND	ND	ND	1
Copper, TCLP	ND	ND	ND	0.65
Iron, TCLP	ND	ND	ND	5
Lead, TCLP	ND	ND	ND	0.0075
Manganese, TCLP	0.78	1.2	0.041	0.15
Nickel, TCLP	ND	ND	ND	0.1
Selenium, TCLP	ND	ND	ND	0.05
Zinc, TCLP	0.074 J	0.028 J	0.035 J	5

Summary Table of ISGS Site No. 3140-38
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	A38-24(0-1)-021017D	A38-25(0-1)-021017	A38-26(0-1)-021017	**Soil Reference Concentrations[A]**
Sample Date	2/10/2017	2/10/2017	2/10/2017	
Location ID	A38-24	A38-25	A38-26	
Depth	0 - 1	0 - 1	0 - 1	
ISGS Site No.	3140-38	3140-38	3140-38	
Parameter				
SPLP Metals (mg/l)				
Arsenic, SPLP	0.056	0.044 J	0.091	0.05
Barium, SPLP	0.41 J	0.55	0.64	2
Beryllium, SPLP	0.007	0.007	0.007	0.004
Cadmium, SPLP	ND	ND	ND	0.005
Chromium, SPLP	0.16	0.19	0.16	0.1
Cobalt, SPLP	0.044	0.045	0.057	1
Copper, SPLP	0.18	0.16	0.23	0.65
Iron, SPLP	160	160	200	5
Lead, SPLP	0.25	0.44	0.1	0.0075
Manganese, SPLP	0.9	0.77	1	0.15
Mercury, SPLP	ND	ND	ND	0.002
Nickel, SPLP	0.18	0.16	0.22	0.1
Zinc, SPLP	0.58	0.61	0.68	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: 500-123630-1
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:
2/17/2017 4:05:23 PM

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

Client Sample ID: A38-1(0-1)-028017
Date Collected: 02/08/17 13:45
Date Received: 02/08/17 17:00

Lab Sample ID: 500-123630-12
Matrix: Solid
Percent Solids: 81.1

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	☼	02/09/17 08:50	02/14/17 15:43	1
Benzene	<1.7		1.7	0.43	ug/Kg	☼	02/09/17 08:50	02/14/17 15:43	1
Bromodichloromethane	<1.7		1.7	0.34	ug/Kg	☼	02/09/17 08:50	02/14/17 15:43	1
Bromoform	<1.7		1.7	0.49	ug/Kg	☼	02/09/17 08:50	02/14/17 15:43	1
Bromomethane	<4.2		4.2	1.6	ug/Kg	☼	02/09/17 08:50	02/14/17 15:43	1
Carbon disulfide	<4.2		4.2	0.88	ug/Kg	☼	02/09/17 08:50	02/14/17 15:43	1
Carbon tetrachloride	<1.7		1.7	0.49	ug/Kg	☼	02/09/17 08:50	02/14/17 15:43	1
Chlorobenzene	<1.7		1.7	0.63	ug/Kg	☼	02/09/17 08:50	02/14/17 15:43	1
Chloroethane	<4.2		4.2	1.3	ug/Kg	☼	02/09/17 08:50	02/14/17 15:43	1
Chloroform	<1.7		1.7	0.59	ug/Kg	☼	02/09/17 08:50	02/14/17 15:43	1
Chloromethane	<4.2		4.2	1.7	ug/Kg	☼	02/09/17 08:50	02/14/17 15:43	1
cis-1,2-Dichloroethene	<1.7		1.7	0.47	ug/Kg	☼	02/09/17 08:50	02/14/17 15:43	1
cis-1,3-Dichloropropene	<1.7		1.7	0.51	ug/Kg	☼	02/09/17 08:50	02/14/17 15:43	1
Dibromochloromethane	<1.7	*	1.7	0.55	ug/Kg	☼	02/09/17 08:50	02/14/17 15:43	1
1,1-Dichloroethane	<1.7		1.7	0.58	ug/Kg	☼	02/09/17 08:50	02/14/17 15:43	1
1,2-Dichloroethane	<4.2		4.2	1.3	ug/Kg	☼	02/09/17 08:50	02/14/17 15:43	1
1,1-Dichloroethene	<1.7		1.7	0.58	ug/Kg	☼	02/09/17 08:50	02/14/17 15:43	1
1,2-Dichloropropane	<1.7		1.7	0.44	ug/Kg	☼	02/09/17 08:50	02/14/17 15:43	1
1,3-Dichloropropene, Total	<1.7		1.7	0.59	ug/Kg	☼	02/09/17 08:50	02/14/17 15:43	1
Ethylbenzene	<1.7		1.7	0.81	ug/Kg	☼	02/09/17 08:50	02/14/17 15:43	1
2-Hexanone	<4.2		4.2	1.3	ug/Kg	☼	02/09/17 08:50	02/14/17 15:43	1
Methylene Chloride	<4.2		4.2	1.7	ug/Kg	☼	02/09/17 08:50	02/14/17 15:43	1
Methyl Ethyl Ketone	<4.2		4.2	1.9	ug/Kg	☼	02/09/17 08:50	02/14/17 15:43	1
methyl isobutyl ketone	<4.2		4.2	1.3	ug/Kg	☼	02/09/17 08:50	02/14/17 15:43	1
Methyl tert-butyl ether	<1.7		1.7	0.50	ug/Kg	☼	02/09/17 08:50	02/14/17 15:43	1
Styrene	<1.7		1.7	0.51	ug/Kg	☼	02/09/17 08:50	02/14/17 15:43	1
1,1,2,2-Tetrachloroethane	<1.7		1.7	0.54	ug/Kg	☼	02/09/17 08:50	02/14/17 15:43	1
Tetrachloroethene	<1.7		1.7	0.58	ug/Kg	☼	02/09/17 08:50	02/14/17 15:43	1
Toluene	<1.7		1.7	0.43	ug/Kg	☼	02/09/17 08:50	02/14/17 15:43	1
trans-1,2-Dichloroethene	<1.7		1.7	0.75	ug/Kg	☼	02/09/17 08:50	02/14/17 15:43	1
trans-1,3-Dichloropropene	<1.7	*	1.7	0.59	ug/Kg	☼	02/09/17 08:50	02/14/17 15:43	1
1,1,1-Trichloroethane	<1.7		1.7	0.57	ug/Kg	☼	02/09/17 08:50	02/14/17 15:43	1
1,1,2-Trichloroethane	<1.7		1.7	0.73	ug/Kg	☼	02/09/17 08:50	02/14/17 15:43	1
Trichloroethene	<1.7		1.7	0.57	ug/Kg	☼	02/09/17 08:50	02/14/17 15:43	1
Vinyl chloride	<1.7		1.7	0.75	ug/Kg	☼	02/09/17 08:50	02/14/17 15:43	1
Xylenes, Total	<3.4		3.4	0.54	ug/Kg	☼	02/09/17 08:50	02/14/17 15:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 120*	*02/09/17 08:50*	*02/14/17 15:43*	*1*
Dibromofluoromethane	*104*		*75 - 120*	*02/09/17 08:50*	*02/14/17 15:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*69 - 134*	*02/09/17 08:50*	*02/14/17 15:43*	*1*
Toluene-d8 (Surr)	*103*		*75 - 123*	*02/09/17 08:50*	*02/14/17 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	<200		200	43	ug/Kg	☼	02/13/17 18:04	02/16/17 17:55	1
1,2-Dichlorobenzene	<200		200	47	ug/Kg	☼	02/13/17 18:04	02/16/17 17:55	1
1,3-Dichlorobenzene	<200		200	44	ug/Kg	☼	02/13/17 18:04	02/16/17 17:55	1
1,4-Dichlorobenzene	<200		200	51	ug/Kg	☼	02/13/17 18:04	02/16/17 17:55	1
2,2'-oxybis[1-chloropropane]	<200		200	46	ug/Kg	☼	02/13/17 18:04	02/16/17 17:55	1

Client Sample ID: A38-1(0-1)-028017
Date Collected: 02/08/17 13:45
Date Received: 02/08/17 17:00

Lab Sample ID: 500-123630-12
Matrix: Solid
Percent Solids: 81.1

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	90	ug/Kg	☼	02/13/17 18:04	02/16/17 17:55	1
2,4,6-Trichlorophenol	<390		390	140	ug/Kg	☼	02/13/17 18:04	02/16/17 17:55	1
2,4-Dichlorophenol	<390		390	94	ug/Kg	☼	02/13/17 18:04	02/16/17 17:55	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	02/13/17 18:04	02/16/17 17:55	1
2,4-Dinitrophenol	<800	*	800	690	ug/Kg	☼	02/13/17 18:04	02/16/17 17:55	1
2,4-Dinitrotoluene	<200		200	63	ug/Kg	☼	02/13/17 18:04	02/16/17 17:55	1
2,6-Dinitrotoluene	<200		200	78	ug/Kg	☼	02/13/17 18:04	02/16/17 17:55	1
2-Chloronaphthalene	<200		200	44	ug/Kg	☼	02/13/17 18:04	02/16/17 17:55	1
2-Chlorophenol	<200		200	67	ug/Kg	☼	02/13/17 18:04	02/16/17 17:55	1
2-Methylnaphthalene	<80		80	7.3	ug/Kg	☼	02/13/17 18:04	02/16/17 17:55	1
2-Methylphenol	<200		200	63	ug/Kg	☼	02/13/17 18:04	02/16/17 17:55	1
2-Nitroaniline	<200		200	53	ug/Kg	☼	02/13/17 18:04	02/16/17 17:55	1
2-Nitrophenol	<390		390	93	ug/Kg	☼	02/13/17 18:04	02/16/17 17:55	1
3 & 4 Methylphenol	<200		200	66	ug/Kg	☼	02/13/17 18:04	02/16/17 17:55	1
3,3'-Dichlorobenzidine	<200		200	55	ug/Kg	☼	02/13/17 18:04	02/16/17 17:55	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	02/13/17 18:04	02/16/17 17:55	1
4,6-Dinitro-2-methylphenol	<800		800	320	ug/Kg	☼	02/13/17 18:04	02/16/17 17:55	1
4-Bromophenyl phenyl ether	<200		200	52	ug/Kg	☼	02/13/17 18:04	02/16/17 17:55	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	02/13/17 18:04	02/16/17 17:55	1
4-Chloroaniline	<800		800	190	ug/Kg	☼	02/13/17 18:04	02/16/17 17:55	1
4-Chlorophenyl phenyl ether	<200		200	46	ug/Kg	☼	02/13/17 18:04	02/16/17 17:55	1
4-Nitroaniline	<390		390	170	ug/Kg	☼	02/13/17 18:04	02/16/17 17:55	1
4-Nitrophenol	<800		800	380	ug/Kg	☼	02/13/17 18:04	02/16/17 17:55	1
Acenaphthene	<39		39	7.1	ug/Kg	☼	02/13/17 18:04	02/16/17 17:55	1
Acenaphthylene	<39		39	5.2	ug/Kg	☼	02/13/17 18:04	02/16/17 17:55	1
Anthracene	<39		39	6.6	ug/Kg	☼	02/13/17 18:04	02/16/17 17:55	1
Benzo[a]anthracene	**30**	**J**	39	5.3	ug/Kg	☼	02/13/17 18:04	02/16/17 17:55	1
Benzo[a]pyrene	**27**	**J ***	39	7.6	ug/Kg	☼	02/13/17 18:04	02/16/17 17:55	1
Benzo[b]fluoranthene	**50**	**	39	8.5	ug/Kg	☼	02/13/17 18:04	02/16/17 17:55	1
Benzo[g,h,i]perylene	**21**	**J ***	39	13	ug/Kg	☼	02/13/17 18:04	02/16/17 17:55	1
Benzo[k]fluoranthene	**33**	**J ***	39	12	ug/Kg	☼	02/13/17 18:04	02/16/17 17:55	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	☼	02/13/17 18:04	02/16/17 17:55	1
Bis(2-chloroethyl)ether	<200		200	59	ug/Kg	☼	02/13/17 18:04	02/16/17 17:55	1
Bis(2-ethylhexyl) phthalate	**89**	**J**	200	72	ug/Kg	☼	02/13/17 18:04	02/16/17 17:55	1
Butyl benzyl phthalate	<200		200	75	ug/Kg	☼	02/13/17 18:04	02/16/17 17:55	1
Carbazole	<200		200	99	ug/Kg	☼	02/13/17 18:04	02/16/17 17:55	1
Chrysene	**36**	**J**	39	11	ug/Kg	☼	02/13/17 18:04	02/16/17 17:55	1
Dibenz(a,h)anthracene	<39	*	39	7.6	ug/Kg	☼	02/13/17 18:04	02/16/17 17:55	1
Dibenzofuran	<200		200	46	ug/Kg	☼	02/13/17 18:04	02/16/17 17:55	1
Diethyl phthalate	<200		200	67	ug/Kg	☼	02/13/17 18:04	02/16/17 17:55	1
Dimethyl phthalate	<200		200	52	ug/Kg	☼	02/13/17 18:04	02/16/17 17:55	1
Di-n-butyl phthalate	<200		200	60	ug/Kg	☼	02/13/17 18:04	02/16/17 17:55	1
Di-n-octyl phthalate	<200		200	64	ug/Kg	☼	02/13/17 18:04	02/16/17 17:55	1
Fluoranthene	**54**		39	7.3	ug/Kg	☼	02/13/17 18:04	02/16/17 17:55	1
Fluorene	<39		39	5.5	ug/Kg	☼	02/13/17 18:04	02/16/17 17:55	1
Hexachlorobenzene	<80		80	9.1	ug/Kg	☼	02/13/17 18:04	02/16/17 17:55	1
Hexachlorobutadiene	<200		200	62	ug/Kg	☼	02/13/17 18:04	02/16/17 17:55	1
Hexachlorocyclopentadiene	<800		800	230	ug/Kg	☼	02/13/17 18:04	02/16/17 17:55	1
Hexachloroethane	<200		200	60	ug/Kg	☼	02/13/17 18:04	02/16/17 17:55	1

Client Sample ID: A38-1(0-1)-028017
Date Collected: 02/08/17 13:45
Date Received: 02/08/17 17:00

Lab Sample ID: 500-123630-12
Matrix: Solid
Percent Solids: 81.1

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	<39	*	39	10	ug/Kg	☼	02/13/17 18:04	02/16/17 17:55	1
Isophorone	<200		200	44	ug/Kg	☼	02/13/17 18:04	02/16/17 17:55	1
Naphthalene	<39		39	6.1	ug/Kg	☼	02/13/17 18:04	02/16/17 17:55	1
Nitrobenzene	<39		39	9.8	ug/Kg	☼	02/13/17 18:04	02/16/17 17:55	1
N-Nitrosodi-n-propylamine	<80		80	48	ug/Kg	☼	02/13/17 18:04	02/16/17 17:55	1
N-Nitrosodiphenylamine	<200		200	47	ug/Kg	☼	02/13/17 18:04	02/16/17 17:55	1
Pentachlorophenol	<800		800	630	ug/Kg	☼	02/13/17 18:04	02/16/17 17:55	1
Phenanthrene	**29**	**J**	39	5.5	ug/Kg	☼	02/13/17 18:04	02/16/17 17:55	1
Phenol	<200		200	88	ug/Kg	☼	02/13/17 18:04	02/16/17 17:55	1
Pyrene	**73**		39	7.8	ug/Kg	☼	02/13/17 18:04	02/16/17 17:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*36*		*25 - 130*	*02/13/17 18:04*	*02/16/17 17:55*	*1*
2-Fluorobiphenyl	*78*		*42 - 115*	*02/13/17 18:04*	*02/16/17 17:55*	*1*
2-Fluorophenol	*80*		*40 - 130*	*02/13/17 18:04*	*02/16/17 17:55*	*1*
Nitrobenzene-d5	*64*		*33 - 124*	*02/13/17 18:04*	*02/16/17 17:55*	*1*
Phenol-d5	*77*		*36 - 123*	*02/13/17 18:04*	*02/16/17 17:55*	*1*
Terphenyl-d14	*153*	*X*	*25 - 150*	*02/13/17 18:04*	*02/16/17 17:55*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/14/17 08:49	02/14/17 17:44	1
Barium	**0.27**	**J**	0.50	0.050	mg/L		02/14/17 08:49	02/14/17 17:44	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/14/17 08:49	02/14/17 17:44	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/14/17 08:49	02/14/17 17:44	1
Chromium	<0.025		0.025	0.010	mg/L		02/14/17 08:49	02/14/17 17:44	1
Cobalt	<0.025		0.025	0.010	mg/L		02/14/17 08:49	02/14/17 17:44	1
Copper	**0.011**	**J**	0.025	0.010	mg/L		02/14/17 08:49	02/14/17 17:44	1
Iron	<0.40		0.40	0.20	mg/L		02/14/17 08:49	02/14/17 17:44	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/14/17 08:49	02/14/17 17:44	1
Manganese	**0.48**		0.025	0.010	mg/L		02/14/17 08:49	02/14/17 17:44	1
Nickel	<0.025		0.025	0.010	mg/L		02/14/17 08:49	02/14/17 17:44	1
Selenium	<0.050		0.050	0.020	mg/L		02/14/17 08:49	02/14/17 17:44	1
Silver	<0.025		0.025	0.010	mg/L		02/14/17 08:49	02/14/17 17:44	1
Zinc	**0.035**	**J**	0.50	0.020	mg/L		02/14/17 08:49	02/14/17 17:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.10**		0.050	0.010	mg/L		02/14/17 14:07	02/15/17 12:08	1
Barium	**0.66**		0.50	0.050	mg/L		02/14/17 14:07	02/15/17 12:08	1
Beryllium	**0.011**		0.0040	0.0040	mg/L		02/14/17 14:07	02/15/17 12:08	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/14/17 14:07	02/15/17 12:08	1
Chromium	**0.22**		0.025	0.010	mg/L		02/14/17 14:07	02/15/17 12:08	1
Cobalt	**0.082**		0.025	0.010	mg/L		02/14/17 14:07	02/15/17 12:08	1
Copper	**0.26**		0.025	0.010	mg/L		02/14/17 14:07	02/15/17 12:08	1
Iron	**250**		0.40	0.20	mg/L		02/14/17 14:07	02/15/17 12:08	1
Lead	**0.42**		0.0075	0.0075	mg/L		02/14/17 14:07	02/15/17 12:08	1
Manganese	**1.5**		0.025	0.010	mg/L		02/14/17 14:07	02/15/17 12:08	1
Nickel	**0.31**		0.025	0.010	mg/L		02/14/17 14:07	02/15/17 12:08	1
Selenium	<0.050		0.050	0.020	mg/L		02/14/17 14:07	02/15/17 12:08	1

Client Sample ID: A38-1(0-1)-028017
Date Collected: 02/08/17 13:45
Date Received: 02/08/17 17:00

Lab Sample ID: 500-123630-12
Matrix: Solid
Percent Solids: 81.1

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		02/14/17 14:07	02/15/17 12:08	1
Zinc	**0.76**		0.50	0.020	mg/L		02/14/17 14:07	02/15/17 12:08	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.24**	**J**	1.1	0.24	mg/Kg	☼	02/11/17 10:34	02/12/17 01:19	1
Arsenic	**6.3**		0.57	0.26	mg/Kg	☼	02/11/17 10:34	02/12/17 01:19	1
Barium	**46**		0.57	0.10	mg/Kg	☼	02/11/17 10:34	02/12/17 01:19	1
Beryllium	**0.62**		0.23	0.049	mg/Kg	☼	02/11/17 10:34	02/12/17 01:19	1
Cadmium	**0.21**		0.11	0.033	mg/Kg	☼	02/11/17 10:34	02/12/17 01:19	1
Calcium	**19000**	**B**	11	3.7	mg/Kg	☼	02/11/17 10:34	02/12/17 01:19	1
Chromium	**16**	**B**	0.57	0.098	mg/Kg	☼	02/11/17 10:34	02/12/17 01:19	1
Cobalt	**13**		0.28	0.064	mg/Kg	☼	02/11/17 10:34	02/12/17 01:19	1
Copper	**21**		0.57	0.12	mg/Kg	☼	02/11/17 10:34	02/12/17 01:19	1
Iron	**18000**	**B**	11	4.4	mg/Kg	☼	02/11/17 10:34	02/12/17 01:19	1
Lead	**56**	**B**	0.28	0.14	mg/Kg	☼	02/11/17 10:34	02/12/17 01:19	1
Magnesium	**11000**	**B**	5.7	2.3	mg/Kg	☼	02/11/17 10:34	02/12/17 01:19	1
Manganese	**390**		0.57	0.11	mg/Kg	☼	02/11/17 10:34	02/12/17 01:19	1
Nickel	**30**		0.57	0.15	mg/Kg	☼	02/11/17 10:34	02/12/17 01:19	1
Potassium	**1400**		28	4.6	mg/Kg	☼	02/11/17 10:34	02/12/17 01:19	1
Selenium	**0.75**		0.57	0.28	mg/Kg	☼	02/11/17 10:34	02/12/17 01:19	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	02/11/17 10:34	02/12/17 01:19	1
Sodium	**1600**		57	7.5	mg/Kg	☼	02/11/17 10:34	02/12/17 01:19	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	02/11/17 10:34	02/12/17 01:19	1
Vanadium	**17**		0.28	0.083	mg/Kg	☼	02/11/17 10:34	02/12/17 01:19	1
Zinc	**66**		1.1	0.36	mg/Kg	☼	02/11/17 10:34	02/12/17 01:19	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		02/14/17 13:00	02/15/17 09:56	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		02/14/17 13:00	02/15/17 10:38	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**18**	**J**	19	9.9	ug/Kg	☼	02/10/17 16:45	02/13/17 12:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.4**		0.2	0.2	SU			02/13/17 14:58	1

Client Sample ID: A38-4(0-1)-028017
Date Collected: 02/08/17 14:30
Date Received: 02/08/17 17:00

Lab Sample ID: 500-123630-15
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	7.2	ug/Kg	☼	02/09/17 08:50	02/14/17 17:00	1
Benzene	<1.7		1.7	0.42	ug/Kg	☼	02/09/17 08:50	02/14/17 17:00	1
Bromodichloromethane	<1.7		1.7	0.34	ug/Kg	☼	02/09/17 08:50	02/14/17 17:00	1
Bromoform	<1.7		1.7	0.49	ug/Kg	☼	02/09/17 08:50	02/14/17 17:00	1
Bromomethane	<4.2		4.2	1.6	ug/Kg	☼	02/09/17 08:50	02/14/17 17:00	1
Carbon disulfide	<4.2		4.2	0.86	ug/Kg	☼	02/09/17 08:50	02/14/17 17:00	1
Carbon tetrachloride	<1.7		1.7	0.48	ug/Kg	☼	02/09/17 08:50	02/14/17 17:00	1
Chlorobenzene	<1.7		1.7	0.61	ug/Kg	☼	02/09/17 08:50	02/14/17 17:00	1
Chloroethane	<4.2		4.2	1.2	ug/Kg	☼	02/09/17 08:50	02/14/17 17:00	1
Chloroform	<1.7		1.7	0.58	ug/Kg	☼	02/09/17 08:50	02/14/17 17:00	1
Chloromethane	<4.2		4.2	1.7	ug/Kg	☼	02/09/17 08:50	02/14/17 17:00	1
cis-1,2-Dichloroethene	<1.7		1.7	0.46	ug/Kg	☼	02/09/17 08:50	02/14/17 17:00	1
cis-1,3-Dichloropropene	<1.7		1.7	0.50	ug/Kg	☼	02/09/17 08:50	02/14/17 17:00	1
Dibromochloromethane	<1.7	*	1.7	0.54	ug/Kg	☼	02/09/17 08:50	02/14/17 17:00	1
1,1-Dichloroethane	<1.7		1.7	0.57	ug/Kg	☼	02/09/17 08:50	02/14/17 17:00	1
1,2-Dichloroethane	<4.2		4.2	1.3	ug/Kg	☼	02/09/17 08:50	02/14/17 17:00	1
1,1-Dichloroethene	<1.7		1.7	0.57	ug/Kg	☼	02/09/17 08:50	02/14/17 17:00	1
1,2-Dichloropropane	<1.7		1.7	0.43	ug/Kg	☼	02/09/17 08:50	02/14/17 17:00	1
1,3-Dichloropropene, Total	<1.7		1.7	0.58	ug/Kg	☼	02/09/17 08:50	02/14/17 17:00	1
Ethylbenzene	<1.7		1.7	0.80	ug/Kg	☼	02/09/17 08:50	02/14/17 17:00	1
2-Hexanone	<4.2		4.2	1.3	ug/Kg	☼	02/09/17 08:50	02/14/17 17:00	1
Methylene Chloride	<4.2		4.2	1.6	ug/Kg	☼	02/09/17 08:50	02/14/17 17:00	1
Methyl Ethyl Ketone	<4.2		4.2	1.8	ug/Kg	☼	02/09/17 08:50	02/14/17 17:00	1
methyl isobutyl ketone	<4.2		4.2	1.2	ug/Kg	☼	02/09/17 08:50	02/14/17 17:00	1
Methyl tert-butyl ether	<1.7		1.7	0.49	ug/Kg	☼	02/09/17 08:50	02/14/17 17:00	1
Styrene	<1.7		1.7	0.50	ug/Kg	☼	02/09/17 08:50	02/14/17 17:00	1
1,1,2,2-Tetrachloroethane	<1.7		1.7	0.53	ug/Kg	☼	02/09/17 08:50	02/14/17 17:00	1
Tetrachloroethene	<1.7		1.7	0.57	ug/Kg	☼	02/09/17 08:50	02/14/17 17:00	1
Toluene	<1.7		1.7	0.42	ug/Kg	☼	02/09/17 08:50	02/14/17 17:00	1
trans-1,2-Dichloroethene	<1.7		1.7	0.74	ug/Kg	☼	02/09/17 08:50	02/14/17 17:00	1
trans-1,3-Dichloropropene	<1.7	*	1.7	0.58	ug/Kg	☼	02/09/17 08:50	02/14/17 17:00	1
1,1,1-Trichloroethane	<1.7		1.7	0.56	ug/Kg	☼	02/09/17 08:50	02/14/17 17:00	1
1,1,2-Trichloroethane	<1.7		1.7	0.71	ug/Kg	☼	02/09/17 08:50	02/14/17 17:00	1
Trichloroethene	<1.7		1.7	0.56	ug/Kg	☼	02/09/17 08:50	02/14/17 17:00	1
Vinyl chloride	<1.7		1.7	0.74	ug/Kg	☼	02/09/17 08:50	02/14/17 17:00	1
Xylenes, Total	<3.3		3.3	0.53	ug/Kg	☼	02/09/17 08:50	02/14/17 17:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 120*	*02/09/17 08:50*	*02/14/17 17:00*	*1*
Dibromofluoromethane	*107*		*75 - 120*	*02/09/17 08:50*	*02/14/17 17:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*69 - 134*	*02/09/17 08:50*	*02/14/17 17:00*	*1*
Toluene-d8 (Surr)	*104*		*75 - 123*	*02/09/17 08:50*	*02/14/17 17:00*	*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	☼	02/13/17 18:04	02/14/17 15:53	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	02/13/17 18:04	02/14/17 15:53	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	02/13/17 18:04	02/14/17 15:53	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	02/13/17 18:04	02/14/17 15:53	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	02/13/17 18:04	02/14/17 15:53	1

Client Sample ID: A38-4(0-1)-028017
Date Collected: 02/08/17 14:30
Date Received: 02/08/17 17:00

Lab Sample ID: 500-123630-15
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	<370		370	86	ug/Kg	☼	02/13/17 18:04	02/14/17 15:53	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	02/13/17 18:04	02/14/17 15:53	1
2,4-Dichlorophenol	<370		370	89	ug/Kg	☼	02/13/17 18:04	02/14/17 15:53	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	02/13/17 18:04	02/14/17 15:53	1
2,4-Dinitrophenol	<760	*	760	660	ug/Kg	☼	02/13/17 18:04	02/14/17 15:53	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	02/13/17 18:04	02/14/17 15:53	1
2,6-Dinitrotoluene	<190		190	74	ug/Kg	☼	02/13/17 18:04	02/14/17 15:53	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	02/13/17 18:04	02/14/17 15:53	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	02/13/17 18:04	02/14/17 15:53	1
2-Methylnaphthalene	<76		76	6.9	ug/Kg	☼	02/13/17 18:04	02/14/17 15:53	1
2-Methylphenol	<190		190	60	ug/Kg	☼	02/13/17 18:04	02/14/17 15:53	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	02/13/17 18:04	02/14/17 15:53	1
2-Nitrophenol	<370		370	89	ug/Kg	☼	02/13/17 18:04	02/14/17 15:53	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	02/13/17 18:04	02/14/17 15:53	1
3,3'-Dichlorobenzidine	<190		190	53	ug/Kg	☼	02/13/17 18:04	02/14/17 15:53	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	02/13/17 18:04	02/14/17 15:53	1
4,6-Dinitro-2-methylphenol	<760		760	300	ug/Kg	☼	02/13/17 18:04	02/14/17 15:53	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	02/13/17 18:04	02/14/17 15:53	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	02/13/17 18:04	02/14/17 15:53	1
4-Chloroaniline	<760		760	180	ug/Kg	☼	02/13/17 18:04	02/14/17 15:53	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	02/13/17 18:04	02/14/17 15:53	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	02/13/17 18:04	02/14/17 15:53	1
4-Nitrophenol	<760		760	360	ug/Kg	☼	02/13/17 18:04	02/14/17 15:53	1
Acenaphthene	<37		37	6.8	ug/Kg	☼	02/13/17 18:04	02/14/17 15:53	1
Acenaphthylene	<37		37	5.0	ug/Kg	☼	02/13/17 18:04	02/14/17 15:53	1
Anthracene	<37		37	6.3	ug/Kg	☼	02/13/17 18:04	02/14/17 15:53	1
Benzo[a]anthracene	**16**	**J**	37	5.1	ug/Kg	☼	02/13/17 18:04	02/14/17 15:53	1
Benzo[a]pyrene	**23**	**J**	37	7.3	ug/Kg	☼	02/13/17 18:04	02/14/17 15:53	1
Benzo[b]fluoranthene	**28**	**J**	37	8.1	ug/Kg	☼	02/13/17 18:04	02/14/17 15:53	1
Benzo[g,h,i]perylene	<37		37	12	ug/Kg	☼	02/13/17 18:04	02/14/17 15:53	1
Benzo[k]fluoranthene	**11**	**J**	37	11	ug/Kg	☼	02/13/17 18:04	02/14/17 15:53	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	02/13/17 18:04	02/14/17 15:53	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	02/13/17 18:04	02/14/17 15:53	1
Bis(2-ethylhexyl) phthalate	**200**		190	69	ug/Kg	☼	02/13/17 18:04	02/14/17 15:53	1
Butyl benzyl phthalate	<190		190	72	ug/Kg	☼	02/13/17 18:04	02/14/17 15:53	1
Carbazole	<190		190	94	ug/Kg	☼	02/13/17 18:04	02/14/17 15:53	1
Chrysene	**18**	**J**	37	10	ug/Kg	☼	02/13/17 18:04	02/14/17 15:53	1
Dibenz(a,h)anthracene	<37		37	7.3	ug/Kg	☼	02/13/17 18:04	02/14/17 15:53	1
Dibenzofuran	<190		190	44	ug/Kg	☼	02/13/17 18:04	02/14/17 15:53	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	02/13/17 18:04	02/14/17 15:53	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	02/13/17 18:04	02/14/17 15:53	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	02/13/17 18:04	02/14/17 15:53	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	02/13/17 18:04	02/14/17 15:53	1
Fluoranthene	**30**	**J**	37	7.0	ug/Kg	☼	02/13/17 18:04	02/14/17 15:53	1
Fluorene	<37		37	5.3	ug/Kg	☼	02/13/17 18:04	02/14/17 15:53	1
Hexachlorobenzene	<76		76	8.7	ug/Kg	☼	02/13/17 18:04	02/14/17 15:53	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	02/13/17 18:04	02/14/17 15:53	1
Hexachlorocyclopentadiene	<760		760	220	ug/Kg	☼	02/13/17 18:04	02/14/17 15:53	1
Hexachloroethane	<190		190	57	ug/Kg	☼	02/13/17 18:04	02/14/17 15:53	1

Client Sample ID: A38-4(0-1)-028017
Date Collected: 02/08/17 14:30
Date Received: 02/08/17 17:00

Lab Sample ID: 500-123630-15
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	<37		37	9.8	ug/Kg	☼	02/13/17 18:04	02/14/17 15:53	1
Isophorone	<190		190	42	ug/Kg	☼	02/13/17 18:04	02/14/17 15:53	1
Naphthalene	<37		37	5.8	ug/Kg	☼	02/13/17 18:04	02/14/17 15:53	1
Nitrobenzene	<37		37	9.4	ug/Kg	☼	02/13/17 18:04	02/14/17 15:53	1
N-Nitrosodi-n-propylamine	<76		76	46	ug/Kg	☼	02/13/17 18:04	02/14/17 15:53	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	02/13/17 18:04	02/14/17 15:53	1
Pentachlorophenol	<760		760	600	ug/Kg	☼	02/13/17 18:04	02/14/17 15:53	1
Phenanthrene	**17**	**J**	37	5.2	ug/Kg	☼	02/13/17 18:04	02/14/17 15:53	1
Phenol	<190		190	84	ug/Kg	☼	02/13/17 18:04	02/14/17 15:53	1
Pyrene	**27**	**J**	37	7.5	ug/Kg	☼	02/13/17 18:04	02/14/17 15:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*55*		*25 - 130*	*02/13/17 18:04*	*02/14/17 15:53*	*1*
2-Fluorobiphenyl	*64*		*42 - 115*	*02/13/17 18:04*	*02/14/17 15:53*	*1*
2-Fluorophenol	*71*		*40 - 130*	*02/13/17 18:04*	*02/14/17 15:53*	*1*
Nitrobenzene-d5	*71*		*33 - 124*	*02/13/17 18:04*	*02/14/17 15:53*	*1*
Phenol-d5	*75*		*36 - 123*	*02/13/17 18:04*	*02/14/17 15:53*	*1*
Terphenyl-d14	*92*		*25 - 150*	*02/13/17 18:04*	*02/14/17 15:53*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.014**	**J**	0.050	0.010	mg/L		02/14/17 08:49	02/14/17 18:05	1
Barium	**0.19**	**J**	0.50	0.050	mg/L		02/14/17 08:49	02/14/17 18:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/14/17 08:49	02/14/17 18:05	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/14/17 08:49	02/14/17 18:05	1
Chromium	<0.025		0.025	0.010	mg/L		02/14/17 08:49	02/14/17 18:05	1
Cobalt	<0.025		0.025	0.010	mg/L		02/14/17 08:49	02/14/17 18:05	1
Copper	<0.025		0.025	0.010	mg/L		02/14/17 08:49	02/14/17 18:05	1
Iron	**0.37**	**J**	0.40	0.20	mg/L		02/14/17 08:49	02/14/17 18:05	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/14/17 08:49	02/14/17 18:05	1
Manganese	**0.19**		0.025	0.010	mg/L		02/14/17 08:49	02/14/17 18:05	1
Nickel	<0.025		0.025	0.010	mg/L		02/14/17 08:49	02/14/17 18:05	1
Selenium	<0.050		0.050	0.020	mg/L		02/14/17 08:49	02/14/17 18:05	1
Silver	<0.025		0.025	0.010	mg/L		02/14/17 08:49	02/14/17 18:05	1
Zinc	**0.021**	**J**	0.50	0.020	mg/L		02/14/17 08:49	02/14/17 18:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.096**		0.050	0.010	mg/L		02/14/17 14:07	02/15/17 12:21	1
Barium	**0.62**		0.50	0.050	mg/L		02/14/17 14:07	02/15/17 12:21	1
Beryllium	**0.0099**		0.0040	0.0040	mg/L		02/14/17 14:07	02/15/17 12:21	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/14/17 14:07	02/15/17 12:21	1
Chromium	**0.23**		0.025	0.010	mg/L		02/14/17 14:07	02/15/17 12:21	1
Cobalt	**0.078**		0.025	0.010	mg/L		02/14/17 14:07	02/15/17 12:21	1
Copper	**0.26**		0.025	0.010	mg/L		02/14/17 14:07	02/15/17 12:21	1
Iron	**240**		0.40	0.20	mg/L		02/14/17 14:07	02/15/17 12:21	1
Lead	**0.39**		0.0075	0.0075	mg/L		02/14/17 14:07	02/15/17 12:21	1
Manganese	**1.6**		0.025	0.010	mg/L		02/14/17 14:07	02/15/17 12:21	1
Nickel	**0.26**		0.025	0.010	mg/L		02/14/17 14:07	02/15/17 12:21	1
Selenium	<0.050		0.050	0.020	mg/L		02/14/17 14:07	02/15/17 12:21	1

Client Sample ID: A38-4(0-1)-028017
Date Collected: 02/08/17 14:30
Date Received: 02/08/17 17:00

Lab Sample ID: 500-123630-15
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		02/14/17 14:07	02/15/17 12:21	1
Zinc	**0.74**		0.50	0.020	mg/L		02/14/17 14:07	02/15/17 12:21	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	☼	02/11/17 10:34	02/12/17 01:35	1
Arsenic	**6.7**		0.59	0.27	mg/Kg	☼	02/11/17 10:34	02/12/17 01:35	1
Barium	**46**		0.59	0.11	mg/Kg	☼	02/11/17 10:34	02/12/17 01:35	1
Beryllium	**0.55**		0.23	0.051	mg/Kg	☼	02/11/17 10:34	02/12/17 01:35	1
Cadmium	**0.19**		0.12	0.034	mg/Kg	☼	02/11/17 10:34	02/12/17 01:35	1
Calcium	**4400**	**B**	12	3.8	mg/Kg	☼	02/11/17 10:34	02/12/17 01:35	1
Chromium	**15**	**B**	0.59	0.10	mg/Kg	☼	02/11/17 10:34	02/12/17 01:35	1
Cobalt	**11**		0.29	0.066	mg/Kg	☼	02/11/17 10:34	02/12/17 01:35	1
Copper	**19**		0.59	0.13	mg/Kg	☼	02/11/17 10:34	02/12/17 01:35	1
Iron	**18000**	**B**	12	4.5	mg/Kg	☼	02/11/17 10:34	02/12/17 01:35	1
Lead	**66**	**B**	0.29	0.15	mg/Kg	☼	02/11/17 10:34	02/12/17 01:35	1
Magnesium	**4700**	**B**	5.9	2.4	mg/Kg	☼	02/11/17 10:34	02/12/17 01:35	1
Manganese	**360**		0.59	0.12	mg/Kg	☼	02/11/17 10:34	02/12/17 01:35	1
Nickel	**23**		0.59	0.16	mg/Kg	☼	02/11/17 10:34	02/12/17 01:35	1
Potassium	**1100**		29	4.8	mg/Kg	☼	02/11/17 10:34	02/12/17 01:35	1
Selenium	**1.2**		0.59	0.29	mg/Kg	☼	02/11/17 10:34	02/12/17 01:35	1
Silver	<0.29		0.29	0.069	mg/Kg	☼	02/11/17 10:34	02/12/17 01:35	1
Sodium	**1900**		59	7.7	mg/Kg	☼	02/11/17 10:34	02/12/17 01:35	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	02/11/17 10:34	02/12/17 01:35	1
Vanadium	**18**		0.29	0.086	mg/Kg	☼	02/11/17 10:34	02/12/17 01:35	1
Zinc	**65**		1.2	0.37	mg/Kg	☼	02/11/17 10:34	02/12/17 01:35	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		02/14/17 13:00	02/15/17 10:00	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		02/14/17 13:00	02/15/17 10:43	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**39**		17	9.1	ug/Kg	☼	02/10/17 16:45	02/13/17 12:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.5**		0.2	0.2	SU			02/13/17 15:15	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
*	LCS or LCSD is outside acceptance limits.
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

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.
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: 500-123630-1

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 ENVIRONMENTA

2417 Bond Street, University Park, IL
Phone: 708.534.5200 Fax: 708.5

500-123630 COC

(optional)

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

(optional)

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

Chain of Custody Record

Lab Job #: 500-123630
Chain of Custody Number:
Page 5 of 6
Temperature °C of Cooler: 4.3 3.4 2.2 2.9 4.0 3.6

Client	Client Project #
Weston Solution	
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	VOCs	SVOCs	Total Metals	TCLP/SPLP Metals	pH
1		A44-9(0-1)-020817	2/8/17	10:45	6	SO					
2		A44-10(0-1)-020817		11:00							
3		A44-11(0-1)-020817		11:10							
4		A44-12(0-1)-020817		11:30							
5		R43-1(0-1)-020817		12:15							
6		R43-1(0-1)-020817D		12:15							
7		R43-2(0-1)-020817		12:45							
8		M42-1(0-1)-020817		12:55							
9		M42-2(0-1)-020817		13:10							
10		R41-1(0-1)-020817		13:20							

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

Comments

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
Andrew Tay	Weston	2/8/17	1700	[signature]	TA	2/8/17	1700
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

Report To (optional)
Contact: S. Balasubkumar
Company: Weston Solutions
Address: 300 Plaza Cir, Ste 202
Address: Mundelein, IL 60060
Phone: 224-864-7200
Fax:
E-Mail:

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

Chain of Custody Record

Lab Job #: 500-123630
Chain of Custody Number:
Page 6 of 6
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

Preservative:
Parameter: VOCs, SVOCs, TOTAL METALS, TCLP/SPLP METALS, pH

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	VOCs	SVOCs	TOTAL METALS	TCLP/SPLP METALS	pH					Comments
11		R41-2 (0-1)-020817	2/8/17	13:30	6	SO	X	X	X	X	X					
12		A38-1(0-1)-020817	↓	13:45	↓	↓	X	X	X	X	X					
13		A38-2(0-1)-020817	↓	14:00	↓	↓	X	X	X	X	X					
14		A38-3(0-1)-020817	↓	14:15	↓	↓	X	X	X	X	X					
15		A38-4(0-1)-020817	↓	14:30	↓	↓	X	X	X	X	X					
16		A38-5(0-1)-020817	↓	14:45	↓	↓	X	X	X	X	X					
17		A38-5(0-1)-020817D	↓	14:45	↓	↓	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 ☒ 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	2/8/17	1700	[signature]	TA	2/8/17	1700

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)

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: A38-8(0-1)-021017
Date Collected: 02/10/17 09:00
Date Received: 02/10/17 16:30

Lab Sample ID: 500-123757-4
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	<15		15	6.7	ug/Kg	☼	02/11/17 14:38	02/15/17 14:26	1
Benzene	<1.5		1.5	0.39	ug/Kg	☼	02/11/17 14:38	02/15/17 14:26	1
Bromodichloromethane	<1.5		1.5	0.31	ug/Kg	☼	02/11/17 14:38	02/15/17 14:26	1
Bromoform	<1.5		1.5	0.45	ug/Kg	☼	02/11/17 14:38	02/15/17 14:26	1
Bromomethane	<3.9		3.9	1.5	ug/Kg	☼	02/11/17 14:38	02/15/17 14:26	1
Carbon disulfide	<3.9		3.9	0.80	ug/Kg	☼	02/11/17 14:38	02/15/17 14:26	1
Carbon tetrachloride	<1.5		1.5	0.45	ug/Kg	☼	02/11/17 14:38	02/15/17 14:26	1
Chlorobenzene	<1.5		1.5	0.57	ug/Kg	☼	02/11/17 14:38	02/15/17 14:26	1
Chloroethane	<3.9		3.9	1.1	ug/Kg	☼	02/11/17 14:38	02/15/17 14:26	1
Chloroform	<1.5		1.5	0.54	ug/Kg	☼	02/11/17 14:38	02/15/17 14:26	1
Chloromethane	<3.9		3.9	1.5	ug/Kg	☼	02/11/17 14:38	02/15/17 14:26	1
cis-1,2-Dichloroethene	<1.5		1.5	0.43	ug/Kg	☼	02/11/17 14:38	02/15/17 14:26	1
cis-1,3-Dichloropropene	<1.5		1.5	0.46	ug/Kg	☼	02/11/17 14:38	02/15/17 14:26	1
Dibromochloromethane	<1.5		1.5	0.50	ug/Kg	☼	02/11/17 14:38	02/15/17 14:26	1
1,1-Dichloroethane	<1.5		1.5	0.53	ug/Kg	☼	02/11/17 14:38	02/15/17 14:26	1
1,2-Dichloroethane	<3.9		3.9	1.2	ug/Kg	☼	02/11/17 14:38	02/15/17 14:26	1
1,1-Dichloroethene	<1.5		1.5	0.53	ug/Kg	☼	02/11/17 14:38	02/15/17 14:26	1
1,2-Dichloropropane	<1.5		1.5	0.40	ug/Kg	☼	02/11/17 14:38	02/15/17 14:26	1
1,3-Dichloropropene, Total	<1.5		1.5	0.54	ug/Kg	☼	02/11/17 14:38	02/15/17 14:26	1
Ethylbenzene	<1.5		1.5	0.74	ug/Kg	☼	02/11/17 14:38	02/15/17 14:26	1
2-Hexanone	<3.9		3.9	1.2	ug/Kg	☼	02/11/17 14:38	02/15/17 14:26	1
Methylene Chloride	<3.9		3.9	1.5	ug/Kg	☼	02/11/17 14:38	02/15/17 14:26	1
Methyl Ethyl Ketone	<3.9		3.9	1.7	ug/Kg	☼	02/11/17 14:38	02/15/17 14:26	1
methyl isobutyl ketone	<3.9		3.9	1.1	ug/Kg	☼	02/11/17 14:38	02/15/17 14:26	1
Methyl tert-butyl ether	<1.5		1.5	0.45	ug/Kg	☼	02/11/17 14:38	02/15/17 14:26	1
Styrene	<1.5		1.5	0.47	ug/Kg	☼	02/11/17 14:38	02/15/17 14:26	1
1,1,2,2-Tetrachloroethane	<1.5		1.5	0.49	ug/Kg	☼	02/11/17 14:38	02/15/17 14:26	1
Tetrachloroethene	<1.5		1.5	0.53	ug/Kg	☼	02/11/17 14:38	02/15/17 14:26	1
Toluene	<1.5		1.5	0.39	ug/Kg	☼	02/11/17 14:38	02/15/17 14:26	1
trans-1,2-Dichloroethene	<1.5		1.5	0.68	ug/Kg	☼	02/11/17 14:38	02/15/17 14:26	1
trans-1,3-Dichloropropene	<1.5		1.5	0.54	ug/Kg	☼	02/11/17 14:38	02/15/17 14:26	1
1,1,1-Trichloroethane	<1.5		1.5	0.52	ug/Kg	☼	02/11/17 14:38	02/15/17 14:26	1
1,1,2-Trichloroethane	<1.5		1.5	0.66	ug/Kg	☼	02/11/17 14:38	02/15/17 14:26	1
Trichloroethene	<1.5		1.5	0.52	ug/Kg	☼	02/11/17 14:38	02/15/17 14:26	1
Vinyl chloride	<1.5		1.5	0.68	ug/Kg	☼	02/11/17 14:38	02/15/17 14:26	1
Xylenes, Total	<3.1		3.1	0.49	ug/Kg	☼	02/11/17 14:38	02/15/17 14:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 120*	*02/11/17 14:38*	*02/15/17 14:26*	*1*
Dibromofluoromethane	*98*		*75 - 120*	*02/11/17 14:38*	*02/15/17 14:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*69 - 134*	*02/11/17 14:38*	*02/15/17 14:26*	*1*
Toluene-d8 (Surr)	*109*		*75 - 123*	*02/11/17 14:38*	*02/15/17 14:26*	*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	☼	02/16/17 06:59	02/20/17 14:53	1
1,2-Dichlorobenzene	<200		200	47	ug/Kg	☼	02/16/17 06:59	02/20/17 14:53	1
1,3-Dichlorobenzene	<200		200	44	ug/Kg	☼	02/16/17 06:59	02/20/17 14:53	1
1,4-Dichlorobenzene	<200		200	50	ug/Kg	☼	02/16/17 06:59	02/20/17 14:53	1
2,2'-oxybis[1-chloropropane]	<200		200	46	ug/Kg	☼	02/16/17 06:59	02/20/17 14:53	1

Client Sample ID: A38-8(0-1)-021017
Date Collected: 02/10/17 09:00
Date Received: 02/10/17 16:30

Lab Sample ID: 500-123757-4
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	<390		390	90	ug/Kg	☼	02/16/17 06:59	02/20/17 14:53	1
2,4,6-Trichlorophenol	<390		390	140	ug/Kg	☼	02/16/17 06:59	02/20/17 14:53	1
2,4-Dichlorophenol	<390		390	94	ug/Kg	☼	02/16/17 06:59	02/20/17 14:53	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	02/16/17 06:59	02/20/17 14:53	1
2,4-Dinitrophenol	<790		790	690	ug/Kg	☼	02/16/17 06:59	02/20/17 14:53	1
2,4-Dinitrotoluene	<200		200	63	ug/Kg	☼	02/16/17 06:59	02/20/17 14:53	1
2,6-Dinitrotoluene	<200		200	77	ug/Kg	☼	02/16/17 06:59	02/20/17 14:53	1
2-Chloronaphthalene	<200		200	44	ug/Kg	☼	02/16/17 06:59	02/20/17 14:53	1
2-Chlorophenol	<200		200	67	ug/Kg	☼	02/16/17 06:59	02/20/17 14:53	1
2-Methylnaphthalene	<79		79	7.2	ug/Kg	☼	02/16/17 06:59	02/20/17 14:53	1
2-Methylphenol	<200		200	63	ug/Kg	☼	02/16/17 06:59	02/20/17 14:53	1
2-Nitroaniline	<200		200	53	ug/Kg	☼	02/16/17 06:59	02/20/17 14:53	1
2-Nitrophenol	<390		390	93	ug/Kg	☼	02/16/17 06:59	02/20/17 14:53	1
3 & 4 Methylphenol	<200		200	66	ug/Kg	☼	02/16/17 06:59	02/20/17 14:53	1
3,3'-Dichlorobenzidine	<200		200	55	ug/Kg	☼	02/16/17 06:59	02/20/17 14:53	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	02/16/17 06:59	02/20/17 14:53	1
4,6-Dinitro-2-methylphenol	<790		790	320	ug/Kg	☼	02/16/17 06:59	02/20/17 14:53	1
4-Bromophenyl phenyl ether	<200		200	52	ug/Kg	☼	02/16/17 06:59	02/20/17 14:53	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	02/16/17 06:59	02/20/17 14:53	1
4-Chloroaniline	<790		790	180	ug/Kg	☼	02/16/17 06:59	02/20/17 14:53	1
4-Chlorophenyl phenyl ether	<200		200	46	ug/Kg	☼	02/16/17 06:59	02/20/17 14:53	1
4-Nitroaniline	<390		390	160	ug/Kg	☼	02/16/17 06:59	02/20/17 14:53	1
4-Nitrophenol	<790		790	370	ug/Kg	☼	02/16/17 06:59	02/20/17 14:53	1
Acenaphthene	<39		39	7.1	ug/Kg	☼	02/16/17 06:59	02/20/17 14:53	1
Acenaphthylene	<39		39	5.2	ug/Kg	☼	02/16/17 06:59	02/20/17 14:53	1
Anthracene	<39		39	6.6	ug/Kg	☼	02/16/17 06:59	02/20/17 14:53	1
Benzo[a]anthracene	<39		39	5.3	ug/Kg	☼	02/16/17 06:59	02/20/17 14:53	1
Benzo[a]pyrene	**16**	**J ***	39	7.6	ug/Kg	☼	02/16/17 06:59	02/20/17 14:53	1
Benzo[b]fluoranthene	**24**	**J ***	39	8.5	ug/Kg	☼	02/16/17 06:59	02/20/17 14:53	1
Benzo[g,h,i]perylene	<39	*	39	13	ug/Kg	☼	02/16/17 06:59	02/20/17 14:53	1
Benzo[k]fluoranthene	<39	*	39	12	ug/Kg	☼	02/16/17 06:59	02/20/17 14:53	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	☼	02/16/17 06:59	02/20/17 14:53	1
Bis(2-chloroethyl)ether	<200		200	59	ug/Kg	☼	02/16/17 06:59	02/20/17 14:53	1
Bis(2-ethylhexyl) phthalate	<200		200	72	ug/Kg	☼	02/16/17 06:59	02/20/17 14:53	1
Butyl benzyl phthalate	<200		200	75	ug/Kg	☼	02/16/17 06:59	02/20/17 14:53	1
Carbazole	<200	*	200	98	ug/Kg	☼	02/16/17 06:59	02/20/17 14:53	1
Chrysene	<39		39	11	ug/Kg	☼	02/16/17 06:59	02/20/17 14:53	1
Dibenz(a,h)anthracene	<39	*	39	7.6	ug/Kg	☼	02/16/17 06:59	02/20/17 14:53	1
Dibenzofuran	<200		200	46	ug/Kg	☼	02/16/17 06:59	02/20/17 14:53	1
Diethyl phthalate	<200		200	67	ug/Kg	☼	02/16/17 06:59	02/20/17 14:53	1
Dimethyl phthalate	<200		200	51	ug/Kg	☼	02/16/17 06:59	02/20/17 14:53	1
Di-n-butyl phthalate	<200		200	60	ug/Kg	☼	02/16/17 06:59	02/20/17 14:53	1
Di-n-octyl phthalate	<200		200	64	ug/Kg	☼	02/16/17 06:59	02/20/17 14:53	1
Fluoranthene	**19**	**J**	39	7.3	ug/Kg	☼	02/16/17 06:59	02/20/17 14:53	1
Fluorene	<39		39	5.5	ug/Kg	☼	02/16/17 06:59	02/20/17 14:53	1
Hexachlorobenzene	<79		79	9.1	ug/Kg	☼	02/16/17 06:59	02/20/17 14:53	1
Hexachlorobutadiene	<200		200	62	ug/Kg	☼	02/16/17 06:59	02/20/17 14:53	1
Hexachlorocyclopentadiene	<790		790	230	ug/Kg	☼	02/16/17 06:59	02/20/17 14:53	1
Hexachloroethane	<200		200	60	ug/Kg	☼	02/16/17 06:59	02/20/17 14:53	1

Client Sample ID: A38-8(0-1)-021017
Date Collected: 02/10/17 09:00
Date Received: 02/10/17 16:30

Lab Sample ID: 500-123757-4
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	<39	*	39	10	ug/Kg	☼	02/16/17 06:59	02/20/17 14:53	1
Isophorone	<200		200	44	ug/Kg	☼	02/16/17 06:59	02/20/17 14:53	1
Naphthalene	<39		39	6.1	ug/Kg	☼	02/16/17 06:59	02/20/17 14:53	1
Nitrobenzene	<39		39	9.8	ug/Kg	☼	02/16/17 06:59	02/20/17 14:53	1
N-Nitrosodi-n-propylamine	<79		79	48	ug/Kg	☼	02/16/17 06:59	02/20/17 14:53	1
N-Nitrosodiphenylamine	<200		200	46	ug/Kg	☼	02/16/17 06:59	02/20/17 14:53	1
Pentachlorophenol	<790		790	630	ug/Kg	☼	02/16/17 06:59	02/20/17 14:53	1
Phenanthrene	**10**	**J**	39	5.5	ug/Kg	☼	02/16/17 06:59	02/20/17 14:53	1
Phenol	<200		200	87	ug/Kg	☼	02/16/17 06:59	02/20/17 14:53	1
Pyrene	**23**	**J**	39	7.8	ug/Kg	☼	02/16/17 06:59	02/20/17 14:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*111*		*25 - 130*	*02/16/17 06:59*	*02/20/17 14:53*	*1*
2-Fluorobiphenyl	*83*		*42 - 115*	*02/16/17 06:59*	*02/20/17 14:53*	*1*
2-Fluorophenol	*91*		*40 - 130*	*02/16/17 06:59*	*02/20/17 14:53*	*1*
Nitrobenzene-d5	*78*		*33 - 124*	*02/16/17 06:59*	*02/20/17 14:53*	*1*
Phenol-d5	*88*		*36 - 123*	*02/16/17 06:59*	*02/20/17 14:53*	*1*
Terphenyl-d14	*147*		*25 - 150*	*02/16/17 06:59*	*02/20/17 14:53*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/16/17 08:50	02/16/17 17:33	1
Barium	**0.24**	**J**	0.50	0.050	mg/L		02/16/17 08:50	02/16/17 17:33	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/16/17 08:50	02/16/17 17:33	1
Cadmium	**0.0028**	**J**	0.0050	0.0020	mg/L		02/16/17 08:50	02/16/17 17:33	1
Chromium	<0.025		0.025	0.010	mg/L		02/16/17 08:50	02/16/17 17:33	1
Cobalt	<0.025		0.025	0.010	mg/L		02/16/17 08:50	02/16/17 17:33	1
Copper	**0.013**	**J**	0.025	0.010	mg/L		02/16/17 08:50	02/16/17 17:33	1
Iron	**0.25**	**J**	0.40	0.20	mg/L		02/16/17 08:50	02/16/17 17:33	1
Lead	**0.012**		0.0075	0.0075	mg/L		02/16/17 08:50	02/16/17 17:33	1
Manganese	**1.5**		0.025	0.010	mg/L		02/16/17 08:50	02/16/17 17:33	1
Nickel	<0.025		0.025	0.010	mg/L		02/16/17 08:50	02/16/17 17:33	1
Selenium	<0.050		0.050	0.020	mg/L		02/16/17 08:50	02/16/17 17:33	1
Silver	<0.025		0.025	0.010	mg/L		02/16/17 08:50	02/16/17 17:33	1
Zinc	**0.049**	**J**	0.50	0.020	mg/L		02/16/17 08:50	02/16/17 17:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.081**		0.050	0.010	mg/L		02/16/17 14:03	02/18/17 18:14	1
Barium	**0.50**		0.50	0.050	mg/L		02/16/17 14:03	02/18/17 18:14	1
Beryllium	**0.0084**		0.0040	0.0040	mg/L		02/16/17 14:03	02/18/17 18:14	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/16/17 14:03	02/18/17 18:14	1
Chromium	**0.21**		0.025	0.010	mg/L		02/16/17 14:03	02/18/17 18:14	1
Cobalt	**0.070**		0.025	0.010	mg/L		02/16/17 14:03	02/18/17 18:14	1
Copper	**0.22**		0.025	0.010	mg/L		02/16/17 14:03	02/18/17 18:14	1
Iron	**210**		0.40	0.20	mg/L		02/16/17 14:03	02/18/17 18:14	1
Lead	**0.39**		0.0075	0.0075	mg/L		02/16/17 14:03	02/18/17 18:14	1
Manganese	**1.3**		0.025	0.010	mg/L		02/16/17 14:03	02/18/17 18:14	1
Nickel	**0.22**		0.025	0.010	mg/L		02/16/17 14:03	02/18/17 18:14	1
Selenium	<0.050		0.050	0.020	mg/L		02/16/17 14:03	02/18/17 18:14	1

Client Sample ID: A38-8(0-1)-021017
Date Collected: 02/10/17 09:00
Date Received: 02/10/17 16:30

Lab Sample ID: 500-123757-4
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		02/16/17 14:03	02/18/17 18:14	1
Zinc	**0.65**		0.50	0.020	mg/L		02/16/17 14:03	02/18/17 18:14	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 17:05	1
Arsenic	**9.4**		0.57	0.27	mg/Kg	☼	02/16/17 15:03	02/17/17 17:05	1
Barium	**46**		0.57	0.11	mg/Kg	☼	02/16/17 15:03	02/17/17 17:05	1
Beryllium	**0.60**		0.23	0.050	mg/Kg	☼	02/16/17 15:03	02/17/17 17:05	1
Cadmium	**0.24**		0.11	0.033	mg/Kg	☼	02/16/17 15:03	02/17/17 17:05	1
Calcium	**12000**		11	3.7	mg/Kg	☼	02/16/17 15:03	02/17/17 17:05	1
Chromium	**15**		0.57	0.099	mg/Kg	☼	02/16/17 15:03	02/17/17 17:05	1
Cobalt	**13**		0.29	0.065	mg/Kg	☼	02/16/17 15:03	02/17/17 17:05	1
Copper	**20**		0.57	0.12	mg/Kg	☼	02/16/17 15:03	02/17/17 17:05	1
Iron	**22000**		11	4.4	mg/Kg	☼	02/16/17 15:03	02/17/17 17:05	1
Lead	**76**		0.29	0.14	mg/Kg	☼	02/16/17 15:03	02/17/17 17:05	1
Magnesium	**9400**	**B**	5.7	2.3	mg/Kg	☼	02/16/17 15:03	02/17/17 17:05	1
Manganese	**490**		0.57	0.11	mg/Kg	☼	02/16/17 15:03	02/17/17 17:05	1
Nickel	**25**		0.57	0.16	mg/Kg	☼	02/16/17 15:03	02/17/17 17:05	1
Potassium	**1100**		29	4.7	mg/Kg	☼	02/16/17 15:03	02/17/17 17:05	1
Selenium	**0.60**		0.57	0.28	mg/Kg	☼	02/16/17 15:03	02/17/17 17:05	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	02/16/17 15:03	02/17/17 17:05	1
Sodium	**2100**		57	7.6	mg/Kg	☼	02/16/17 15:03	02/17/17 17:05	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	02/16/17 15:03	02/17/17 17:05	1
Vanadium	**19**		0.29	0.084	mg/Kg	☼	02/16/17 15:03	02/17/17 17:05	1
Zinc	**67**		1.1	0.36	mg/Kg	☼	02/16/17 15:03	02/17/17 17:05	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 10:03	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 10:45	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**17**	**J**	18	9.2	ug/Kg	☼	02/14/17 14:30	02/15/17 09:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.7**		0.2	0.2	SU			02/16/17 16:37	1

Client Sample ID: A38-10(0-1)-021017
Date Collected: 02/10/17 09:30
Date Received: 02/10/17 16:30

Lab Sample ID: 500-123757-6
Matrix: Solid
Percent Solids: 83.6

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	☼	02/11/17 14:38	02/15/17 15:15	1
Benzene	<1.7		1.7	0.43	ug/Kg	☼	02/11/17 14:38	02/15/17 15:15	1
Bromodichloromethane	<1.7		1.7	0.34	ug/Kg	☼	02/11/17 14:38	02/15/17 15:15	1
Bromoform	<1.7		1.7	0.49	ug/Kg	☼	02/11/17 14:38	02/15/17 15:15	1
Bromomethane	<4.2		4.2	1.6	ug/Kg	☼	02/11/17 14:38	02/15/17 15:15	1
Carbon disulfide	<4.2		4.2	0.88	ug/Kg	☼	02/11/17 14:38	02/15/17 15:15	1
Carbon tetrachloride	<1.7		1.7	0.49	ug/Kg	☼	02/11/17 14:38	02/15/17 15:15	1
Chlorobenzene	<1.7		1.7	0.62	ug/Kg	☼	02/11/17 14:38	02/15/17 15:15	1
Chloroethane	<4.2		4.2	1.3	ug/Kg	☼	02/11/17 14:38	02/15/17 15:15	1
Chloroform	<1.7		1.7	0.59	ug/Kg	☼	02/11/17 14:38	02/15/17 15:15	1
Chloromethane	<4.2		4.2	1.7	ug/Kg	☼	02/11/17 14:38	02/15/17 15:15	1
cis-1,2-Dichloroethene	<1.7		1.7	0.47	ug/Kg	☼	02/11/17 14:38	02/15/17 15:15	1
cis-1,3-Dichloropropene	<1.7		1.7	0.51	ug/Kg	☼	02/11/17 14:38	02/15/17 15:15	1
Dibromochloromethane	<1.7		1.7	0.55	ug/Kg	☼	02/11/17 14:38	02/15/17 15:15	1
1,1-Dichloroethane	<1.7		1.7	0.58	ug/Kg	☼	02/11/17 14:38	02/15/17 15:15	1
1,2-Dichloroethane	<4.2		4.2	1.3	ug/Kg	☼	02/11/17 14:38	02/15/17 15:15	1
1,1-Dichloroethene	<1.7		1.7	0.58	ug/Kg	☼	02/11/17 14:38	02/15/17 15:15	1
1,2-Dichloropropane	<1.7		1.7	0.44	ug/Kg	☼	02/11/17 14:38	02/15/17 15:15	1
1,3-Dichloropropene, Total	<1.7		1.7	0.59	ug/Kg	☼	02/11/17 14:38	02/15/17 15:15	1
Ethylbenzene	<1.7		1.7	0.81	ug/Kg	☼	02/11/17 14:38	02/15/17 15:15	1
2-Hexanone	<4.2		4.2	1.3	ug/Kg	☼	02/11/17 14:38	02/15/17 15:15	1
Methylene Chloride	<4.2		4.2	1.7	ug/Kg	☼	02/11/17 14:38	02/15/17 15:15	1
Methyl Ethyl Ketone	<4.2		4.2	1.9	ug/Kg	☼	02/11/17 14:38	02/15/17 15:15	1
methyl isobutyl ketone	<4.2		4.2	1.3	ug/Kg	☼	02/11/17 14:38	02/15/17 15:15	1
Methyl tert-butyl ether	<1.7		1.7	0.50	ug/Kg	☼	02/11/17 14:38	02/15/17 15:15	1
Styrene	<1.7		1.7	0.51	ug/Kg	☼	02/11/17 14:38	02/15/17 15:15	1
1,1,2,2-Tetrachloroethane	<1.7		1.7	0.54	ug/Kg	☼	02/11/17 14:38	02/15/17 15:15	1
Tetrachloroethene	<1.7		1.7	0.58	ug/Kg	☼	02/11/17 14:38	02/15/17 15:15	1
Toluene	<1.7		1.7	0.43	ug/Kg	☼	02/11/17 14:38	02/15/17 15:15	1
trans-1,2-Dichloroethene	<1.7		1.7	0.75	ug/Kg	☼	02/11/17 14:38	02/15/17 15:15	1
trans-1,3-Dichloropropene	<1.7		1.7	0.59	ug/Kg	☼	02/11/17 14:38	02/15/17 15:15	1
1,1,1-Trichloroethane	<1.7		1.7	0.57	ug/Kg	☼	02/11/17 14:38	02/15/17 15:15	1
1,1,2-Trichloroethane	<1.7		1.7	0.73	ug/Kg	☼	02/11/17 14:38	02/15/17 15:15	1
Trichloroethene	<1.7		1.7	0.57	ug/Kg	☼	02/11/17 14:38	02/15/17 15:15	1
Vinyl chloride	<1.7		1.7	0.75	ug/Kg	☼	02/11/17 14:38	02/15/17 15:15	1
Xylenes, Total	<3.4		3.4	0.54	ug/Kg	☼	02/11/17 14:38	02/15/17 15:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 120*	*02/11/17 14:38*	*02/15/17 15:15*	*1*
Dibromofluoromethane	*98*		*75 - 120*	*02/11/17 14:38*	*02/15/17 15:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*69 - 134*	*02/11/17 14:38*	*02/15/17 15:15*	*1*
Toluene-d8 (Surr)	*108*		*75 - 123*	*02/11/17 14:38*	*02/15/17 15:15*	*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	☼	02/16/17 06:59	02/17/17 13:43	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	02/16/17 06:59	02/17/17 13:43	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	02/16/17 06:59	02/17/17 13:43	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	02/16/17 06:59	02/17/17 13:43	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	02/16/17 06:59	02/17/17 13:43	1

Client Sample ID: A38-10(0-1)-021017
Date Collected: 02/10/17 09:30
Date Received: 02/10/17 16:30

Lab Sample ID: 500-123757-6
Matrix: Solid
Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<380		380	87	ug/Kg	☼	02/16/17 06:59	02/17/17 13:43	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	02/16/17 06:59	02/17/17 13:43	1
2,4-Dichlorophenol	<380		380	90	ug/Kg	☼	02/16/17 06:59	02/17/17 13:43	1
2,4-Dimethylphenol	<380		380	140	ug/Kg	☼	02/16/17 06:59	02/17/17 13:43	1
2,4-Dinitrophenol	<770		770	670	ug/Kg	☼	02/16/17 06:59	02/17/17 13:43	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	02/16/17 06:59	02/17/17 13:43	1
2,6-Dinitrotoluene	<190		190	75	ug/Kg	☼	02/16/17 06:59	02/17/17 13:43	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	02/16/17 06:59	02/17/17 13:43	1
2-Chlorophenol	<190		190	65	ug/Kg	☼	02/16/17 06:59	02/17/17 13:43	1
2-Methylnaphthalene	<77		77	7.0	ug/Kg	☼	02/16/17 06:59	02/17/17 13:43	1
2-Methylphenol	<190		190	61	ug/Kg	☼	02/16/17 06:59	02/17/17 13:43	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	02/16/17 06:59	02/17/17 13:43	1
2-Nitrophenol	<380		380	90	ug/Kg	☼	02/16/17 06:59	02/17/17 13:43	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	02/16/17 06:59	02/17/17 13:43	1
3,3'-Dichlorobenzidine	<190		190	53	ug/Kg	☼	02/16/17 06:59	02/17/17 13:43	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	02/16/17 06:59	02/17/17 13:43	1
4,6-Dinitro-2-methylphenol	<770		770	310	ug/Kg	☼	02/16/17 06:59	02/17/17 13:43	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	02/16/17 06:59	02/17/17 13:43	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	02/16/17 06:59	02/17/17 13:43	1
4-Chloroaniline	<770		770	180	ug/Kg	☼	02/16/17 06:59	02/17/17 13:43	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	02/16/17 06:59	02/17/17 13:43	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	02/16/17 06:59	02/17/17 13:43	1
4-Nitrophenol	<770		770	360	ug/Kg	☼	02/16/17 06:59	02/17/17 13:43	1
Acenaphthene	<38		38	6.8	ug/Kg	☼	02/16/17 06:59	02/17/17 13:43	1
Acenaphthylene	<38		38	5.0	ug/Kg	☼	02/16/17 06:59	02/17/17 13:43	1
Anthracene	<38		38	6.3	ug/Kg	☼	02/16/17 06:59	02/17/17 13:43	1
Benzo[a]anthracene	**7.2**	**J**	38	5.1	ug/Kg	☼	02/16/17 06:59	02/17/17 13:43	1
Benzo[a]pyrene	**11**	**J**	38	7.3	ug/Kg	☼	02/16/17 06:59	02/17/17 13:43	1
Benzo[b]fluoranthene	**11**	**J**	38	8.2	ug/Kg	☼	02/16/17 06:59	02/17/17 13:43	1
Benzo[g,h,i]perylene	<38		38	12	ug/Kg	☼	02/16/17 06:59	02/17/17 13:43	1
Benzo[k]fluoranthene	<38		38	11	ug/Kg	☼	02/16/17 06:59	02/17/17 13:43	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	02/16/17 06:59	02/17/17 13:43	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	02/16/17 06:59	02/17/17 13:43	1
Bis(2-ethylhexyl) phthalate	<190		190	69	ug/Kg	☼	02/16/17 06:59	02/17/17 13:43	1
Butyl benzyl phthalate	<190		190	72	ug/Kg	☼	02/16/17 06:59	02/17/17 13:43	1
Carbazole	<190	*	190	95	ug/Kg	☼	02/16/17 06:59	02/17/17 13:43	1
Chrysene	<38		38	10	ug/Kg	☼	02/16/17 06:59	02/17/17 13:43	1
Dibenz(a,h)anthracene	<38		38	7.3	ug/Kg	☼	02/16/17 06:59	02/17/17 13:43	1
Dibenzofuran	<190		190	44	ug/Kg	☼	02/16/17 06:59	02/17/17 13:43	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	02/16/17 06:59	02/17/17 13:43	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	02/16/17 06:59	02/17/17 13:43	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	02/16/17 06:59	02/17/17 13:43	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	02/16/17 06:59	02/17/17 13:43	1
Fluoranthene	**10**	**J**	38	7.0	ug/Kg	☼	02/16/17 06:59	02/17/17 13:43	1
Fluorene	<38		38	5.3	ug/Kg	☼	02/16/17 06:59	02/17/17 13:43	1
Hexachlorobenzene	<77		77	8.8	ug/Kg	☼	02/16/17 06:59	02/17/17 13:43	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	02/16/17 06:59	02/17/17 13:43	1
Hexachlorocyclopentadiene	<770		770	220	ug/Kg	☼	02/16/17 06:59	02/17/17 13:43	1
Hexachloroethane	<190		190	58	ug/Kg	☼	02/16/17 06:59	02/17/17 13:43	1

Client Sample ID: A38-10(0-1)-021017
Date Collected: 02/10/17 09:30
Date Received: 02/10/17 16:30

Lab Sample ID: 500-123757-6
Matrix: Solid
Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<38		38	9.8	ug/Kg	☼	02/16/17 06:59	02/17/17 13:43	1
Isophorone	<190		190	43	ug/Kg	☼	02/16/17 06:59	02/17/17 13:43	1
Naphthalene	<38		38	5.8	ug/Kg	☼	02/16/17 06:59	02/17/17 13:43	1
Nitrobenzene	<38		38	9.5	ug/Kg	☼	02/16/17 06:59	02/17/17 13:43	1
N-Nitrosodi-n-propylamine	<77		77	46	ug/Kg	☼	02/16/17 06:59	02/17/17 13:43	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	02/16/17 06:59	02/17/17 13:43	1
Pentachlorophenol	<770		770	610	ug/Kg	☼	02/16/17 06:59	02/17/17 13:43	1
Phenanthrene	**7.7**	**J**	38	5.3	ug/Kg	☼	02/16/17 06:59	02/17/17 13:43	1
Phenol	<190		190	84	ug/Kg	☼	02/16/17 06:59	02/17/17 13:43	1
Pyrene	**11**	**J**	38	7.5	ug/Kg	☼	02/16/17 06:59	02/17/17 13:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*80*		*25 - 130*	*02/16/17 06:59*	*02/17/17 13:43*	*1*
2-Fluorobiphenyl	*103*		*42 - 115*	*02/16/17 06:59*	*02/17/17 13:43*	*1*
2-Fluorophenol	*108*		*40 - 130*	*02/16/17 06:59*	*02/17/17 13:43*	*1*
Nitrobenzene-d5	*100*		*33 - 124*	*02/16/17 06:59*	*02/17/17 13:43*	*1*
Phenol-d5	*111*		*36 - 123*	*02/16/17 06:59*	*02/17/17 13:43*	*1*
Terphenyl-d14	*111*		*25 - 150*	*02/16/17 06:59*	*02/17/17 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		02/16/17 08:50	02/16/17 17:55	1
Barium	**0.25**	**J**	0.50	0.050	mg/L		02/16/17 08:50	02/16/17 17:55	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/16/17 08:50	02/16/17 17:55	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/16/17 08:50	02/16/17 17:55	1
Chromium	<0.025		0.025	0.010	mg/L		02/16/17 08:50	02/16/17 17:55	1
Cobalt	<0.025		0.025	0.010	mg/L		02/16/17 08:50	02/16/17 17:55	1
Copper	**0.014**	**J**	0.025	0.010	mg/L		02/16/17 08:50	02/16/17 17:55	1
Iron	**1.1**		0.40	0.20	mg/L		02/16/17 08:50	02/16/17 17:55	1
Lead	**0.016**		0.0075	0.0075	mg/L		02/16/17 08:50	02/16/17 17:55	1
Manganese	**0.72**		0.025	0.010	mg/L		02/16/17 08:50	02/16/17 17:55	1
Nickel	<0.025		0.025	0.010	mg/L		02/16/17 08:50	02/16/17 17:55	1
Selenium	<0.050		0.050	0.020	mg/L		02/16/17 08:50	02/16/17 17:55	1
Silver	<0.025		0.025	0.010	mg/L		02/16/17 08:50	02/16/17 17:55	1
Zinc	**0.034**	**J**	0.50	0.020	mg/L		02/16/17 08:50	02/16/17 17:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.097**		0.050	0.010	mg/L		02/16/17 14:03	02/18/17 18:30	1
Barium	**0.63**		0.50	0.050	mg/L		02/16/17 14:03	02/18/17 18:30	1
Beryllium	**0.010**		0.0040	0.0040	mg/L		02/16/17 14:03	02/18/17 18:30	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/16/17 14:03	02/18/17 18:30	1
Chromium	**0.24**		0.025	0.010	mg/L		02/16/17 14:03	02/18/17 18:30	1
Cobalt	**0.092**		0.025	0.010	mg/L		02/16/17 14:03	02/18/17 18:30	1
Copper	**0.29**		0.025	0.010	mg/L		02/16/17 14:03	02/18/17 18:30	1
Iron	**250**		0.40	0.20	mg/L		02/16/17 14:03	02/18/17 18:30	1
Lead	**0.59**		0.0075	0.0075	mg/L		02/16/17 14:03	02/18/17 18:30	1
Manganese	**1.5**		0.025	0.010	mg/L		02/16/17 14:03	02/18/17 18:30	1
Nickel	**0.35**		0.025	0.010	mg/L		02/16/17 14:03	02/18/17 18:30	1
Selenium	<0.050		0.050	0.020	mg/L		02/16/17 14:03	02/18/17 18:30	1

Client Sample ID: A38-10(0-1)-021017
Date Collected: 02/10/17 09:30
Date Received: 02/10/17 16:30

Lab Sample ID: 500-123757-6
Matrix: Solid
Percent Solids: 83.6

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 14:03	02/18/17 18:30	1
Zinc	**0.77**		0.50	0.020	mg/L		02/16/17 14:03	02/18/17 18:30	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	☼	02/16/17 15:03	02/17/17 17:21	1
Arsenic	**5.9**		0.55	0.25	mg/Kg	☼	02/16/17 15:03	02/17/17 17:21	1
Barium	**45**		0.55	0.10	mg/Kg	☼	02/16/17 15:03	02/17/17 17:21	1
Beryllium	**0.70**		0.22	0.048	mg/Kg	☼	02/16/17 15:03	02/17/17 17:21	1
Cadmium	**0.21**		0.11	0.032	mg/Kg	☼	02/16/17 15:03	02/17/17 17:21	1
Calcium	**7100**		11	3.5	mg/Kg	☼	02/16/17 15:03	02/17/17 17:21	1
Chromium	**16**		0.55	0.095	mg/Kg	☼	02/16/17 15:03	02/17/17 17:21	1
Cobalt	**12**		0.28	0.062	mg/Kg	☼	02/16/17 15:03	02/17/17 17:21	1
Copper	**19**		0.55	0.12	mg/Kg	☼	02/16/17 15:03	02/17/17 17:21	1
Iron	**18000**		11	4.2	mg/Kg	☼	02/16/17 15:03	02/17/17 17:21	1
Lead	**43**		0.28	0.14	mg/Kg	☼	02/16/17 15:03	02/17/17 17:21	1
Magnesium	**6700**	**B**	5.5	2.2	mg/Kg	☼	02/16/17 15:03	02/17/17 17:21	1
Manganese	**270**		0.55	0.11	mg/Kg	☼	02/16/17 15:03	02/17/17 17:21	1
Nickel	**35**		0.55	0.15	mg/Kg	☼	02/16/17 15:03	02/17/17 17:21	1
Potassium	**1500**		28	4.5	mg/Kg	☼	02/16/17 15:03	02/17/17 17:21	1
Selenium	<0.55		0.55	0.27	mg/Kg	☼	02/16/17 15:03	02/17/17 17:21	1
Silver	<0.28		0.28	0.064	mg/Kg	☼	02/16/17 15:03	02/17/17 17:21	1
Sodium	**2100**		55	7.3	mg/Kg	☼	02/16/17 15:03	02/17/17 17:21	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	02/16/17 15:03	02/17/17 17:21	1
Vanadium	**16**		0.28	0.080	mg/Kg	☼	02/16/17 15:03	02/17/17 17:21	1
Zinc	**62**		1.1	0.35	mg/Kg	☼	02/16/17 15:03	02/17/17 17:21	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 10:06	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 10:48	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**37**		20	10	ug/Kg	☼	02/14/17 14:30	02/15/17 10:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.2**		0.2	0.2	SU			02/16/17 16:40	1

Definitions/Glossary

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

TestAmerica Job ID: 500-123757-1

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

Chain of Custody Record

Report To (optional)
Contact: S. Balasubramanian
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#

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: [signature] JB
Lab PM: Dick Wright

500-123757 COC

Preservative Key: ... 4° / ... to 4° / ... to 4° / ... to 4° / ...ol to 4° / 9. Other

Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs	SVOCs	Total Metals	TCLP/SPLP Metals	pH					Comments
1		A38-6(0-1)-021017	2/10/17	08:30	6	SO	X	X	X	X	X					
2		A38-7(0-1)-021017	↓	08:45	↓	↓	X	X	X	X	X					
3		A38-7(0-1)-021017D		08:45			X	X	X	X	X					
4		A38-8(0-1)-021017		09:00			X	X	X	X	X					
5		A38-9(0-1)-021017		09:15			X	X	X	X	X					
6		A38-10(0-1)-021017		09:30			X	X	X	X	X					
7		A38-11(0-1)-021017		09:40			X	X	X	X	X					
8		A38-12(0-1)-021017		10:30			X	X	X	X	X					
9		R37-1(0-1)-021017		10:40			X	X	X	X	X					
10		A31-1(0-1)-021017	↓	10:55	↓	↓	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 ☒ 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]	TAUTD	02/10/17	1630

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

Report To (optional)
Contact: S. Babusukumar
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#

Lab Job #: 500-123757
Chain of Custody Number:
Page 5 of 5
Temperature °C of Cooler: 1.8 0.6 → 0.2, 0.8, 3.7, 2.3

Client: Weston Solutions
Client Project #:
Project Name: IDOT 053
Project Location/State: Beecher / IL
Lab Project #:
Sampler: ~~A. Furhase~~ 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	VOCs	SVOCs	Total Metals	TCLP/SPLP Metals	pH					Comments
11		A31-2 (0-1) - 021017	2/10/17	11:10	6	SO	X	X	X	X	X					
12		A31-3 (0-1) - 021017	↓	11:40	↓	↓	X	X	X	X	X					
13		A31-4 (0-1) - 021017	↓	12:00	↓	↓	X	X	X	X	X					
14		A31-5 (0-1) - 021017	↓	12:45	↓	↓	X	X	X	X	X					
15		A31-6 (0-1) - 021017	↓	13:00	↓	↓	X	X	X	X	X					
16		A31-7 (0-1) - 021017	↓	13:15	↓	↓	X	X	X	X	X					
17		A31-8 (0-1) - 021017	↓	~~13:25~~ 13:40	↓	↓	X	X	X	X	X					
18		R34-1 (0-1) - 021017	↓	13:35	↓	↓	X	X	X	X	X					
19		S32-1 (0-1) - 021017	↓	13:45	↓	↓	X	X	X	X	X					
20		S32-2 (0-1) - 021017	↓	14:00	↓	↓	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	2/10/17	1630	[signature]	TALUI	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:

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: 500-123628-1
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 5:14:36 PM

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

Client Sample ID: A38-14(0-1)-020817
Date Collected: 02/08/17 12:05
Date Received: 02/08/17 17:00

Lab Sample ID: 500-123628-13
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	<17		17	7.4	ug/Kg	☼	02/09/17 08:50	02/10/17 18:09	1
Benzene	<1.7		1.7	0.43	ug/Kg	☼	02/09/17 08:50	02/10/17 18:09	1
Bromodichloromethane	<1.7		1.7	0.35	ug/Kg	☼	02/09/17 08:50	02/10/17 18:09	1
Bromoform	<1.7		1.7	0.50	ug/Kg	☼	02/09/17 08:50	02/10/17 18:09	1
Bromomethane	<4.2		4.2	1.6	ug/Kg	☼	02/09/17 08:50	02/10/17 18:09	1
Carbon disulfide	<4.2		4.2	0.88	ug/Kg	☼	02/09/17 08:50	02/10/17 18:09	1
Carbon tetrachloride	<1.7		1.7	0.49	ug/Kg	☼	02/09/17 08:50	02/10/17 18:09	1
Chlorobenzene	<1.7		1.7	0.63	ug/Kg	☼	02/09/17 08:50	02/10/17 18:09	1
Chloroethane	<4.2		4.2	1.3	ug/Kg	☼	02/09/17 08:50	02/10/17 18:09	1
Chloroform	<1.7		1.7	0.59	ug/Kg	☼	02/09/17 08:50	02/10/17 18:09	1
Chloromethane	<4.2		4.2	1.7	ug/Kg	☼	02/09/17 08:50	02/10/17 18:09	1
cis-1,2-Dichloroethene	<1.7		1.7	0.47	ug/Kg	☼	02/09/17 08:50	02/10/17 18:09	1
cis-1,3-Dichloropropene	<1.7		1.7	0.51	ug/Kg	☼	02/09/17 08:50	02/10/17 18:09	1
Dibromochloromethane	<1.7		1.7	0.56	ug/Kg	☼	02/09/17 08:50	02/10/17 18:09	1
1,1-Dichloroethane	<1.7		1.7	0.58	ug/Kg	☼	02/09/17 08:50	02/10/17 18:09	1
1,2-Dichloroethane	<4.2		4.2	1.3	ug/Kg	☼	02/09/17 08:50	02/10/17 18:09	1
1,1-Dichloroethene	<1.7		1.7	0.58	ug/Kg	☼	02/09/17 08:50	02/10/17 18:09	1
1,2-Dichloropropane	<1.7		1.7	0.44	ug/Kg	☼	02/09/17 08:50	02/10/17 18:09	1
1,3-Dichloropropene, Total	<1.7		1.7	0.60	ug/Kg	☼	02/09/17 08:50	02/10/17 18:09	1
Ethylbenzene	<1.7		1.7	0.81	ug/Kg	☼	02/09/17 08:50	02/10/17 18:09	1
2-Hexanone	<4.2		4.2	1.3	ug/Kg	☼	02/09/17 08:50	02/10/17 18:09	1
Methylene Chloride	<4.2		4.2	1.7	ug/Kg	☼	02/09/17 08:50	02/10/17 18:09	1
Methyl Ethyl Ketone	<4.2		4.2	1.9	ug/Kg	☼	02/09/17 08:50	02/10/17 18:09	1
methyl isobutyl ketone	<4.2		4.2	1.3	ug/Kg	☼	02/09/17 08:50	02/10/17 18:09	1
Methyl tert-butyl ether	<1.7		1.7	0.50	ug/Kg	☼	02/09/17 08:50	02/10/17 18:09	1
Styrene	<1.7		1.7	0.51	ug/Kg	☼	02/09/17 08:50	02/10/17 18:09	1
1,1,2,2-Tetrachloroethane	<1.7		1.7	0.54	ug/Kg	☼	02/09/17 08:50	02/10/17 18:09	1
Tetrachloroethene	<1.7		1.7	0.58	ug/Kg	☼	02/09/17 08:50	02/10/17 18:09	1
Toluene	<1.7		1.7	0.43	ug/Kg	☼	02/09/17 08:50	02/10/17 18:09	1
trans-1,2-Dichloroethene	<1.7		1.7	0.75	ug/Kg	☼	02/09/17 08:50	02/10/17 18:09	1
trans-1,3-Dichloropropene	<1.7		1.7	0.60	ug/Kg	☼	02/09/17 08:50	02/10/17 18:09	1
1,1,1-Trichloroethane	<1.7		1.7	0.57	ug/Kg	☼	02/09/17 08:50	02/10/17 18:09	1
1,1,2-Trichloroethane	<1.7		1.7	0.73	ug/Kg	☼	02/09/17 08:50	02/10/17 18:09	1
Trichloroethene	<1.7		1.7	0.57	ug/Kg	☼	02/09/17 08:50	02/10/17 18:09	1
Vinyl chloride	<1.7		1.7	0.75	ug/Kg	☼	02/09/17 08:50	02/10/17 18:09	1
Xylenes, Total	<3.4		3.4	0.54	ug/Kg	☼	02/09/17 08:50	02/10/17 18:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 120*	*02/09/17 08:50*	*02/10/17 18:09*	*1*
Dibromofluoromethane	*97*		*75 - 120*	*02/09/17 08:50*	*02/10/17 18:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*69 - 134*	*02/09/17 08:50*	*02/10/17 18:09*	*1*
Toluene-d8 (Surr)	*108*		*75 - 123*	*02/09/17 08:50*	*02/10/17 18:09*	*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	☼	02/10/17 17:49	02/15/17 05:06	1
1,2-Dichlorobenzene	<180		180	43	ug/Kg	☼	02/10/17 17:49	02/15/17 05:06	1
1,3-Dichlorobenzene	<180		180	40	ug/Kg	☼	02/10/17 17:49	02/15/17 05:06	1
1,4-Dichlorobenzene	<180		180	46	ug/Kg	☼	02/10/17 17:49	02/15/17 05:06	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	02/10/17 17:49	02/15/17 05:06	1

Client Sample ID: A38-14(0-1)-020817
Date Collected: 02/08/17 12:05
Date Received: 02/08/17 17:00

Lab Sample ID: 500-123628-13
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	82	ug/Kg	☼	02/10/17 17:49	02/15/17 05:06	1
2,4,6-Trichlorophenol	<360		360	120	ug/Kg	☼	02/10/17 17:49	02/15/17 05:06	1
2,4-Dichlorophenol	<360		360	85	ug/Kg	☼	02/10/17 17:49	02/15/17 05:06	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	02/10/17 17:49	02/15/17 05:06	1
2,4-Dinitrophenol	<720		720	630	ug/Kg	☼	02/10/17 17:49	02/15/17 05:06	1
2,4-Dinitrotoluene	<180		180	57	ug/Kg	☼	02/10/17 17:49	02/15/17 05:06	1
2,6-Dinitrotoluene	<180		180	70	ug/Kg	☼	02/10/17 17:49	02/15/17 05:06	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	02/10/17 17:49	02/15/17 05:06	1
2-Chlorophenol	<180		180	61	ug/Kg	☼	02/10/17 17:49	02/15/17 05:06	1
2-Methylnaphthalene	**15**	**J**	72	6.6	ug/Kg	☼	02/10/17 17:49	02/15/17 05:06	1
2-Methylphenol	<180		180	57	ug/Kg	☼	02/10/17 17:49	02/15/17 05:06	1
2-Nitroaniline	<180		180	48	ug/Kg	☼	02/10/17 17:49	02/15/17 05:06	1
2-Nitrophenol	<360		360	85	ug/Kg	☼	02/10/17 17:49	02/15/17 05:06	1
3 & 4 Methylphenol	<180		180	60	ug/Kg	☼	02/10/17 17:49	02/15/17 05:06	1
3,3'-Dichlorobenzidine	<180		180	50	ug/Kg	☼	02/10/17 17:49	02/15/17 05:06	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	02/10/17 17:49	02/15/17 05:06	1
4,6-Dinitro-2-methylphenol	<720		720	290	ug/Kg	☼	02/10/17 17:49	02/15/17 05:06	1
4-Bromophenyl phenyl ether	<180		180	47	ug/Kg	☼	02/10/17 17:49	02/15/17 05:06	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	02/10/17 17:49	02/15/17 05:06	1
4-Chloroaniline	<720		720	170	ug/Kg	☼	02/10/17 17:49	02/15/17 05:06	1
4-Chlorophenyl phenyl ether	<180		180	42	ug/Kg	☼	02/10/17 17:49	02/15/17 05:06	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	02/10/17 17:49	02/15/17 05:06	1
4-Nitrophenol	<720		720	340	ug/Kg	☼	02/10/17 17:49	02/15/17 05:06	1
Acenaphthene	**87**		36	6.4	ug/Kg	☼	02/10/17 17:49	02/15/17 05:06	1
Acenaphthylene	**16**	**J**	36	4.7	ug/Kg	☼	02/10/17 17:49	02/15/17 05:06	1
Anthracene	**150**		36	6.0	ug/Kg	☼	02/10/17 17:49	02/15/17 05:06	1
Benzo[a]anthracene	**570**		36	4.8	ug/Kg	☼	02/10/17 17:49	02/15/17 05:06	1
Benzo[a]pyrene	**560**	*	36	6.9	ug/Kg	☼	02/10/17 17:49	02/15/17 05:06	1
Benzo[b]fluoranthene	**1000**	*	36	7.7	ug/Kg	☼	02/10/17 17:49	02/15/17 05:06	1
Benzo[g,h,i]perylene	**220**	*	36	12	ug/Kg	☼	02/10/17 17:49	02/15/17 05:06	1
Benzo[k]fluoranthene	**470**	*	36	11	ug/Kg	☼	02/10/17 17:49	02/15/17 05:06	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	02/10/17 17:49	02/15/17 05:06	1
Bis(2-chloroethyl)ether	<180		180	54	ug/Kg	☼	02/10/17 17:49	02/15/17 05:06	1
Bis(2-ethylhexyl) phthalate	**150**	**J**	180	65	ug/Kg	☼	02/10/17 17:49	02/15/17 05:06	1
Butyl benzyl phthalate	<180		180	68	ug/Kg	☼	02/10/17 17:49	02/15/17 05:06	1
Carbazole	<180		180	89	ug/Kg	☼	02/10/17 17:49	02/15/17 05:06	1
Chrysene	**700**		36	9.8	ug/Kg	☼	02/10/17 17:49	02/15/17 05:06	1
Dibenz(a,h)anthracene	**46**	*	36	6.9	ug/Kg	☼	02/10/17 17:49	02/15/17 05:06	1
Dibenzofuran	<180		180	42	ug/Kg	☼	02/10/17 17:49	02/15/17 05:06	1
Diethyl phthalate	<180		180	61	ug/Kg	☼	02/10/17 17:49	02/15/17 05:06	1
Dimethyl phthalate	<180		180	47	ug/Kg	☼	02/10/17 17:49	02/15/17 05:06	1
Di-n-butyl phthalate	<180		180	55	ug/Kg	☼	02/10/17 17:49	02/15/17 05:06	1
Di-n-octyl phthalate	<180		180	58	ug/Kg	☼	02/10/17 17:49	02/15/17 05:06	1
Fluoranthene	**1900**		36	6.6	ug/Kg	☼	02/10/17 17:49	02/15/17 05:06	1
Fluorene	**68**		36	5.0	ug/Kg	☼	02/10/17 17:49	02/15/17 05:06	1
Hexachlorobenzene	<72		72	8.3	ug/Kg	☼	02/10/17 17:49	02/15/17 05:06	1
Hexachlorobutadiene	<180		180	56	ug/Kg	☼	02/10/17 17:49	02/15/17 05:06	1
Hexachlorocyclopentadiene	<720		720	210	ug/Kg	☼	02/10/17 17:49	02/15/17 05:06	1
Hexachloroethane	<180		180	54	ug/Kg	☼	02/10/17 17:49	02/15/17 05:06	1

Client Sample ID: A38-14(0-1)-020817
Date Collected: 02/08/17 12:05
Date Received: 02/08/17 17:00

Lab Sample ID: 500-123628-13
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	**210**	*	36	9.3	ug/Kg	☼	02/10/17 17:49	02/15/17 05:06	1
Isophorone	<180		180	40	ug/Kg	☼	02/10/17 17:49	02/15/17 05:06	1
Naphthalene	**11**	J	36	5.5	ug/Kg	☼	02/10/17 17:49	02/15/17 05:06	1
Nitrobenzene	<36		36	8.9	ug/Kg	☼	02/10/17 17:49	02/15/17 05:06	1
N-Nitrosodi-n-propylamine	<72		72	44	ug/Kg	☼	02/10/17 17:49	02/15/17 05:06	1
N-Nitrosodiphenylamine	<180		180	42	ug/Kg	☼	02/10/17 17:49	02/15/17 05:06	1
Pentachlorophenol	<720		720	570	ug/Kg	☼	02/10/17 17:49	02/15/17 05:06	1
Phenanthrene	**1000**		36	5.0	ug/Kg	☼	02/10/17 17:49	02/15/17 05:06	1
Phenol	<180		180	80	ug/Kg	☼	02/10/17 17:49	02/15/17 05:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*99*		*25 - 130*	*02/10/17 17:49*	*02/15/17 05:06*	*1*
2-Fluorobiphenyl	*66*		*42 - 115*	*02/10/17 17:49*	*02/15/17 05:06*	*1*
2-Fluorophenol	*60*		*40 - 130*	*02/10/17 17:49*	*02/15/17 05:06*	*1*
Nitrobenzene-d5	*52*		*33 - 124*	*02/10/17 17:49*	*02/15/17 05:06*	*1*
Phenol-d5	*56*		*36 - 123*	*02/10/17 17:49*	*02/15/17 05:06*	*1*
Terphenyl-d14	*171*	*X*	*25 - 150*	*02/10/17 17:49*	*02/15/17 05:06*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	**1800**		71	14	ug/Kg	☼	02/10/17 17:49	02/15/17 13:54	2

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 08:19	02/13/17 20:10	1
Barium	**0.28**	J	0.50	0.050	mg/L		02/13/17 08:19	02/13/17 20:10	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/13/17 08:19	02/13/17 20:10	1
Cadmium	**0.0034**	J	0.0050	0.0020	mg/L		02/13/17 08:19	02/13/17 20:10	1
Chromium	<0.025		0.025	0.010	mg/L		02/13/17 08:19	02/13/17 20:10	1
Cobalt	<0.025		0.025	0.010	mg/L		02/13/17 08:19	02/13/17 20:10	1
Copper	**0.030**	J B	0.040	0.010	mg/L		02/13/17 08:19	02/13/17 20:10	1
Iron	<0.40		0.40	0.20	mg/L		02/13/17 08:19	02/13/17 20:10	1
Lead	**0.018**		0.0075	0.0075	mg/L		02/13/17 08:19	02/13/17 20:10	1
Manganese	**0.39**		0.025	0.010	mg/L		02/13/17 08:19	02/13/17 20:10	1
Nickel	**0.012**	J	0.025	0.010	mg/L		02/13/17 08:19	02/13/17 20:10	1
Selenium	<0.050		0.050	0.020	mg/L		02/13/17 08:19	02/13/17 20:10	1
Silver	<0.025		0.025	0.010	mg/L		02/13/17 08:19	02/13/17 20:10	1
Zinc	**0.57**	B	0.50	0.020	mg/L		02/13/17 08:19	02/13/17 20:10	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		02/13/17 08:20	02/13/17 17:00	1
Barium	**0.055**	J	0.50	0.050	mg/L		02/13/17 08:20	02/13/17 17:00	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/13/17 08:20	02/13/17 17:00	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/13/17 08:20	02/13/17 17:00	1
Chromium	**0.020**	J	0.025	0.010	mg/L		02/13/17 08:20	02/13/17 17:00	1
Cobalt	<0.025		0.025	0.010	mg/L		02/13/17 08:20	02/13/17 17:00	1
Copper	**0.044**		0.025	0.010	mg/L		02/13/17 08:20	02/13/17 17:00	1
Iron	**7.7**		0.40	0.20	mg/L		02/13/17 08:20	02/13/17 17:00	1
Lead	**0.069**		0.0075	0.0075	mg/L		02/13/17 08:20	02/13/17 17:00	1

Client Sample ID: A38-14(0-1)-020817
Date Collected: 02/08/17 12:05
Date Received: 02/08/17 17:00

Lab Sample ID: 500-123628-13
Matrix: Solid
Percent Solids: 90.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.071		0.025	0.010	mg/L		02/13/17 08:20	02/13/17 17:00	1
Nickel	<0.025		0.025	0.010	mg/L		02/13/17 08:20	02/13/17 17:00	1
Selenium	<0.050		0.050	0.020	mg/L		02/13/17 08:20	02/13/17 17:00	1
Silver	<0.025		0.025	0.010	mg/L		02/13/17 08:20	02/13/17 17:00	1
Zinc	0.18	J	0.50	0.020	mg/L		02/13/17 08:20	02/13/17 17:00	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.96		0.96	0.20	mg/Kg	☼	02/10/17 08:30	02/12/17 04:04	1
Arsenic	2.0		0.48	0.22	mg/Kg	☼	02/10/17 08:30	02/12/17 04:04	1
Barium	38		0.48	0.087	mg/Kg	☼	02/10/17 08:30	02/12/17 04:04	1
Beryllium	0.21		0.19	0.041	mg/Kg	☼	02/10/17 08:30	02/12/17 04:04	1
Cadmium	0.58	B	0.096	0.028	mg/Kg	☼	02/10/17 08:30	02/12/17 04:04	1
Calcium	180000	B	96	31	mg/Kg	☼	02/10/17 08:30	02/12/17 06:14	10
Chromium	14	B	0.48	0.082	mg/Kg	☼	02/10/17 08:30	02/12/17 04:04	1
Cobalt	2.6		0.24	0.054	mg/Kg	☼	02/10/17 08:30	02/12/17 04:04	1
Copper	42		0.48	0.10	mg/Kg	☼	02/10/17 08:30	02/12/17 04:04	1
Iron	10000	B	9.6	3.7	mg/Kg	☼	02/10/17 08:30	02/12/17 04:04	1
Lead	100	B	0.24	0.12	mg/Kg	☼	02/10/17 08:30	02/12/17 04:04	1
Magnesium	110000	B	48	19	mg/Kg	☼	02/10/17 08:30	02/12/17 06:14	10
Manganese	250		0.48	0.095	mg/Kg	☼	02/10/17 08:30	02/12/17 04:04	1
Nickel	9.2		0.48	0.13	mg/Kg	☼	02/10/17 08:30	02/12/17 04:04	1
Potassium	540		24	3.9	mg/Kg	☼	02/10/17 08:30	02/12/17 04:04	1
Selenium	0.66	B	0.48	0.24	mg/Kg	☼	02/10/17 08:30	02/12/17 04:04	1
Silver	<0.24		0.24	0.056	mg/Kg	☼	02/10/17 08:30	02/12/17 04:04	1
Sodium	530		48	6.3	mg/Kg	☼	02/10/17 08:30	02/12/17 04:04	1
Thallium	<0.48		0.48	0.24	mg/Kg	☼	02/10/17 08:30	02/12/17 04:04	1
Vanadium	6.8		0.24	0.070	mg/Kg	☼	02/10/17 08:30	02/12/17 04:04	1
Zinc	160		0.96	0.30	mg/Kg	☼	02/10/17 08:30	02/12/17 04:04	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 12:30	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 11:45	02/14/17 10:11	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	9.9	J	17	8.8	ug/Kg	☼	02/09/17 16:15	02/10/17 11:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.7		0.2	0.2	SU			02/13/17 11:33	1

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

TestAmerica Job ID: 500-123628-1

Client Sample ID: A38-15(0-1)-020817
Date Collected: 02/08/17 12:25
Date Received: 02/08/17 17:00

Lab Sample ID: 500-123628-14
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	7.5	ug/Kg	☼	02/09/17 08:50	02/10/17 18:34	1
Benzene	<1.7		1.7	0.44	ug/Kg	☼	02/09/17 08:50	02/10/17 18:34	1
Bromodichloromethane	<1.7		1.7	0.35	ug/Kg	☼	02/09/17 08:50	02/10/17 18:34	1
Bromoform	<1.7		1.7	0.50	ug/Kg	☼	02/09/17 08:50	02/10/17 18:34	1
Bromomethane	<4.3		4.3	1.6	ug/Kg	☼	02/09/17 08:50	02/10/17 18:34	1
Carbon disulfide	<4.3		4.3	0.89	ug/Kg	☼	02/09/17 08:50	02/10/17 18:34	1
Carbon tetrachloride	<1.7		1.7	0.50	ug/Kg	☼	02/09/17 08:50	02/10/17 18:34	1
Chlorobenzene	<1.7		1.7	0.63	ug/Kg	☼	02/09/17 08:50	02/10/17 18:34	1
Chloroethane	<4.3		4.3	1.3	ug/Kg	☼	02/09/17 08:50	02/10/17 18:34	1
Chloroform	<1.7		1.7	0.59	ug/Kg	☼	02/09/17 08:50	02/10/17 18:34	1
Chloromethane	<4.3		4.3	1.7	ug/Kg	☼	02/09/17 08:50	02/10/17 18:34	1
cis-1,2-Dichloroethene	<1.7		1.7	0.48	ug/Kg	☼	02/09/17 08:50	02/10/17 18:34	1
cis-1,3-Dichloropropene	<1.7		1.7	0.52	ug/Kg	☼	02/09/17 08:50	02/10/17 18:34	1
Dibromochloromethane	<1.7		1.7	0.56	ug/Kg	☼	02/09/17 08:50	02/10/17 18:34	1
1,1-Dichloroethane	<1.7		1.7	0.59	ug/Kg	☼	02/09/17 08:50	02/10/17 18:34	1
1,2-Dichloroethane	<4.3		4.3	1.3	ug/Kg	☼	02/09/17 08:50	02/10/17 18:34	1
1,1-Dichloroethene	<1.7		1.7	0.59	ug/Kg	☼	02/09/17 08:50	02/10/17 18:34	1
1,2-Dichloropropane	<1.7		1.7	0.44	ug/Kg	☼	02/09/17 08:50	02/10/17 18:34	1
1,3-Dichloropropene, Total	<1.7		1.7	0.60	ug/Kg	☼	02/09/17 08:50	02/10/17 18:34	1
Ethylbenzene	<1.7		1.7	0.82	ug/Kg	☼	02/09/17 08:50	02/10/17 18:34	1
2-Hexanone	<4.3		4.3	1.3	ug/Kg	☼	02/09/17 08:50	02/10/17 18:34	1
Methylene Chloride	<4.3		4.3	1.7	ug/Kg	☼	02/09/17 08:50	02/10/17 18:34	1
Methyl Ethyl Ketone	<4.3		4.3	1.9	ug/Kg	☼	02/09/17 08:50	02/10/17 18:34	1
methyl isobutyl ketone	<4.3		4.3	1.3	ug/Kg	☼	02/09/17 08:50	02/10/17 18:34	1
Methyl tert-butyl ether	<1.7		1.7	0.50	ug/Kg	☼	02/09/17 08:50	02/10/17 18:34	1
Styrene	<1.7		1.7	0.52	ug/Kg	☼	02/09/17 08:50	02/10/17 18:34	1
1,1,2,2-Tetrachloroethane	<1.7		1.7	0.55	ug/Kg	☼	02/09/17 08:50	02/10/17 18:34	1
Tetrachloroethene	<1.7		1.7	0.58	ug/Kg	☼	02/09/17 08:50	02/10/17 18:34	1
Toluene	<1.7		1.7	0.43	ug/Kg	☼	02/09/17 08:50	02/10/17 18:34	1
trans-1,2-Dichloroethene	<1.7		1.7	0.76	ug/Kg	☼	02/09/17 08:50	02/10/17 18:34	1
trans-1,3-Dichloropropene	<1.7		1.7	0.60	ug/Kg	☼	02/09/17 08:50	02/10/17 18:34	1
1,1,1-Trichloroethane	<1.7		1.7	0.57	ug/Kg	☼	02/09/17 08:50	02/10/17 18:34	1
1,1,2-Trichloroethane	<1.7		1.7	0.73	ug/Kg	☼	02/09/17 08:50	02/10/17 18:34	1
Trichloroethene	<1.7		1.7	0.58	ug/Kg	☼	02/09/17 08:50	02/10/17 18:34	1
Vinyl chloride	<1.7		1.7	0.76	ug/Kg	☼	02/09/17 08:50	02/10/17 18:34	1
Xylenes, Total	<3.4		3.4	0.55	ug/Kg	☼	02/09/17 08:50	02/10/17 18:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 120*	*02/09/17 08:50*	*02/10/17 18:34*	*1*
Dibromofluoromethane	*101*		*75 - 120*	*02/09/17 08:50*	*02/10/17 18:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*115*		*69 - 134*	*02/09/17 08:50*	*02/10/17 18:34*	*1*
Toluene-d8 (Surr)	*107*		*75 - 123*	*02/09/17 08:50*	*02/10/17 18:34*	*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	40	ug/Kg	☼	02/10/17 17:49	02/15/17 05:33	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	02/10/17 17:49	02/15/17 05:33	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	02/10/17 17:49	02/15/17 05:33	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	02/10/17 17:49	02/15/17 05:33	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	02/10/17 17:49	02/15/17 05:33	1

Client Sample ID: A38-15(0-1)-020817
Date Collected: 02/08/17 12:25
Date Received: 02/08/17 17:00

Lab Sample ID: 500-123628-14
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	<370		370	86	ug/Kg	☼	02/10/17 17:49	02/15/17 05:33	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	02/10/17 17:49	02/15/17 05:33	1
2,4-Dichlorophenol	<370		370	89	ug/Kg	☼	02/10/17 17:49	02/15/17 05:33	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	02/10/17 17:49	02/15/17 05:33	1
2,4-Dinitrophenol	<760		760	660	ug/Kg	☼	02/10/17 17:49	02/15/17 05:33	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	02/10/17 17:49	02/15/17 05:33	1
2,6-Dinitrotoluene	<190		190	74	ug/Kg	☼	02/10/17 17:49	02/15/17 05:33	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	02/10/17 17:49	02/15/17 05:33	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	02/10/17 17:49	02/15/17 05:33	1
2-Methylnaphthalene	<76		76	6.9	ug/Kg	☼	02/10/17 17:49	02/15/17 05:33	1
2-Methylphenol	<190		190	60	ug/Kg	☼	02/10/17 17:49	02/15/17 05:33	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	02/10/17 17:49	02/15/17 05:33	1
2-Nitrophenol	<370		370	89	ug/Kg	☼	02/10/17 17:49	02/15/17 05:33	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	02/10/17 17:49	02/15/17 05:33	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	02/10/17 17:49	02/15/17 05:33	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	02/10/17 17:49	02/15/17 05:33	1
4,6-Dinitro-2-methylphenol	<760		760	300	ug/Kg	☼	02/10/17 17:49	02/15/17 05:33	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	02/10/17 17:49	02/15/17 05:33	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	02/10/17 17:49	02/15/17 05:33	1
4-Chloroaniline	<760		760	180	ug/Kg	☼	02/10/17 17:49	02/15/17 05:33	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	02/10/17 17:49	02/15/17 05:33	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	02/10/17 17:49	02/15/17 05:33	1
4-Nitrophenol	<760		760	360	ug/Kg	☼	02/10/17 17:49	02/15/17 05:33	1
Acenaphthene	<37		37	6.7	ug/Kg	☼	02/10/17 17:49	02/15/17 05:33	1
Acenaphthylene	<37		37	4.9	ug/Kg	☼	02/10/17 17:49	02/15/17 05:33	1
Anthracene	<37		37	6.3	ug/Kg	☼	02/10/17 17:49	02/15/17 05:33	1
Benzo[a]anthracene	**19**	**J**	37	5.0	ug/Kg	☼	02/10/17 17:49	02/15/17 05:33	1
Benzo[a]pyrene	**25**	**J ***	37	7.3	ug/Kg	☼	02/10/17 17:49	02/15/17 05:33	1
Benzo[b]fluoranthene	**42**	*****	37	8.1	ug/Kg	☼	02/10/17 17:49	02/15/17 05:33	1
Benzo[g,h,i]perylene	**19**	**J ***	37	12	ug/Kg	☼	02/10/17 17:49	02/15/17 05:33	1
Benzo[k]fluoranthene	**17**	**J ***	37	11	ug/Kg	☼	02/10/17 17:49	02/15/17 05:33	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	02/10/17 17:49	02/15/17 05:33	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	02/10/17 17:49	02/15/17 05:33	1
Bis(2-ethylhexyl) phthalate	<190		190	68	ug/Kg	☼	02/10/17 17:49	02/15/17 05:33	1
Butyl benzyl phthalate	<190		190	71	ug/Kg	☼	02/10/17 17:49	02/15/17 05:33	1
Carbazole	<190		190	94	ug/Kg	☼	02/10/17 17:49	02/15/17 05:33	1
Chrysene	**23**	**J**	37	10	ug/Kg	☼	02/10/17 17:49	02/15/17 05:33	1
Dibenz(a,h)anthracene	<37	*	37	7.2	ug/Kg	☼	02/10/17 17:49	02/15/17 05:33	1
Dibenzofuran	<190		190	44	ug/Kg	☼	02/10/17 17:49	02/15/17 05:33	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	02/10/17 17:49	02/15/17 05:33	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	02/10/17 17:49	02/15/17 05:33	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	02/10/17 17:49	02/15/17 05:33	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	02/10/17 17:49	02/15/17 05:33	1
Fluoranthene	**36**	**J**	37	6.9	ug/Kg	☼	02/10/17 17:49	02/15/17 05:33	1
Fluorene	<37		37	5.3	ug/Kg	☼	02/10/17 17:49	02/15/17 05:33	1
Hexachlorobenzene	<76		76	8.7	ug/Kg	☼	02/10/17 17:49	02/15/17 05:33	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	02/10/17 17:49	02/15/17 05:33	1
Hexachlorocyclopentadiene	<760		760	220	ug/Kg	☼	02/10/17 17:49	02/15/17 05:33	1
Hexachloroethane	<190		190	57	ug/Kg	☼	02/10/17 17:49	02/15/17 05:33	1

Client Sample ID: A38-15(0-1)-020817
Date Collected: 02/08/17 12:25
Date Received: 02/08/17 17:00

Lab Sample ID: 500-123628-14
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	<37	*	37	9.7	ug/Kg	☼	02/10/17 17:49	02/15/17 05:33	1
Isophorone	<190		190	42	ug/Kg	☼	02/10/17 17:49	02/15/17 05:33	1
Naphthalene	<37		37	5.8	ug/Kg	☼	02/10/17 17:49	02/15/17 05:33	1
Nitrobenzene	<37		37	9.4	ug/Kg	☼	02/10/17 17:49	02/15/17 05:33	1
N-Nitrosodi-n-propylamine	<76		76	46	ug/Kg	☼	02/10/17 17:49	02/15/17 05:33	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	02/10/17 17:49	02/15/17 05:33	1
Pentachlorophenol	<760		760	600	ug/Kg	☼	02/10/17 17:49	02/15/17 05:33	1
Phenanthrene	**13**	**J**	37	5.2	ug/Kg	☼	02/10/17 17:49	02/15/17 05:33	1
Phenol	<190		190	83	ug/Kg	☼	02/10/17 17:49	02/15/17 05:33	1
Pyrene	**55**		37	7.4	ug/Kg	☼	02/10/17 17:49	02/15/17 05:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*83*		*25 - 130*	*02/10/17 17:49*	*02/15/17 05:33*	*1*
2-Fluorobiphenyl	*77*		*42 - 115*	*02/10/17 17:49*	*02/15/17 05:33*	*1*
2-Fluorophenol	*80*		*40 - 130*	*02/10/17 17:49*	*02/15/17 05:33*	*1*
Nitrobenzene-d5	*69*		*33 - 124*	*02/10/17 17:49*	*02/15/17 05:33*	*1*
Phenol-d5	*82*		*36 - 123*	*02/10/17 17:49*	*02/15/17 05:33*	*1*
Terphenyl-d14	*187*	*X*	*25 - 150*	*02/10/17 17:49*	*02/15/17 05:33*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/13/17 08:19	02/13/17 20:17	1
Barium	**0.39**	**J**	0.50	0.050	mg/L		02/13/17 08:19	02/13/17 20:17	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/13/17 08:19	02/13/17 20:17	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/13/17 08:19	02/13/17 20:17	1
Chromium	<0.025		0.025	0.010	mg/L		02/13/17 08:19	02/13/17 20:17	1
Cobalt	<0.025		0.025	0.010	mg/L		02/13/17 08:19	02/13/17 20:17	1
Copper	<0.040		0.040	0.010	mg/L		02/13/17 08:19	02/13/17 20:17	1
Iron	<0.40		0.40	0.20	mg/L		02/13/17 08:19	02/13/17 20:17	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/13/17 08:19	02/13/17 20:17	1
Manganese	**1.2**		0.025	0.010	mg/L		02/13/17 08:19	02/13/17 20:17	1
Nickel	<0.025		0.025	0.010	mg/L		02/13/17 08:19	02/13/17 20:17	1
Selenium	<0.050		0.050	0.020	mg/L		02/13/17 08:19	02/13/17 20:17	1
Silver	<0.025		0.025	0.010	mg/L		02/13/17 08:19	02/13/17 20:17	1
Zinc	**0.034**	**J B**	0.50	0.020	mg/L		02/13/17 08:19	02/13/17 20:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.077**		0.050	0.010	mg/L		02/13/17 08:20	02/13/17 17:04	1
Barium	**0.87**		0.50	0.050	mg/L		02/13/17 08:20	02/13/17 17:04	1
Beryllium	**0.010**		0.0040	0.0040	mg/L		02/13/17 08:20	02/13/17 17:04	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/13/17 08:20	02/13/17 17:04	1
Chromium	**0.22**		0.025	0.010	mg/L		02/13/17 08:20	02/13/17 17:04	1
Cobalt	**0.075**		0.025	0.010	mg/L		02/13/17 08:20	02/13/17 17:04	1
Copper	**0.26**		0.025	0.010	mg/L		02/13/17 08:20	02/13/17 17:04	1
Iron	**240**		0.40	0.20	mg/L		02/13/17 08:20	02/13/17 17:04	1
Lead	**0.49**		0.0075	0.0075	mg/L		02/13/17 08:20	02/13/17 17:04	1
Manganese	**1.4**		0.025	0.010	mg/L		02/13/17 08:20	02/13/17 17:04	1
Nickel	**0.29**		0.025	0.010	mg/L		02/13/17 08:20	02/13/17 17:04	1
Selenium	<0.050		0.050	0.020	mg/L		02/13/17 08:20	02/13/17 17:04	1

Client Sample ID: A38-15(0-1)-020817
Date Collected: 02/08/17 12:25
Date Received: 02/08/17 17:00

Lab Sample ID: 500-123628-14
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		02/13/17 08:20	02/13/17 17:04	1
Zinc	**0.78**		0.50	0.020	mg/L		02/13/17 08:20	02/13/17 17:04	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.30**	**J B**	1.1	0.22	mg/Kg	☼	02/10/17 08:30	02/12/17 04:09	1
Arsenic	**3.6**		0.53	0.24	mg/Kg	☼	02/10/17 08:30	02/12/17 04:09	1
Barium	**56**		0.53	0.097	mg/Kg	☼	02/10/17 08:30	02/12/17 04:09	1
Beryllium	**0.54**		0.21	0.046	mg/Kg	☼	02/10/17 08:30	02/12/17 04:09	1
Cadmium	**0.52**	**B**	0.11	0.031	mg/Kg	☼	02/10/17 08:30	02/12/17 04:09	1
Calcium	**28000**	**B**	11	3.4	mg/Kg	☼	02/10/17 08:30	02/12/17 04:09	1
Chromium	**14**	**B**	0.53	0.091	mg/Kg	☼	02/10/17 08:30	02/12/17 04:09	1
Cobalt	**6.8**		0.26	0.060	mg/Kg	☼	02/10/17 08:30	02/12/17 04:09	1
Copper	**20**		0.53	0.11	mg/Kg	☼	02/10/17 08:30	02/12/17 04:09	1
Iron	**11000**	**B**	11	4.1	mg/Kg	☼	02/10/17 08:30	02/12/17 04:09	1
Lead	**160**	**B**	0.26	0.13	mg/Kg	☼	02/10/17 08:30	02/12/17 04:09	1
Magnesium	**18000**	**B**	5.3	2.1	mg/Kg	☼	02/10/17 08:30	02/12/17 04:09	1
Manganese	**290**		0.53	0.10	mg/Kg	☼	02/10/17 08:30	02/12/17 04:09	1
Nickel	**20**		0.53	0.14	mg/Kg	☼	02/10/17 08:30	02/12/17 04:09	1
Potassium	**1400**		26	4.3	mg/Kg	☼	02/10/17 08:30	02/12/17 04:09	1
Selenium	**0.59**	**B**	0.53	0.26	mg/Kg	☼	02/10/17 08:30	02/12/17 04:09	1
Silver	<0.26		0.26	0.062	mg/Kg	☼	02/10/17 08:30	02/12/17 04:09	1
Sodium	**2300**		53	7.0	mg/Kg	☼	02/10/17 08:30	02/12/17 04:09	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	02/10/17 08:30	02/12/17 04:09	1
Vanadium	**16**		0.26	0.077	mg/Kg	☼	02/10/17 08:30	02/12/17 04:09	1
Zinc	**79**		1.1	0.33	mg/Kg	☼	02/10/17 08:30	02/12/17 04:09	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 12:32	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 11:45	02/14/17 10:13	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**19**		19	10	ug/Kg	☼	02/09/17 16:15	02/10/17 11:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.6**		0.2	0.2	SU			02/13/17 11:39	1

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

TestAmerica Job ID: 500-123628-1

Client Sample ID: A38-17(0-1)-020817
Date Collected: 02/08/17 13:10
Date Received: 02/08/17 17:00

Lab Sample ID: 500-123628-16
Matrix: Solid
Percent Solids: 92.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<15		15	6.3	ug/Kg	☼	02/09/17 08:50	02/10/17 19:23	1
Benzene	<1.5		1.5	0.37	ug/Kg	☼	02/09/17 08:50	02/10/17 19:23	1
Bromodichloromethane	<1.5		1.5	0.30	ug/Kg	☼	02/09/17 08:50	02/10/17 19:23	1
Bromoform	<1.5		1.5	0.42	ug/Kg	☼	02/09/17 08:50	02/10/17 19:23	1
Bromomethane	<3.6		3.6	1.4	ug/Kg	☼	02/09/17 08:50	02/10/17 19:23	1
Carbon disulfide	<3.6		3.6	0.76	ug/Kg	☼	02/09/17 08:50	02/10/17 19:23	1
Carbon tetrachloride	<1.5		1.5	0.42	ug/Kg	☼	02/09/17 08:50	02/10/17 19:23	1
Chlorobenzene	<1.5		1.5	0.54	ug/Kg	☼	02/09/17 08:50	02/10/17 19:23	1
Chloroethane	<3.6		3.6	1.1	ug/Kg	☼	02/09/17 08:50	02/10/17 19:23	1
Chloroform	<1.5		1.5	0.50	ug/Kg	☼	02/09/17 08:50	02/10/17 19:23	1
Chloromethane	<3.6		3.6	1.5	ug/Kg	☼	02/09/17 08:50	02/10/17 19:23	1
cis-1,2-Dichloroethene	<1.5		1.5	0.41	ug/Kg	☼	02/09/17 08:50	02/10/17 19:23	1
cis-1,3-Dichloropropene	<1.5		1.5	0.44	ug/Kg	☼	02/09/17 08:50	02/10/17 19:23	1
Dibromochloromethane	<1.5		1.5	0.48	ug/Kg	☼	02/09/17 08:50	02/10/17 19:23	1
1,1-Dichloroethane	<1.5		1.5	0.50	ug/Kg	☼	02/09/17 08:50	02/10/17 19:23	1
1,2-Dichloroethane	<3.6		3.6	1.1	ug/Kg	☼	02/09/17 08:50	02/10/17 19:23	1
1,1-Dichloroethene	<1.5		1.5	0.50	ug/Kg	☼	02/09/17 08:50	02/10/17 19:23	1
1,2-Dichloropropane	<1.5		1.5	0.38	ug/Kg	☼	02/09/17 08:50	02/10/17 19:23	1
1,3-Dichloropropene, Total	<1.5		1.5	0.51	ug/Kg	☼	02/09/17 08:50	02/10/17 19:23	1
Ethylbenzene	<1.5		1.5	0.70	ug/Kg	☼	02/09/17 08:50	02/10/17 19:23	1
2-Hexanone	<3.6		3.6	1.1	ug/Kg	☼	02/09/17 08:50	02/10/17 19:23	1
Methylene Chloride	<3.6		3.6	1.4	ug/Kg	☼	02/09/17 08:50	02/10/17 19:23	1
Methyl Ethyl Ketone	<3.6		3.6	1.6	ug/Kg	☼	02/09/17 08:50	02/10/17 19:23	1
methyl isobutyl ketone	<3.6		3.6	1.1	ug/Kg	☼	02/09/17 08:50	02/10/17 19:23	1
Methyl tert-butyl ether	<1.5		1.5	0.43	ug/Kg	☼	02/09/17 08:50	02/10/17 19:23	1
Styrene	<1.5		1.5	0.44	ug/Kg	☼	02/09/17 08:50	02/10/17 19:23	1
1,1,2,2-Tetrachloroethane	<1.5		1.5	0.46	ug/Kg	☼	02/09/17 08:50	02/10/17 19:23	1
Tetrachloroethene	<1.5		1.5	0.49	ug/Kg	☼	02/09/17 08:50	02/10/17 19:23	1
Toluene	<1.5		1.5	0.37	ug/Kg	☼	02/09/17 08:50	02/10/17 19:23	1
trans-1,2-Dichloroethene	<1.5		1.5	0.64	ug/Kg	☼	02/09/17 08:50	02/10/17 19:23	1
trans-1,3-Dichloropropene	<1.5		1.5	0.51	ug/Kg	☼	02/09/17 08:50	02/10/17 19:23	1
1,1,1-Trichloroethane	<1.5		1.5	0.49	ug/Kg	☼	02/09/17 08:50	02/10/17 19:23	1
1,1,2-Trichloroethane	<1.5		1.5	0.62	ug/Kg	☼	02/09/17 08:50	02/10/17 19:23	1
Trichloroethene	<1.5		1.5	0.49	ug/Kg	☼	02/09/17 08:50	02/10/17 19:23	1
Vinyl chloride	<1.5		1.5	0.64	ug/Kg	☼	02/09/17 08:50	02/10/17 19:23	1
Xylenes, Total	<2.9		2.9	0.47	ug/Kg	☼	02/09/17 08:50	02/10/17 19:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 120*	*02/09/17 08:50*	*02/10/17 19:23*	*1*
Dibromofluoromethane	*97*		*75 - 120*	*02/09/17 08:50*	*02/10/17 19:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*69 - 134*	*02/09/17 08:50*	*02/10/17 19:23*	*1*
Toluene-d8 (Surr)	*108*		*75 - 123*	*02/09/17 08:50*	*02/10/17 19:23*	*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	☼	02/10/17 17:49	02/15/17 06:26	1
1,2-Dichlorobenzene	<170		170	41	ug/Kg	☼	02/10/17 17:49	02/15/17 06:26	1
1,3-Dichlorobenzene	<170		170	39	ug/Kg	☼	02/10/17 17:49	02/15/17 06:26	1
1,4-Dichlorobenzene	<170		170	44	ug/Kg	☼	02/10/17 17:49	02/15/17 06:26	1
2,2'-oxybis[1-chloropropane]	<170		170	40	ug/Kg	☼	02/10/17 17:49	02/15/17 06:26	1

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

TestAmerica Job ID: 500-123628-1

Client Sample ID: A38-17(0-1)-020817
Date Collected: 02/08/17 13:10
Date Received: 02/08/17 17:00

Lab Sample ID: 500-123628-16
Matrix: Solid
Percent Solids: 92.2

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	79	ug/Kg	☼	02/10/17 17:49	02/15/17 06:26	1
2,4,6-Trichlorophenol	<340		340	120	ug/Kg	☼	02/10/17 17:49	02/15/17 06:26	1
2,4-Dichlorophenol	<340		340	82	ug/Kg	☼	02/10/17 17:49	02/15/17 06:26	1
2,4-Dimethylphenol	<340		340	130	ug/Kg	☼	02/10/17 17:49	02/15/17 06:26	1
2,4-Dinitrophenol	<700		700	610	ug/Kg	☼	02/10/17 17:49	02/15/17 06:26	1
2,4-Dinitrotoluene	<170		170	55	ug/Kg	☼	02/10/17 17:49	02/15/17 06:26	1
2,6-Dinitrotoluene	<170		170	68	ug/Kg	☼	02/10/17 17:49	02/15/17 06:26	1
2-Chloronaphthalene	<170		170	38	ug/Kg	☼	02/10/17 17:49	02/15/17 06:26	1
2-Chlorophenol	<170		170	59	ug/Kg	☼	02/10/17 17:49	02/15/17 06:26	1
2-Methylnaphthalene	<70		70	6.4	ug/Kg	☼	02/10/17 17:49	02/15/17 06:26	1
2-Methylphenol	<170		170	56	ug/Kg	☼	02/10/17 17:49	02/15/17 06:26	1
2-Nitroaniline	<170		170	47	ug/Kg	☼	02/10/17 17:49	02/15/17 06:26	1
2-Nitrophenol	<340		340	82	ug/Kg	☼	02/10/17 17:49	02/15/17 06:26	1
3 & 4 Methylphenol	<170		170	58	ug/Kg	☼	02/10/17 17:49	02/15/17 06:26	1
3,3'-Dichlorobenzidine	<170	*	170	49	ug/Kg	☼	02/10/17 17:49	02/15/17 06:26	1
3-Nitroaniline	<340		340	110	ug/Kg	☼	02/10/17 17:49	02/15/17 06:26	1
4,6-Dinitro-2-methylphenol	<700		700	280	ug/Kg	☼	02/10/17 17:49	02/15/17 06:26	1
4-Bromophenyl phenyl ether	<170		170	46	ug/Kg	☼	02/10/17 17:49	02/15/17 06:26	1
4-Chloro-3-methylphenol	<340		340	120	ug/Kg	☼	02/10/17 17:49	02/15/17 06:26	1
4-Chloroaniline	<700		700	160	ug/Kg	☼	02/10/17 17:49	02/15/17 06:26	1
4-Chlorophenyl phenyl ether	<170		170	41	ug/Kg	☼	02/10/17 17:49	02/15/17 06:26	1
4-Nitroaniline	<340		340	150	ug/Kg	☼	02/10/17 17:49	02/15/17 06:26	1
4-Nitrophenol	<700		700	330	ug/Kg	☼	02/10/17 17:49	02/15/17 06:26	1
Acenaphthene	<34		34	6.2	ug/Kg	☼	02/10/17 17:49	02/15/17 06:26	1
Acenaphthylene	<34		34	4.6	ug/Kg	☼	02/10/17 17:49	02/15/17 06:26	1
Anthracene	<34		34	5.8	ug/Kg	☼	02/10/17 17:49	02/15/17 06:26	1
Benzo[a]anthracene	**25**	**J ***	34	4.7	ug/Kg	☼	02/10/17 17:49	02/15/17 06:26	1
Benzo[a]pyrene	**31**	**J ***	34	6.7	ug/Kg	☼	02/10/17 17:49	02/15/17 06:26	1
Benzo[b]fluoranthene	**60**	*	34	7.5	ug/Kg	☼	02/10/17 17:49	02/15/17 06:26	1
Benzo[g,h,i]perylene	**21**	**J ***	34	11	ug/Kg	☼	02/10/17 17:49	02/15/17 06:26	1
Benzo[k]fluoranthene	**13**	**J ***	34	10	ug/Kg	☼	02/10/17 17:49	02/15/17 06:26	1
Bis(2-chloroethoxy)methane	<170		170	35	ug/Kg	☼	02/10/17 17:49	02/15/17 06:26	1
Bis(2-chloroethyl)ether	<170		170	52	ug/Kg	☼	02/10/17 17:49	02/15/17 06:26	1
Bis(2-ethylhexyl) phthalate	**80**	**J ***	170	63	ug/Kg	☼	02/10/17 17:49	02/15/17 06:26	1
Butyl benzyl phthalate	<170	*	170	66	ug/Kg	☼	02/10/17 17:49	02/15/17 06:26	1
Carbazole	<170		170	87	ug/Kg	☼	02/10/17 17:49	02/15/17 06:26	1
Chrysene	**30**	**J ***	34	9.5	ug/Kg	☼	02/10/17 17:49	02/15/17 06:26	1
Dibenz(a,h)anthracene	<34	*	34	6.7	ug/Kg	☼	02/10/17 17:49	02/15/17 06:26	1
Dibenzofuran	<170		170	41	ug/Kg	☼	02/10/17 17:49	02/15/17 06:26	1
Diethyl phthalate	<170		170	59	ug/Kg	☼	02/10/17 17:49	02/15/17 06:26	1
Dimethyl phthalate	<170		170	45	ug/Kg	☼	02/10/17 17:49	02/15/17 06:26	1
Di-n-butyl phthalate	<170		170	53	ug/Kg	☼	02/10/17 17:49	02/15/17 06:26	1
Di-n-octyl phthalate	<170		170	57	ug/Kg	☼	02/10/17 17:49	02/15/17 06:26	1
Fluoranthene	**44**		34	6.4	ug/Kg	☼	02/10/17 17:49	02/15/17 06:26	1
Fluorene	<34		34	4.9	ug/Kg	☼	02/10/17 17:49	02/15/17 06:26	1
Hexachlorobenzene	<70		70	8.0	ug/Kg	☼	02/10/17 17:49	02/15/17 06:26	1
Hexachlorobutadiene	<170		170	55	ug/Kg	☼	02/10/17 17:49	02/15/17 06:26	1
Hexachlorocyclopentadiene	<700		700	200	ug/Kg	☼	02/10/17 17:49	02/15/17 06:26	1
Hexachloroethane	<170		170	53	ug/Kg	☼	02/10/17 17:49	02/15/17 06:26	1

Client Sample ID: A38-17(0-1)-020817
Date Collected: 02/08/17 13:10
Date Received: 02/08/17 17:00

Lab Sample ID: 500-123628-16
Matrix: Solid
Percent Solids: 92.2

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	**15**	**J ***	34	9.0	ug/Kg	☼	02/10/17 17:49	02/15/17 06:26	1
Isophorone	<170		170	39	ug/Kg	☼	02/10/17 17:49	02/15/17 06:26	1
Naphthalene	<34		34	5.3	ug/Kg	☼	02/10/17 17:49	02/15/17 06:26	1
Nitrobenzene	<34		34	8.7	ug/Kg	☼	02/10/17 17:49	02/15/17 06:26	1
N-Nitrosodi-n-propylamine	<70		70	42	ug/Kg	☼	02/10/17 17:49	02/15/17 06:26	1
N-Nitrosodiphenylamine	<170		170	41	ug/Kg	☼	02/10/17 17:49	02/15/17 06:26	1
Pentachlorophenol	<700		700	560	ug/Kg	☼	02/10/17 17:49	02/15/17 06:26	1
Phenanthrene	**18**	**J**	34	4.8	ug/Kg	☼	02/10/17 17:49	02/15/17 06:26	1
Phenol	<170		170	77	ug/Kg	☼	02/10/17 17:49	02/15/17 06:26	1
Pyrene	**76**	*****	34	6.9	ug/Kg	☼	02/10/17 17:49	02/15/17 06:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*91*		*25 - 130*	*02/10/17 17:49*	*02/15/17 06:26*	*1*
2-Fluorobiphenyl	*79*		*42 - 115*	*02/10/17 17:49*	*02/15/17 06:26*	*1*
2-Fluorophenol	*79*		*40 - 130*	*02/10/17 17:49*	*02/15/17 06:26*	*1*
Nitrobenzene-d5	*70*		*33 - 124*	*02/10/17 17:49*	*02/15/17 06:26*	*1*
Phenol-d5	*79*		*36 - 123*	*02/10/17 17:49*	*02/15/17 06:26*	*1*
Terphenyl-d14	*192*	*X **	*25 - 150*	*02/10/17 17:49*	*02/15/17 06:26*	*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 08:19	02/13/17 20:31	1
Barium	**0.52**		0.50	0.050	mg/L		02/13/17 08:19	02/13/17 20:31	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/13/17 08:19	02/13/17 20:31	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/13/17 08:19	02/13/17 20:31	1
Chromium	<0.025		0.025	0.010	mg/L		02/13/17 08:19	02/13/17 20:31	1
Cobalt	<0.025		0.025	0.010	mg/L		02/13/17 08:19	02/13/17 20:31	1
Copper	<0.040		0.040	0.010	mg/L		02/13/17 08:19	02/13/17 20:31	1
Iron	<0.40		0.40	0.20	mg/L		02/13/17 08:19	02/13/17 20:31	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/13/17 08:19	02/13/17 20:31	1
Manganese	**1.7**		0.025	0.010	mg/L		02/13/17 08:19	02/13/17 20:31	1
Nickel	<0.025		0.025	0.010	mg/L		02/13/17 08:19	02/13/17 20:31	1
Selenium	<0.050		0.050	0.020	mg/L		02/13/17 08:19	02/13/17 20:31	1
Silver	<0.025		0.025	0.010	mg/L		02/13/17 08:19	02/13/17 20:31	1
Zinc	**0.027**	**J B**	0.50	0.020	mg/L		02/13/17 08:19	02/13/17 20:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.10**		0.050	0.010	mg/L		02/13/17 08:20	02/13/17 17:16	1
Barium	**0.90**		0.50	0.050	mg/L		02/13/17 08:20	02/13/17 17:16	1
Beryllium	**0.010**		0.0040	0.0040	mg/L		02/13/17 08:20	02/13/17 17:16	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/13/17 08:20	02/13/17 17:16	1
Chromium	**0.22**		0.025	0.010	mg/L		02/13/17 08:20	02/13/17 17:16	1
Cobalt	**0.087**		0.025	0.010	mg/L		02/13/17 08:20	02/13/17 17:16	1
Copper	**0.27**		0.025	0.010	mg/L		02/13/17 08:20	02/13/17 17:16	1
Iron	**270**		0.40	0.20	mg/L		02/13/17 08:20	02/13/17 17:16	1
Lead	**0.25**		0.0075	0.0075	mg/L		02/13/17 08:20	02/13/17 17:16	1
Manganese	**1.7**		0.025	0.010	mg/L		02/13/17 08:20	02/13/17 17:16	1
Nickel	**0.32**		0.025	0.010	mg/L		02/13/17 08:20	02/13/17 17:16	1
Selenium	<0.050		0.050	0.020	mg/L		02/13/17 08:20	02/13/17 17:16	1

Client Sample ID: A38-17(0-1)-020817
Date Collected: 02/08/17 13:10
Date Received: 02/08/17 17:00

Lab Sample ID: 500-123628-16
Matrix: Solid
Percent Solids: 92.2

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		02/13/17 08:20	02/13/17 17:16	1
Zinc	**0.74**		0.50	0.020	mg/L		02/13/17 08:20	02/13/17 17:16	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.20**	**J B**	0.89	0.18	mg/Kg	☼	02/10/17 08:30	02/12/17 04:19	1
Arsenic	**3.7**		0.45	0.21	mg/Kg	☼	02/10/17 08:30	02/12/17 04:19	1
Barium	**38**		0.45	0.082	mg/Kg	☼	02/10/17 08:30	02/12/17 04:19	1
Beryllium	**0.37**		0.18	0.039	mg/Kg	☼	02/10/17 08:30	02/12/17 04:19	1
Cadmium	**0.23**	**B**	0.089	0.026	mg/Kg	☼	02/10/17 08:30	02/12/17 04:19	1
Calcium	**120000**	**B**	89	29	mg/Kg	☼	02/10/17 08:30	02/12/17 06:33	10
Chromium	**19**	**B**	0.45	0.077	mg/Kg	☼	02/10/17 08:30	02/12/17 04:19	1
Cobalt	**6.5**		0.22	0.050	mg/Kg	☼	02/10/17 08:30	02/12/17 04:19	1
Copper	**15**		0.45	0.097	mg/Kg	☼	02/10/17 08:30	02/12/17 04:19	1
Iron	**10000**	**B**	8.9	3.4	mg/Kg	☼	02/10/17 08:30	02/12/17 04:19	1
Lead	**91**	**B**	0.22	0.11	mg/Kg	☼	02/10/17 08:30	02/12/17 04:19	1
Magnesium	**78000**	**B**	45	18	mg/Kg	☼	02/10/17 08:30	02/12/17 06:33	10
Manganese	**230**		0.45	0.088	mg/Kg	☼	02/10/17 08:30	02/12/17 04:19	1
Nickel	**16**		0.45	0.12	mg/Kg	☼	02/10/17 08:30	02/12/17 04:19	1
Potassium	**1400**		22	3.6	mg/Kg	☼	02/10/17 08:30	02/12/17 04:19	1
Selenium	**0.33**	**J B**	0.45	0.22	mg/Kg	☼	02/10/17 08:30	02/12/17 04:19	1
Silver	<0.22		0.22	0.052	mg/Kg	☼	02/10/17 08:30	02/12/17 04:19	1
Sodium	**1300**		45	5.9	mg/Kg	☼	02/10/17 08:30	02/12/17 04:19	1
Thallium	<0.45		0.45	0.22	mg/Kg	☼	02/10/17 08:30	02/12/17 04:19	1
Vanadium	**12**		0.22	0.065	mg/Kg	☼	02/10/17 08:30	02/12/17 04:19	1
Zinc	**59**		0.89	0.28	mg/Kg	☼	02/10/17 08:30	02/12/17 04:19	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 12:35	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 11:45	02/14/17 10:16	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**18**		18	9.2	ug/Kg	☼	02/09/17 16:15	02/10/17 11:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**9.0**		0.2	0.2	SU			02/13/17 11:50	1

Definitions/Glossary

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

TestAmerica Job ID: 500-123628-1

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
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
X	Surrogate is outside control limits
F1	MS and/or MSD Recovery is outside acceptance limits.
E	Result exceeded calibration range.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. 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: 500-123628-1

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 60
Phone: 708.534.5200 Fax: 708.534

500-123628 COC

Chain of Custody Record

Lab Job #: 500-123628

Chain of Custody Number:

Page 1 of 2

Temperature °C/Cooler: 4.3, 3.4, 2.7, 2.9, 4.0, 3.6

Report To (optional)		Bill To (optional)	
Contact:	S. Balasubramaniam	Contact:	
Company:	Weston Solutions	Company:	
Address:	350 Plaza Dr, Ste 202	Address:	
Address:	Mundelein, IL 60060	Address:	
Phone:	224-864-7250	Phone:	
Fax:		Fax:	
E-Mail:		PO#/Reference#	

Client	Weston Solutions	Client Project #	
Project Name	IDOT 053		
Project Location/State	Beecher / IL	Lab Project #	
Sampler	AT	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		AUU-14(0-1)-020817	2/8/17	0855	6	S		X	X	X	X	X	
2		AUU-14(0-1)-020817D		0855	6	S							
3		AUU-15(0-1)-020817		0920	6	S							
4		AUU-16(0-1)-020817		0930	6	S							
5		AUU-17(0-1)-020817		0945	6	S							
6		AUU-18(0-1)-020817		1000	6	S							
7		AUU-19(0-1)-020817		1020	6	S							
8		AUU-20(0-1)-020817		1040	6	S							
9		AUU-21(0-1)-020817		1053	6	S							
10		AUU-22(0-1)-020817	2/8/17	1115	6	S		X	X	X	X	X	

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days X 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
1		Weston	2/8/17	1700		TA	2/8/17	1700
2	Relinquished By	Company	Date	Time	Received By	Company	Date	Time
3	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. Balasubramanian
Company: Weston Solutions
Address: 300 Plaza Cir, Ste 202
Address: Mundelein, IL 60060
Phone: 224-836-7250
Fax:
E-Mail:

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

Chain of Custody Record

Lab Job #: 500-123628
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. T.
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
11		A38-13(0-1)-020817	2/8/17	1100	6	S	X	X	X	X	X					
12		A38-13(0-1)-020817D		1150	6	S										
13		A38-14(0-1)-020817		1205	6	S										
14		A38-15(0-1)-020817		1225	6	S										
15		A38-16(0-1)-020817		1305	6	S										
16		A38-17(0-1)-020817		1310	6	S										
17		A38-18(0-1)-020817		1322	6	S										
18		A38-19(0-1)-020817		1338	6	S										
19		A38-20(0-1)-020817		1355	6	S										
20		FB0-1(0-1)-020817	2/8/17	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
	Weston	2/8/17	1700		TA	2/8/17	1700
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:

2/15/2017

(AE-4124-500 (1209)

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

TestAmerica Job ID: 500-123758-1

Client Sample ID: A38-24(0-1)-021017
Date Collected: 02/10/17 08:45
Date Received: 02/10/17 16:30

Lab Sample ID: 500-123758-1
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	☼	02/11/17 14:38	02/14/17 12:51	1
Benzene	<1.7		1.7	0.44	ug/Kg	☼	02/11/17 14:38	02/14/17 12:51	1
Bromodichloromethane	<1.7		1.7	0.35	ug/Kg	☼	02/11/17 14:38	02/14/17 12:51	1
Bromoform	<1.7		1.7	0.50	ug/Kg	☼	02/11/17 14:38	02/14/17 12:51	1
Bromomethane	<4.3		4.3	1.6	ug/Kg	☼	02/11/17 14:38	02/14/17 12:51	1
Carbon disulfide	<4.3		4.3	0.90	ug/Kg	☼	02/11/17 14:38	02/14/17 12:51	1
Carbon tetrachloride	<1.7		1.7	0.50	ug/Kg	☼	02/11/17 14:38	02/14/17 12:51	1
Chlorobenzene	<1.7		1.7	0.64	ug/Kg	☼	02/11/17 14:38	02/14/17 12:51	1
Chloroethane	<4.3		4.3	1.3	ug/Kg	☼	02/11/17 14:38	02/14/17 12:51	1
Chloroform	<1.7		1.7	0.60	ug/Kg	☼	02/11/17 14:38	02/14/17 12:51	1
Chloromethane	<4.3		4.3	1.7	ug/Kg	☼	02/11/17 14:38	02/14/17 12:51	1
cis-1,2-Dichloroethene	<1.7		1.7	0.48	ug/Kg	☼	02/11/17 14:38	02/14/17 12:51	1
cis-1,3-Dichloropropene	<1.7		1.7	0.52	ug/Kg	☼	02/11/17 14:38	02/14/17 12:51	1
Dibromochloromethane	<1.7		1.7	0.56	ug/Kg	☼	02/11/17 14:38	02/14/17 12:51	1
1,1-Dichloroethane	<1.7		1.7	0.59	ug/Kg	☼	02/11/17 14:38	02/14/17 12:51	1
1,2-Dichloroethane	<4.3		4.3	1.3	ug/Kg	☼	02/11/17 14:38	02/14/17 12:51	1
1,1-Dichloroethene	<1.7		1.7	0.59	ug/Kg	☼	02/11/17 14:38	02/14/17 12:51	1
1,2-Dichloropropane	<1.7		1.7	0.45	ug/Kg	☼	02/11/17 14:38	02/14/17 12:51	1
1,3-Dichloropropene, Total	<1.7		1.7	0.60	ug/Kg	☼	02/11/17 14:38	02/14/17 12:51	1
Ethylbenzene	<1.7		1.7	0.82	ug/Kg	☼	02/11/17 14:38	02/14/17 12:51	1
2-Hexanone	<4.3		4.3	1.3	ug/Kg	☼	02/11/17 14:38	02/14/17 12:51	1
Methylene Chloride	<4.3		4.3	1.7	ug/Kg	☼	02/11/17 14:38	02/14/17 12:51	1
Methyl Ethyl Ketone	<4.3		4.3	1.9	ug/Kg	☼	02/11/17 14:38	02/14/17 12:51	1
methyl isobutyl ketone	<4.3		4.3	1.3	ug/Kg	☼	02/11/17 14:38	02/14/17 12:51	1
Methyl tert-butyl ether	<1.7		1.7	0.51	ug/Kg	☼	02/11/17 14:38	02/14/17 12:51	1
Styrene	<1.7		1.7	0.52	ug/Kg	☼	02/11/17 14:38	02/14/17 12:51	1
1,1,2,2-Tetrachloroethane	<1.7		1.7	0.55	ug/Kg	☼	02/11/17 14:38	02/14/17 12:51	1
Tetrachloroethene	<1.7		1.7	0.59	ug/Kg	☼	02/11/17 14:38	02/14/17 12:51	1
Toluene	<1.7		1.7	0.44	ug/Kg	☼	02/11/17 14:38	02/14/17 12:51	1
trans-1,2-Dichloroethene	<1.7		1.7	0.76	ug/Kg	☼	02/11/17 14:38	02/14/17 12:51	1
trans-1,3-Dichloropropene	<1.7		1.7	0.60	ug/Kg	☼	02/11/17 14:38	02/14/17 12:51	1
1,1,1-Trichloroethane	<1.7		1.7	0.58	ug/Kg	☼	02/11/17 14:38	02/14/17 12:51	1
1,1,2-Trichloroethane	<1.7		1.7	0.74	ug/Kg	☼	02/11/17 14:38	02/14/17 12:51	1
Trichloroethene	<1.7		1.7	0.58	ug/Kg	☼	02/11/17 14:38	02/14/17 12:51	1
Vinyl chloride	<1.7		1.7	0.76	ug/Kg	☼	02/11/17 14:38	02/14/17 12:51	1
Xylenes, Total	<3.4		3.4	0.55	ug/Kg	☼	02/11/17 14:38	02/14/17 12:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 120*	*02/11/17 14:38*	*02/14/17 12:51*	*1*
Dibromofluoromethane	*97*		*75 - 120*	*02/11/17 14:38*	*02/14/17 12:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*69 - 134*	*02/11/17 14:38*	*02/14/17 12:51*	*1*
Toluene-d8 (Surr)	*106*		*75 - 123*	*02/11/17 14:38*	*02/14/17 12:51*	*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	☼	02/16/17 07:05	02/17/17 20:25	1
1,2-Dichlorobenzene	<200		200	47	ug/Kg	☼	02/16/17 07:05	02/17/17 20:25	1
1,3-Dichlorobenzene	<200		200	44	ug/Kg	☼	02/16/17 07:05	02/17/17 20:25	1
1,4-Dichlorobenzene	<200		200	50	ug/Kg	☼	02/16/17 07:05	02/17/17 20:25	1
2,2'-oxybis[1-chloropropane]	<200		200	45	ug/Kg	☼	02/16/17 07:05	02/17/17 20:25	1

Client Sample ID: A38-24(0-1)-021017
Date Collected: 02/10/17 08:45
Date Received: 02/10/17 16:30

Lab Sample ID: 500-123758-1
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	<390		390	89	ug/Kg	☼	02/16/17 07:05	02/17/17 20:25	1
2,4,6-Trichlorophenol	<390		390	130	ug/Kg	☼	02/16/17 07:05	02/17/17 20:25	1
2,4-Dichlorophenol	<390		390	93	ug/Kg	☼	02/16/17 07:05	02/17/17 20:25	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	02/16/17 07:05	02/17/17 20:25	1
2,4-Dinitrophenol	<790	F1	790	690	ug/Kg	☼	02/16/17 07:05	02/17/17 20:25	1
2,4-Dinitrotoluene	<200		200	62	ug/Kg	☼	02/16/17 07:05	02/17/17 20:25	1
2,6-Dinitrotoluene	<200		200	77	ug/Kg	☼	02/16/17 07:05	02/17/17 20:25	1
2-Chloronaphthalene	<200		200	43	ug/Kg	☼	02/16/17 07:05	02/17/17 20:25	1
2-Chlorophenol	<200		200	67	ug/Kg	☼	02/16/17 07:05	02/17/17 20:25	1
2-Methylnaphthalene	<79		79	7.2	ug/Kg	☼	02/16/17 07:05	02/17/17 20:25	1
2-Methylphenol	<200		200	63	ug/Kg	☼	02/16/17 07:05	02/17/17 20:25	1
2-Nitroaniline	<200		200	53	ug/Kg	☼	02/16/17 07:05	02/17/17 20:25	1
2-Nitrophenol	<390		390	92	ug/Kg	☼	02/16/17 07:05	02/17/17 20:25	1
3 & 4 Methylphenol	<200		200	65	ug/Kg	☼	02/16/17 07:05	02/17/17 20:25	1
3,3'-Dichlorobenzidine	<200	* F1 F2	200	55	ug/Kg	☼	02/16/17 07:05	02/17/17 20:25	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	02/16/17 07:05	02/17/17 20:25	1
4,6-Dinitro-2-methylphenol	<790	F1	790	310	ug/Kg	☼	02/16/17 07:05	02/17/17 20:25	1
4-Bromophenyl phenyl ether	<200		200	52	ug/Kg	☼	02/16/17 07:05	02/17/17 20:25	1
4-Chloro-3-methylphenol	<390	F1 F2	390	130	ug/Kg	☼	02/16/17 07:05	02/17/17 20:25	1
4-Chloroaniline	<790		790	180	ug/Kg	☼	02/16/17 07:05	02/17/17 20:25	1
4-Chlorophenyl phenyl ether	<200		200	46	ug/Kg	☼	02/16/17 07:05	02/17/17 20:25	1
4-Nitroaniline	<390		390	160	ug/Kg	☼	02/16/17 07:05	02/17/17 20:25	1
4-Nitrophenol	<790	F1 F2	790	370	ug/Kg	☼	02/16/17 07:05	02/17/17 20:25	1
Acenaphthene	**23**	**J**	39	7.0	ug/Kg	☼	02/16/17 07:05	02/17/17 20:25	1
Acenaphthylene	<39		39	5.2	ug/Kg	☼	02/16/17 07:05	02/17/17 20:25	1
Anthracene	**48**		39	6.5	ug/Kg	☼	02/16/17 07:05	02/17/17 20:25	1
Benzo[a]anthracene	**120**	*	39	5.3	ug/Kg	☼	02/16/17 07:05	02/17/17 20:25	1
Benzo[a]pyrene	**150**	*	39	7.6	ug/Kg	☼	02/16/17 07:05	02/17/17 20:25	1
Benzo[b]fluoranthene	**240**	*	39	8.4	ug/Kg	☼	02/16/17 07:05	02/17/17 20:25	1
Benzo[g,h,i]perylene	**65**	*	39	13	ug/Kg	☼	02/16/17 07:05	02/17/17 20:25	1
Benzo[k]fluoranthene	**76**	*	39	12	ug/Kg	☼	02/16/17 07:05	02/17/17 20:25	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	☼	02/16/17 07:05	02/17/17 20:25	1
Bis(2-chloroethyl)ether	<200		200	59	ug/Kg	☼	02/16/17 07:05	02/17/17 20:25	1
Bis(2-ethylhexyl) phthalate	**130**	**J * F1**	200	71	ug/Kg	☼	02/16/17 07:05	02/17/17 20:25	1
Butyl benzyl phthalate	<200	* F1	200	74	ug/Kg	☼	02/16/17 07:05	02/17/17 20:25	1
Carbazole	<200	*	200	98	ug/Kg	☼	02/16/17 07:05	02/17/17 20:25	1
Chrysene	**150**	*	39	11	ug/Kg	☼	02/16/17 07:05	02/17/17 20:25	1
Dibenz(a,h)anthracene	<39	*	39	7.6	ug/Kg	☼	02/16/17 07:05	02/17/17 20:25	1
Dibenzofuran	<200		200	46	ug/Kg	☼	02/16/17 07:05	02/17/17 20:25	1
Diethyl phthalate	<200		200	66	ug/Kg	☼	02/16/17 07:05	02/17/17 20:25	1
Dimethyl phthalate	<200		200	51	ug/Kg	☼	02/16/17 07:05	02/17/17 20:25	1
Di-n-butyl phthalate	<200		200	60	ug/Kg	☼	02/16/17 07:05	02/17/17 20:25	1
Di-n-octyl phthalate	<200	F1	200	64	ug/Kg	☼	02/16/17 07:05	02/17/17 20:25	1
Fluoranthene	**230**		39	7.2	ug/Kg	☼	02/16/17 07:05	02/17/17 20:25	1
Fluorene	**17**	**J**	39	5.5	ug/Kg	☼	02/16/17 07:05	02/17/17 20:25	1
Hexachlorobenzene	<79		79	9.1	ug/Kg	☼	02/16/17 07:05	02/17/17 20:25	1
Hexachlorobutadiene	<200		200	61	ug/Kg	☼	02/16/17 07:05	02/17/17 20:25	1
Hexachlorocyclopentadiene	<790	F1	790	220	ug/Kg	☼	02/16/17 07:05	02/17/17 20:25	1
Hexachloroethane	<200	F1	200	59	ug/Kg	☼	02/16/17 07:05	02/17/17 20:25	1

Client Sample ID: A38-24(0-1)-021017
Date Collected: 02/10/17 08:45
Date Received: 02/10/17 16:30

Lab Sample ID: 500-123758-1
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	**43**	*	39	10	ug/Kg	☼	02/16/17 07:05	02/17/17 20:25	1
Isophorone	<200		200	44	ug/Kg	☼	02/16/17 07:05	02/17/17 20:25	1
Naphthalene	**14**	J	39	6.0	ug/Kg	☼	02/16/17 07:05	02/17/17 20:25	1
Nitrobenzene	<39		39	9.8	ug/Kg	☼	02/16/17 07:05	02/17/17 20:25	1
N-Nitrosodi-n-propylamine	<79		79	48	ug/Kg	☼	02/16/17 07:05	02/17/17 20:25	1
N-Nitrosodiphenylamine	<200		200	46	ug/Kg	☼	02/16/17 07:05	02/17/17 20:25	1
Pentachlorophenol	<790		790	630	ug/Kg	☼	02/16/17 07:05	02/17/17 20:25	1
Phenanthrene	**190**		39	5.4	ug/Kg	☼	02/16/17 07:05	02/17/17 20:25	1
Phenol	<200		200	87	ug/Kg	☼	02/16/17 07:05	02/17/17 20:25	1
Pyrene	**400**	* F1	39	7.8	ug/Kg	☼	02/16/17 07:05	02/17/17 20:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*91*		*25 - 130*	*02/16/17 07:05*	*02/17/17 20:25*	*1*
2-Fluorobiphenyl	*96*		*42 - 115*	*02/16/17 07:05*	*02/17/17 20:25*	*1*
2-Fluorophenol	*89*		*40 - 130*	*02/16/17 07:05*	*02/17/17 20:25*	*1*
Nitrobenzene-d5	*81*		*33 - 124*	*02/16/17 07:05*	*02/17/17 20:25*	*1*
Phenol-d5	*77*		*36 - 123*	*02/16/17 07:05*	*02/17/17 20:25*	*1*
Terphenyl-d14	*168*	*X	*25 - 150*	*02/16/17 07:05*	*02/17/17 20:25*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/17/17 14:00	02/18/17 16:47	1
Barium	**0.22**	J	0.50	0.050	mg/L		02/17/17 14:00	02/18/17 16:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/17/17 14:00	02/18/17 16:47	1
Cadmium	**0.0020**	J	0.0050	0.0020	mg/L		02/17/17 14:00	02/18/17 16:47	1
Chromium	<0.025		0.025	0.010	mg/L		02/17/17 14:00	02/18/17 16:47	1
Cobalt	<0.025		0.025	0.010	mg/L		02/17/17 14:00	02/18/17 16:47	1
Copper	**0.016**	J	0.025	0.010	mg/L		02/17/17 14:00	02/18/17 16:47	1
Iron	<0.40		0.40	0.20	mg/L		02/17/17 14:00	02/18/17 16:47	1
Lead	**0.0081**		0.0075	0.0075	mg/L		02/17/17 14:00	02/18/17 16:47	1
Manganese	**0.92**		0.025	0.010	mg/L		02/17/17 14:00	02/18/17 16:47	1
Nickel	**0.023**	J	0.025	0.010	mg/L		02/17/17 14:00	02/18/17 16:47	1
Selenium	<0.050		0.050	0.020	mg/L		02/17/17 14:00	02/18/17 16:47	1
Silver	<0.025		0.025	0.010	mg/L		02/17/17 14:00	02/18/17 16:47	1
Zinc	**0.070**	J	0.50	0.020	mg/L		02/17/17 14:00	02/18/17 16:47	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		02/16/17 14:05	02/18/17 15:34	1
Barium	**0.36**	J	0.50	0.050	mg/L		02/16/17 14:05	02/18/17 15:34	1
Beryllium	**0.0065**		0.0040	0.0040	mg/L		02/16/17 14:05	02/18/17 15:34	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/16/17 14:05	02/18/17 15:34	1
Chromium	**0.16**		0.025	0.010	mg/L		02/16/17 14:05	02/18/17 15:34	1
Cobalt	**0.038**		0.025	0.010	mg/L		02/16/17 14:05	02/18/17 15:34	1
Copper	**0.18**		0.025	0.010	mg/L		02/16/17 14:05	02/18/17 15:34	1
Iron	**160**		0.40	0.20	mg/L		02/16/17 14:05	02/18/17 15:34	1
Lead	**0.23**		0.0075	0.0075	mg/L		02/16/17 14:05	02/18/17 15:34	1
Manganese	**0.74**		0.025	0.010	mg/L		02/16/17 14:05	02/18/17 15:34	1
Nickel	**0.17**		0.025	0.010	mg/L		02/16/17 14:05	02/18/17 15:34	1
Selenium	<0.050		0.050	0.020	mg/L		02/16/17 14:05	02/18/17 15:34	1

Client Sample ID: A38-24(0-1)-021017
Date Collected: 02/10/17 08:45
Date Received: 02/10/17 16:30

Lab Sample ID: 500-123758-1
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		02/16/17 14:05	02/18/17 15:34	1
Zinc	**0.50**		0.50	0.020	mg/L		02/16/17 14:05	02/18/17 15:34	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1	F1	1.1	0.22	mg/Kg	☼	02/17/17 08:35	02/17/17 20:25	1
Arsenic	**6.3**		0.53	0.24	mg/Kg	☼	02/17/17 08:35	02/17/17 20:25	1
Barium	**43**		0.53	0.097	mg/Kg	☼	02/17/17 08:35	02/17/17 20:25	1
Beryllium	**0.67**		0.21	0.046	mg/Kg	☼	02/17/17 08:35	02/17/17 20:25	1
Cadmium	**0.28**		0.11	0.031	mg/Kg	☼	02/17/17 08:35	02/17/17 20:25	1
Calcium	**24000**	**F2 B**	11	3.4	mg/Kg	☼	02/17/17 08:35	02/17/17 20:25	1
Chromium	**20**		0.53	0.091	mg/Kg	☼	02/17/17 08:35	02/17/17 20:25	1
Cobalt	**11**		0.26	0.060	mg/Kg	☼	02/17/17 08:35	02/17/17 20:25	1
Copper	**24**	**F1**	0.53	0.11	mg/Kg	☼	02/17/17 08:35	02/17/17 20:25	1
Iron	**18000**	**B**	11	4.1	mg/Kg	☼	02/17/17 08:35	02/17/17 20:25	1
Lead	**75**	**B**	0.26	0.13	mg/Kg	☼	02/17/17 08:35	02/17/17 20:25	1
Magnesium	**17000**	**B**	5.3	2.1	mg/Kg	☼	02/17/17 08:35	02/17/17 20:25	1
Manganese	**350**		0.53	0.10	mg/Kg	☼	02/17/17 08:35	02/17/17 20:25	1
Nickel	**28**		0.53	0.14	mg/Kg	☼	02/17/17 08:35	02/17/17 20:25	1
Potassium	**1700**	**F1**	26	4.3	mg/Kg	☼	02/17/17 08:35	02/17/17 20:25	1
Selenium	**0.32**	**J F1**	0.53	0.26	mg/Kg	☼	02/17/17 08:35	02/17/17 20:25	1
Silver	<0.26	F1	0.26	0.062	mg/Kg	☼	02/17/17 08:35	02/17/17 20:25	1
Sodium	**1500**		53	7.0	mg/Kg	☼	02/17/17 08:35	02/17/17 20:25	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	02/17/17 08:35	02/17/17 20:25	1
Vanadium	**20**		0.26	0.077	mg/Kg	☼	02/17/17 08:35	02/17/17 20:25	1
Zinc	**100**	**F1 B**	1.1	0.33	mg/Kg	☼	02/17/17 08:35	02/17/17 20:25	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 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		02/16/17 12:45	02/17/17 11:20	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**37**		18	9.4	ug/Kg	☼	02/15/17 16:00	02/16/17 12:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.5**		0.2	0.2	SU			02/17/17 16:34	1

Client Sample ID: A38-24(0-1)-021017D
Date Collected: 02/10/17 08:45
Date Received: 02/10/17 16:30

Lab Sample ID: 500-123758-2
Matrix: Solid
Percent Solids: 81.6

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	☼	02/11/17 14:38	02/14/17 13:16	1
Benzene	<1.7		1.7	0.43	ug/Kg	☼	02/11/17 14:38	02/14/17 13:16	1
Bromodichloromethane	<1.7		1.7	0.35	ug/Kg	☼	02/11/17 14:38	02/14/17 13:16	1
Bromoform	<1.7		1.7	0.50	ug/Kg	☼	02/11/17 14:38	02/14/17 13:16	1
Bromomethane	<4.2		4.2	1.6	ug/Kg	☼	02/11/17 14:38	02/14/17 13:16	1
Carbon disulfide	<4.2		4.2	0.88	ug/Kg	☼	02/11/17 14:38	02/14/17 13:16	1
Carbon tetrachloride	<1.7		1.7	0.49	ug/Kg	☼	02/11/17 14:38	02/14/17 13:16	1
Chlorobenzene	<1.7		1.7	0.63	ug/Kg	☼	02/11/17 14:38	02/14/17 13:16	1
Chloroethane	<4.2		4.2	1.3	ug/Kg	☼	02/11/17 14:38	02/14/17 13:16	1
Chloroform	<1.7		1.7	0.59	ug/Kg	☼	02/11/17 14:38	02/14/17 13:16	1
Chloromethane	<4.2		4.2	1.7	ug/Kg	☼	02/11/17 14:38	02/14/17 13:16	1
cis-1,2-Dichloroethene	<1.7		1.7	0.47	ug/Kg	☼	02/11/17 14:38	02/14/17 13:16	1
cis-1,3-Dichloropropene	<1.7		1.7	0.51	ug/Kg	☼	02/11/17 14:38	02/14/17 13:16	1
Dibromochloromethane	<1.7		1.7	0.56	ug/Kg	☼	02/11/17 14:38	02/14/17 13:16	1
1,1-Dichloroethane	<1.7		1.7	0.58	ug/Kg	☼	02/11/17 14:38	02/14/17 13:16	1
1,2-Dichloroethane	<4.2		4.2	1.3	ug/Kg	☼	02/11/17 14:38	02/14/17 13:16	1
1,1-Dichloroethene	<1.7		1.7	0.58	ug/Kg	☼	02/11/17 14:38	02/14/17 13:16	1
1,2-Dichloropropane	<1.7		1.7	0.44	ug/Kg	☼	02/11/17 14:38	02/14/17 13:16	1
1,3-Dichloropropene, Total	<1.7		1.7	0.60	ug/Kg	☼	02/11/17 14:38	02/14/17 13:16	1
Ethylbenzene	<1.7		1.7	0.81	ug/Kg	☼	02/11/17 14:38	02/14/17 13:16	1
2-Hexanone	<4.2		4.2	1.3	ug/Kg	☼	02/11/17 14:38	02/14/17 13:16	1
Methylene Chloride	<4.2		4.2	1.7	ug/Kg	☼	02/11/17 14:38	02/14/17 13:16	1
Methyl Ethyl Ketone	<4.2		4.2	1.9	ug/Kg	☼	02/11/17 14:38	02/14/17 13:16	1
methyl isobutyl ketone	<4.2		4.2	1.3	ug/Kg	☼	02/11/17 14:38	02/14/17 13:16	1
Methyl tert-butyl ether	<1.7		1.7	0.50	ug/Kg	☼	02/11/17 14:38	02/14/17 13:16	1
Styrene	<1.7		1.7	0.51	ug/Kg	☼	02/11/17 14:38	02/14/17 13:16	1
1,1,2,2-Tetrachloroethane	<1.7		1.7	0.54	ug/Kg	☼	02/11/17 14:38	02/14/17 13:16	1
Tetrachloroethene	<1.7		1.7	0.58	ug/Kg	☼	02/11/17 14:38	02/14/17 13:16	1
Toluene	<1.7		1.7	0.43	ug/Kg	☼	02/11/17 14:38	02/14/17 13:16	1
trans-1,2-Dichloroethene	<1.7		1.7	0.75	ug/Kg	☼	02/11/17 14:38	02/14/17 13:16	1
trans-1,3-Dichloropropene	<1.7		1.7	0.60	ug/Kg	☼	02/11/17 14:38	02/14/17 13:16	1
1,1,1-Trichloroethane	<1.7		1.7	0.57	ug/Kg	☼	02/11/17 14:38	02/14/17 13:16	1
1,1,2-Trichloroethane	<1.7		1.7	0.73	ug/Kg	☼	02/11/17 14:38	02/14/17 13:16	1
Trichloroethene	<1.7		1.7	0.57	ug/Kg	☼	02/11/17 14:38	02/14/17 13:16	1
Vinyl chloride	<1.7		1.7	0.75	ug/Kg	☼	02/11/17 14:38	02/14/17 13:16	1
Xylenes, Total	<3.4		3.4	0.54	ug/Kg	☼	02/11/17 14:38	02/14/17 13:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 120*	*02/11/17 14:38*	*02/14/17 13:16*	*1*
Dibromofluoromethane	*95*		*75 - 120*	*02/11/17 14:38*	*02/14/17 13:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*69 - 134*	*02/11/17 14:38*	*02/14/17 13:16*	*1*
Toluene-d8 (Surr)	*108*		*75 - 123*	*02/11/17 14:38*	*02/14/17 13:16*	*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	☼	02/16/17 07:05	02/17/17 15:32	1
1,2-Dichlorobenzene	<200		200	47	ug/Kg	☼	02/16/17 07:05	02/17/17 15:32	1
1,3-Dichlorobenzene	<200		200	44	ug/Kg	☼	02/16/17 07:05	02/17/17 15:32	1
1,4-Dichlorobenzene	<200		200	50	ug/Kg	☼	02/16/17 07:05	02/17/17 15:32	1
2,2'-oxybis[1-chloropropane]	<200		200	45	ug/Kg	☼	02/16/17 07:05	02/17/17 15:32	1

Client Sample ID: A38-24(0-1)-021017D
Date Collected: 02/10/17 08:45
Date Received: 02/10/17 16:30

Lab Sample ID: 500-123758-2
Matrix: Solid
Percent Solids: 81.6

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	☼	02/16/17 07:05	02/17/17 15:32	1
2,4,6-Trichlorophenol	<390		390	130	ug/Kg	☼	02/16/17 07:05	02/17/17 15:32	1
2,4-Dichlorophenol	<390		390	93	ug/Kg	☼	02/16/17 07:05	02/17/17 15:32	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	02/16/17 07:05	02/17/17 15:32	1
2,4-Dinitrophenol	<790		790	690	ug/Kg	☼	02/16/17 07:05	02/17/17 15:32	1
2,4-Dinitrotoluene	<200		200	62	ug/Kg	☼	02/16/17 07:05	02/17/17 15:32	1
2,6-Dinitrotoluene	<200		200	77	ug/Kg	☼	02/16/17 07:05	02/17/17 15:32	1
2-Chloronaphthalene	<200		200	43	ug/Kg	☼	02/16/17 07:05	02/17/17 15:32	1
2-Chlorophenol	<200		200	67	ug/Kg	☼	02/16/17 07:05	02/17/17 15:32	1
2-Methylnaphthalene	<79		79	7.2	ug/Kg	☼	02/16/17 07:05	02/17/17 15:32	1
2-Methylphenol	<200		200	63	ug/Kg	☼	02/16/17 07:05	02/17/17 15:32	1
2-Nitroaniline	<200		200	53	ug/Kg	☼	02/16/17 07:05	02/17/17 15:32	1
2-Nitrophenol	<390		390	93	ug/Kg	☼	02/16/17 07:05	02/17/17 15:32	1
3 & 4 Methylphenol	<200		200	65	ug/Kg	☼	02/16/17 07:05	02/17/17 15:32	1
3,3'-Dichlorobenzidine	<200		200	55	ug/Kg	☼	02/16/17 07:05	02/17/17 15:32	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	02/16/17 07:05	02/17/17 15:32	1
4,6-Dinitro-2-methylphenol	<790		790	320	ug/Kg	☼	02/16/17 07:05	02/17/17 15:32	1
4-Bromophenyl phenyl ether	<200		200	52	ug/Kg	☼	02/16/17 07:05	02/17/17 15:32	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	02/16/17 07:05	02/17/17 15:32	1
4-Chloroaniline	<790		790	180	ug/Kg	☼	02/16/17 07:05	02/17/17 15:32	1
4-Chlorophenyl phenyl ether	<200		200	46	ug/Kg	☼	02/16/17 07:05	02/17/17 15:32	1
4-Nitroaniline	<390		390	160	ug/Kg	☼	02/16/17 07:05	02/17/17 15:32	1
4-Nitrophenol	<790		790	370	ug/Kg	☼	02/16/17 07:05	02/17/17 15:32	1
Acenaphthene	<39		39	7.0	ug/Kg	☼	02/16/17 07:05	02/17/17 15:32	1
Acenaphthylene	<39		39	5.2	ug/Kg	☼	02/16/17 07:05	02/17/17 15:32	1
Anthracene	**13**	**J**	39	6.5	ug/Kg	☼	02/16/17 07:05	02/17/17 15:32	1
Benzo[a]anthracene	**54**		39	5.3	ug/Kg	☼	02/16/17 07:05	02/17/17 15:32	1
Benzo[a]pyrene	**55**		39	7.6	ug/Kg	☼	02/16/17 07:05	02/17/17 15:32	1
Benzo[b]fluoranthene	**97**		39	8.5	ug/Kg	☼	02/16/17 07:05	02/17/17 15:32	1
Benzo[g,h,i]perylene	**28**	**J**	39	13	ug/Kg	☼	02/16/17 07:05	02/17/17 15:32	1
Benzo[k]fluoranthene	**29**	**J**	39	12	ug/Kg	☼	02/16/17 07:05	02/17/17 15:32	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	☼	02/16/17 07:05	02/17/17 15:32	1
Bis(2-chloroethyl)ether	<200		200	59	ug/Kg	☼	02/16/17 07:05	02/17/17 15:32	1
Bis(2-ethylhexyl) phthalate	<200		200	72	ug/Kg	☼	02/16/17 07:05	02/17/17 15:32	1
Butyl benzyl phthalate	<200		200	75	ug/Kg	☼	02/16/17 07:05	02/17/17 15:32	1
Carbazole	<200	*	200	98	ug/Kg	☼	02/16/17 07:05	02/17/17 15:32	1
Chrysene	**53**		39	11	ug/Kg	☼	02/16/17 07:05	02/17/17 15:32	1
Dibenz(a,h)anthracene	<39		39	7.6	ug/Kg	☼	02/16/17 07:05	02/17/17 15:32	1
Dibenzofuran	<200		200	46	ug/Kg	☼	02/16/17 07:05	02/17/17 15:32	1
Diethyl phthalate	<200		200	66	ug/Kg	☼	02/16/17 07:05	02/17/17 15:32	1
Dimethyl phthalate	<200		200	51	ug/Kg	☼	02/16/17 07:05	02/17/17 15:32	1
Di-n-butyl phthalate	<200		200	60	ug/Kg	☼	02/16/17 07:05	02/17/17 15:32	1
Di-n-octyl phthalate	<200		200	64	ug/Kg	☼	02/16/17 07:05	02/17/17 15:32	1
Fluoranthene	**100**		39	7.3	ug/Kg	☼	02/16/17 07:05	02/17/17 15:32	1
Fluorene	<39		39	5.5	ug/Kg	☼	02/16/17 07:05	02/17/17 15:32	1
Hexachlorobenzene	<79		79	9.1	ug/Kg	☼	02/16/17 07:05	02/17/17 15:32	1
Hexachlorobutadiene	<200		200	62	ug/Kg	☼	02/16/17 07:05	02/17/17 15:32	1
Hexachlorocyclopentadiene	<790		790	230	ug/Kg	☼	02/16/17 07:05	02/17/17 15:32	1
Hexachloroethane	<200		200	60	ug/Kg	☼	02/16/17 07:05	02/17/17 15:32	1

Client Sample ID: A38-24(0-1)-021017D
Date Collected: 02/10/17 08:45
Date Received: 02/10/17 16:30

Lab Sample ID: 500-123758-2
Matrix: Solid
Percent Solids: 81.6

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	**21**	**J**	39	10	ug/Kg	☼	02/16/17 07:05	02/17/17 15:32	1
Isophorone	<200		200	44	ug/Kg	☼	02/16/17 07:05	02/17/17 15:32	1
Naphthalene	<39		39	6.0	ug/Kg	☼	02/16/17 07:05	02/17/17 15:32	1
Nitrobenzene	<39		39	9.8	ug/Kg	☼	02/16/17 07:05	02/17/17 15:32	1
N-Nitrosodi-n-propylamine	<79		79	48	ug/Kg	☼	02/16/17 07:05	02/17/17 15:32	1
N-Nitrosodiphenylamine	<200		200	46	ug/Kg	☼	02/16/17 07:05	02/17/17 15:32	1
Pentachlorophenol	<790		790	630	ug/Kg	☼	02/16/17 07:05	02/17/17 15:32	1
Phenanthrene	**49**		39	5.5	ug/Kg	☼	02/16/17 07:05	02/17/17 15:32	1
Phenol	<200		200	87	ug/Kg	☼	02/16/17 07:05	02/17/17 15:32	1
Pyrene	**96**		39	7.8	ug/Kg	☼	02/16/17 07:05	02/17/17 15:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*77*		*25 - 130*	*02/16/17 07:05*	*02/17/17 15:32*	*1*
2-Fluorobiphenyl	*110*		*42 - 115*	*02/16/17 07:05*	*02/17/17 15:32*	*1*
2-Fluorophenol	*96*		*40 - 130*	*02/16/17 07:05*	*02/17/17 15:32*	*1*
Nitrobenzene-d5	*86*		*33 - 124*	*02/16/17 07:05*	*02/17/17 15:32*	*1*
Phenol-d5	*88*		*36 - 123*	*02/16/17 07:05*	*02/17/17 15:32*	*1*
Terphenyl-d14	*103*		*25 - 150*	*02/16/17 07:05*	*02/17/17 15:32*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/17/17 14:00	02/18/17 16:51	1
Barium	**0.23**	**J**	0.50	0.050	mg/L		02/17/17 14:00	02/18/17 16:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/17/17 14:00	02/18/17 16:51	1
Cadmium	**0.0028**	**J**	0.0050	0.0020	mg/L		02/17/17 14:00	02/18/17 16:51	1
Chromium	<0.025		0.025	0.010	mg/L		02/17/17 14:00	02/18/17 16:51	1
Cobalt	<0.025		0.025	0.010	mg/L		02/17/17 14:00	02/18/17 16:51	1
Copper	<0.025		0.025	0.010	mg/L		02/17/17 14:00	02/18/17 16:51	1
Iron	<0.40		0.40	0.20	mg/L		02/17/17 14:00	02/18/17 16:51	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/17/17 14:00	02/18/17 16:51	1
Manganese	**0.78**		0.025	0.010	mg/L		02/17/17 14:00	02/18/17 16:51	1
Nickel	<0.025		0.025	0.010	mg/L		02/17/17 14:00	02/18/17 16:51	1
Selenium	<0.050		0.050	0.020	mg/L		02/17/17 14:00	02/18/17 16:51	1
Silver	<0.025		0.025	0.010	mg/L		02/17/17 14:00	02/18/17 16:51	1
Zinc	**0.074**	**J**	0.50	0.020	mg/L		02/17/17 14:00	02/18/17 16:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.056**		0.050	0.010	mg/L		02/16/17 14:05	02/18/17 15:39	1
Barium	**0.41**	**J**	0.50	0.050	mg/L		02/16/17 14:05	02/18/17 15:39	1
Beryllium	**0.0070**		0.0040	0.0040	mg/L		02/16/17 14:05	02/18/17 15:39	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/16/17 14:05	02/18/17 15:39	1
Chromium	**0.16**		0.025	0.010	mg/L		02/16/17 14:05	02/18/17 15:39	1
Cobalt	**0.044**		0.025	0.010	mg/L		02/16/17 14:05	02/18/17 15:39	1
Copper	**0.18**		0.025	0.010	mg/L		02/16/17 14:05	02/18/17 15:39	1
Iron	**160**		0.40	0.20	mg/L		02/16/17 14:05	02/18/17 15:39	1
Lead	**0.25**		0.0075	0.0075	mg/L		02/16/17 14:05	02/18/17 15:39	1
Manganese	**0.90**		0.025	0.010	mg/L		02/16/17 14:05	02/18/17 15:39	1
Nickel	**0.18**		0.025	0.010	mg/L		02/16/17 14:05	02/18/17 15:39	1
Selenium	<0.050		0.050	0.020	mg/L		02/16/17 14:05	02/18/17 15:39	1

Client Sample ID: A38-24(0-1)-021017D
Date Collected: 02/10/17 08:45
Date Received: 02/10/17 16:30

Lab Sample ID: 500-123758-2
Matrix: Solid
Percent Solids: 81.6

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 15:39	1
Zinc	**0.58**		0.50	0.020	mg/L		02/16/17 14:05	02/18/17 15:39	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 20:48	1
Arsenic	**6.5**		0.53	0.25	mg/Kg	☼	02/17/17 08:35	02/17/17 20:48	1
Barium	**51**		0.53	0.098	mg/Kg	☼	02/17/17 08:35	02/17/17 20:48	1
Beryllium	**0.64**		0.21	0.046	mg/Kg	☼	02/17/17 08:35	02/17/17 20:48	1
Cadmium	**0.41**		0.11	0.031	mg/Kg	☼	02/17/17 08:35	02/17/17 20:48	1
Calcium	**23000**	**B**	11	3.4	mg/Kg	☼	02/17/17 08:35	02/17/17 20:48	1
Chromium	**18**		0.53	0.092	mg/Kg	☼	02/17/17 08:35	02/17/17 20:48	1
Cobalt	**11**		0.27	0.060	mg/Kg	☼	02/17/17 08:35	02/17/17 20:48	1
Copper	**23**		0.53	0.12	mg/Kg	☼	02/17/17 08:35	02/17/17 20:48	1
Iron	**18000**	**B**	11	4.1	mg/Kg	☼	02/17/17 08:35	02/17/17 20:48	1
Lead	**77**	**B**	0.27	0.13	mg/Kg	☼	02/17/17 08:35	02/17/17 20:48	1
Magnesium	**17000**	**B**	5.3	2.2	mg/Kg	☼	02/17/17 08:35	02/17/17 20:48	1
Manganese	**370**		0.53	0.11	mg/Kg	☼	02/17/17 08:35	02/17/17 20:48	1
Nickel	**28**		0.53	0.14	mg/Kg	☼	02/17/17 08:35	02/17/17 20:48	1
Potassium	**1600**		27	4.4	mg/Kg	☼	02/17/17 08:35	02/17/17 20:48	1
Selenium	**0.56**		0.53	0.26	mg/Kg	☼	02/17/17 08:35	02/17/17 20:48	1
Silver	<0.27		0.27	0.063	mg/Kg	☼	02/17/17 08:35	02/17/17 20:48	1
Sodium	**1600**		53	7.1	mg/Kg	☼	02/17/17 08:35	02/17/17 20:48	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	02/17/17 08:35	02/17/17 20:48	1
Vanadium	**21**		0.27	0.078	mg/Kg	☼	02/17/17 08:35	02/17/17 20:48	1
Zinc	**96**	**B**	1.1	0.34	mg/Kg	☼	02/17/17 08:35	02/17/17 20:48	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 12:06	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 11:27	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**37**		20	10	ug/Kg	☼	02/15/17 16:00	02/16/17 12:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.3**		0.2	0.2	SU			02/17/17 16:36	1

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

TestAmerica Job ID: 500-123758-1

Client Sample ID: A38-25(0-1)-021017
Date Collected: 02/10/17 09:00
Date Received: 02/10/17 16:30

Lab Sample ID: 500-123758-3
Matrix: Solid
Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<17		17	7.2	ug/Kg	☼	02/11/17 14:38	02/14/17 13:41	1
Benzene	<1.7		1.7	0.42	ug/Kg	☼	02/11/17 14:38	02/14/17 13:41	1
Bromodichloromethane	<1.7		1.7	0.34	ug/Kg	☼	02/11/17 14:38	02/14/17 13:41	1
Bromoform	<1.7		1.7	0.48	ug/Kg	☼	02/11/17 14:38	02/14/17 13:41	1
Bromomethane	<4.1		4.1	1.6	ug/Kg	☼	02/11/17 14:38	02/14/17 13:41	1
Carbon disulfide	<4.1		4.1	0.86	ug/Kg	☼	02/11/17 14:38	02/14/17 13:41	1
Carbon tetrachloride	<1.7		1.7	0.48	ug/Kg	☼	02/11/17 14:38	02/14/17 13:41	1
Chlorobenzene	<1.7		1.7	0.61	ug/Kg	☼	02/11/17 14:38	02/14/17 13:41	1
Chloroethane	<4.1		4.1	1.2	ug/Kg	☼	02/11/17 14:38	02/14/17 13:41	1
Chloroform	<1.7		1.7	0.57	ug/Kg	☼	02/11/17 14:38	02/14/17 13:41	1
Chloromethane	<4.1		4.1	1.7	ug/Kg	☼	02/11/17 14:38	02/14/17 13:41	1
cis-1,2-Dichloroethene	<1.7		1.7	0.46	ug/Kg	☼	02/11/17 14:38	02/14/17 13:41	1
cis-1,3-Dichloropropene	<1.7		1.7	0.50	ug/Kg	☼	02/11/17 14:38	02/14/17 13:41	1
Dibromochloromethane	<1.7		1.7	0.54	ug/Kg	☼	02/11/17 14:38	02/14/17 13:41	1
1,1-Dichloroethane	<1.7		1.7	0.57	ug/Kg	☼	02/11/17 14:38	02/14/17 13:41	1
1,2-Dichloroethane	<4.1		4.1	1.3	ug/Kg	☼	02/11/17 14:38	02/14/17 13:41	1
1,1-Dichloroethene	<1.7		1.7	0.57	ug/Kg	☼	02/11/17 14:38	02/14/17 13:41	1
1,2-Dichloropropane	<1.7		1.7	0.43	ug/Kg	☼	02/11/17 14:38	02/14/17 13:41	1
1,3-Dichloropropene, Total	<1.7		1.7	0.58	ug/Kg	☼	02/11/17 14:38	02/14/17 13:41	1
Ethylbenzene	<1.7		1.7	0.79	ug/Kg	☼	02/11/17 14:38	02/14/17 13:41	1
2-Hexanone	<4.1		4.1	1.3	ug/Kg	☼	02/11/17 14:38	02/14/17 13:41	1
Methylene Chloride	<4.1		4.1	1.6	ug/Kg	☼	02/11/17 14:38	02/14/17 13:41	1
Methyl Ethyl Ketone	<4.1		4.1	1.8	ug/Kg	☼	02/11/17 14:38	02/14/17 13:41	1
methyl isobutyl ketone	<4.1		4.1	1.2	ug/Kg	☼	02/11/17 14:38	02/14/17 13:41	1
Methyl tert-butyl ether	<1.7		1.7	0.48	ug/Kg	☼	02/11/17 14:38	02/14/17 13:41	1
Styrene	<1.7		1.7	0.50	ug/Kg	☼	02/11/17 14:38	02/14/17 13:41	1
1,1,2,2-Tetrachloroethane	<1.7		1.7	0.53	ug/Kg	☼	02/11/17 14:38	02/14/17 13:41	1
Tetrachloroethene	<1.7		1.7	0.56	ug/Kg	☼	02/11/17 14:38	02/14/17 13:41	1
Toluene	<1.7		1.7	0.42	ug/Kg	☼	02/11/17 14:38	02/14/17 13:41	1
trans-1,2-Dichloroethene	<1.7		1.7	0.73	ug/Kg	☼	02/11/17 14:38	02/14/17 13:41	1
trans-1,3-Dichloropropene	<1.7		1.7	0.58	ug/Kg	☼	02/11/17 14:38	02/14/17 13:41	1
1,1,1-Trichloroethane	<1.7		1.7	0.55	ug/Kg	☼	02/11/17 14:38	02/14/17 13:41	1
1,1,2-Trichloroethane	<1.7		1.7	0.71	ug/Kg	☼	02/11/17 14:38	02/14/17 13:41	1
Trichloroethene	<1.7		1.7	0.56	ug/Kg	☼	02/11/17 14:38	02/14/17 13:41	1
Vinyl chloride	<1.7		1.7	0.73	ug/Kg	☼	02/11/17 14:38	02/14/17 13:41	1
Xylenes, Total	<3.3		3.3	0.53	ug/Kg	☼	02/11/17 14:38	02/14/17 13:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 120*	*02/11/17 14:38*	*02/14/17 13:41*	*1*
Dibromofluoromethane	*98*		*75 - 120*	*02/11/17 14:38*	*02/14/17 13:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*69 - 134*	*02/11/17 14:38*	*02/14/17 13:41*	*1*
Toluene-d8 (Surr)	*108*		*75 - 123*	*02/11/17 14:38*	*02/14/17 13:41*	*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	☼	02/16/17 07:05	02/17/17 14:12	1
1,2-Dichlorobenzene	<200		200	46	ug/Kg	☼	02/16/17 07:05	02/17/17 14:12	1
1,3-Dichlorobenzene	<200		200	44	ug/Kg	☼	02/16/17 07:05	02/17/17 14:12	1
1,4-Dichlorobenzene	<200		200	50	ug/Kg	☼	02/16/17 07:05	02/17/17 14:12	1
2,2'-oxybis[1-chloropropane]	<200		200	45	ug/Kg	☼	02/16/17 07:05	02/17/17 14:12	1

Client Sample ID: A38-25(0-1)-021017
Date Collected: 02/10/17 09:00
Date Received: 02/10/17 16:30

Lab Sample ID: 500-123758-3
Matrix: Solid
Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<390		390	89	ug/Kg	☼	02/16/17 07:05	02/17/17 14:12	1
2,4,6-Trichlorophenol	<390		390	130	ug/Kg	☼	02/16/17 07:05	02/17/17 14:12	1
2,4-Dichlorophenol	<390		390	92	ug/Kg	☼	02/16/17 07:05	02/17/17 14:12	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	02/16/17 07:05	02/17/17 14:12	1
2,4-Dinitrophenol	<780		780	680	ug/Kg	☼	02/16/17 07:05	02/17/17 14:12	1
2,4-Dinitrotoluene	<200		200	62	ug/Kg	☼	02/16/17 07:05	02/17/17 14:12	1
2,6-Dinitrotoluene	<200		200	76	ug/Kg	☼	02/16/17 07:05	02/17/17 14:12	1
2-Chloronaphthalene	<200		200	43	ug/Kg	☼	02/16/17 07:05	02/17/17 14:12	1
2-Chlorophenol	<200		200	66	ug/Kg	☼	02/16/17 07:05	02/17/17 14:12	1
2-Methylnaphthalene	<78		78	7.1	ug/Kg	☼	02/16/17 07:05	02/17/17 14:12	1
2-Methylphenol	<200		200	62	ug/Kg	☼	02/16/17 07:05	02/17/17 14:12	1
2-Nitroaniline	<200		200	52	ug/Kg	☼	02/16/17 07:05	02/17/17 14:12	1
2-Nitrophenol	<390		390	92	ug/Kg	☼	02/16/17 07:05	02/17/17 14:12	1
3 & 4 Methylphenol	<200		200	65	ug/Kg	☼	02/16/17 07:05	02/17/17 14:12	1
3,3'-Dichlorobenzidine	<200		200	54	ug/Kg	☼	02/16/17 07:05	02/17/17 14:12	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	02/16/17 07:05	02/17/17 14:12	1
4,6-Dinitro-2-methylphenol	<780		780	310	ug/Kg	☼	02/16/17 07:05	02/17/17 14:12	1
4-Bromophenyl phenyl ether	<200		200	51	ug/Kg	☼	02/16/17 07:05	02/17/17 14:12	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	02/16/17 07:05	02/17/17 14:12	1
4-Chloroaniline	<780		780	180	ug/Kg	☼	02/16/17 07:05	02/17/17 14:12	1
4-Chlorophenyl phenyl ether	<200		200	45	ug/Kg	☼	02/16/17 07:05	02/17/17 14:12	1
4-Nitroaniline	<390		390	160	ug/Kg	☼	02/16/17 07:05	02/17/17 14:12	1
4-Nitrophenol	<780		780	370	ug/Kg	☼	02/16/17 07:05	02/17/17 14:12	1
Acenaphthene	**16**	**J**	39	7.0	ug/Kg	☼	02/16/17 07:05	02/17/17 14:12	1
Acenaphthylene	<39		39	5.1	ug/Kg	☼	02/16/17 07:05	02/17/17 14:12	1
Anthracene	**27**	**J**	39	6.5	ug/Kg	☼	02/16/17 07:05	02/17/17 14:12	1
Benzo[a]anthracene	**86**		39	5.2	ug/Kg	☼	02/16/17 07:05	02/17/17 14:12	1
Benzo[a]pyrene	**67**		39	7.5	ug/Kg	☼	02/16/17 07:05	02/17/17 14:12	1
Benzo[b]fluoranthene	**110**		39	8.4	ug/Kg	☼	02/16/17 07:05	02/17/17 14:12	1
Benzo[g,h,i]perylene	**42**		39	13	ug/Kg	☼	02/16/17 07:05	02/17/17 14:12	1
Benzo[k]fluoranthene	**68**		39	11	ug/Kg	☼	02/16/17 07:05	02/17/17 14:12	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	☼	02/16/17 07:05	02/17/17 14:12	1
Bis(2-chloroethyl)ether	<200		200	58	ug/Kg	☼	02/16/17 07:05	02/17/17 14:12	1
Bis(2-ethylhexyl) phthalate	<200		200	71	ug/Kg	☼	02/16/17 07:05	02/17/17 14:12	1
Butyl benzyl phthalate	<200		200	74	ug/Kg	☼	02/16/17 07:05	02/17/17 14:12	1
Carbazole	<200	*	200	97	ug/Kg	☼	02/16/17 07:05	02/17/17 14:12	1
Chrysene	**85**		39	11	ug/Kg	☼	02/16/17 07:05	02/17/17 14:12	1
Dibenz(a,h)anthracene	<39		39	7.5	ug/Kg	☼	02/16/17 07:05	02/17/17 14:12	1
Dibenzofuran	<200		200	46	ug/Kg	☼	02/16/17 07:05	02/17/17 14:12	1
Diethyl phthalate	<200		200	66	ug/Kg	☼	02/16/17 07:05	02/17/17 14:12	1
Dimethyl phthalate	<200		200	51	ug/Kg	☼	02/16/17 07:05	02/17/17 14:12	1
Di-n-butyl phthalate	<200		200	59	ug/Kg	☼	02/16/17 07:05	02/17/17 14:12	1
Di-n-octyl phthalate	<200		200	63	ug/Kg	☼	02/16/17 07:05	02/17/17 14:12	1
Fluoranthene	**190**		39	7.2	ug/Kg	☼	02/16/17 07:05	02/17/17 14:12	1
Fluorene	**10**	**J**	39	5.5	ug/Kg	☼	02/16/17 07:05	02/17/17 14:12	1
Hexachlorobenzene	<78		78	9.0	ug/Kg	☼	02/16/17 07:05	02/17/17 14:12	1
Hexachlorobutadiene	<200		200	61	ug/Kg	☼	02/16/17 07:05	02/17/17 14:12	1
Hexachlorocyclopentadiene	<780		780	220	ug/Kg	☼	02/16/17 07:05	02/17/17 14:12	1
Hexachloroethane	<200		200	59	ug/Kg	☼	02/16/17 07:05	02/17/17 14:12	1

Client Sample ID: A38-25(0-1)-021017
Date Collected: 02/10/17 09:00
Date Received: 02/10/17 16:30

Lab Sample ID: 500-123758-3
Matrix: Solid
Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**34**	**J**	39	10	ug/Kg	☼	02/16/17 07:05	02/17/17 14:12	1
Isophorone	<200		200	44	ug/Kg	☼	02/16/17 07:05	02/17/17 14:12	1
Naphthalene	<39		39	6.0	ug/Kg	☼	02/16/17 07:05	02/17/17 14:12	1
Nitrobenzene	<39		39	9.7	ug/Kg	☼	02/16/17 07:05	02/17/17 14:12	1
N-Nitrosodi-n-propylamine	<78		78	47	ug/Kg	☼	02/16/17 07:05	02/17/17 14:12	1
N-Nitrosodiphenylamine	<200		200	46	ug/Kg	☼	02/16/17 07:05	02/17/17 14:12	1
Pentachlorophenol	<780		780	620	ug/Kg	☼	02/16/17 07:05	02/17/17 14:12	1
Phenanthrene	**150**		39	5.4	ug/Kg	☼	02/16/17 07:05	02/17/17 14:12	1
Phenol	<200		200	86	ug/Kg	☼	02/16/17 07:05	02/17/17 14:12	1
Pyrene	**190**		39	7.7	ug/Kg	☼	02/16/17 07:05	02/17/17 14:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*77*		*25 - 130*	*02/16/17 07:05*	*02/17/17 14:12*	*1*
2-Fluorobiphenyl	*109*		*42 - 115*	*02/16/17 07:05*	*02/17/17 14:12*	*1*
2-Fluorophenol	*97*		*40 - 130*	*02/16/17 07:05*	*02/17/17 14:12*	*1*
Nitrobenzene-d5	*88*		*33 - 124*	*02/16/17 07:05*	*02/17/17 14:12*	*1*
Phenol-d5	*90*		*36 - 123*	*02/16/17 07:05*	*02/17/17 14:12*	*1*
Terphenyl-d14	*106*		*25 - 150*	*02/16/17 07:05*	*02/17/17 14:12*	*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 16:55	1
Barium	**0.23**	**J**	0.50	0.050	mg/L		02/17/17 14:00	02/18/17 16:55	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/17/17 14:00	02/18/17 16:55	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/17/17 14:00	02/18/17 16:55	1
Chromium	<0.025		0.025	0.010	mg/L		02/17/17 14:00	02/18/17 16:55	1
Cobalt	<0.025		0.025	0.010	mg/L		02/17/17 14:00	02/18/17 16:55	1
Copper	<0.025		0.025	0.010	mg/L		02/17/17 14:00	02/18/17 16:55	1
Iron	<0.40		0.40	0.20	mg/L		02/17/17 14:00	02/18/17 16:55	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/17/17 14:00	02/18/17 16:55	1
Manganese	**1.2**		0.025	0.010	mg/L		02/17/17 14:00	02/18/17 16:55	1
Nickel	<0.025		0.025	0.010	mg/L		02/17/17 14:00	02/18/17 16:55	1
Selenium	<0.050		0.050	0.020	mg/L		02/17/17 14:00	02/18/17 16:55	1
Silver	<0.025		0.025	0.010	mg/L		02/17/17 14:00	02/18/17 16:55	1
Zinc	**0.028**	**J**	0.50	0.020	mg/L		02/17/17 14:00	02/18/17 16:55	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 15:43	1
Barium	**0.55**		0.50	0.050	mg/L		02/16/17 14:05	02/18/17 15:43	1
Beryllium	**0.0070**		0.0040	0.0040	mg/L		02/16/17 14:05	02/18/17 15:43	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/16/17 14:05	02/18/17 15:43	1
Chromium	**0.19**		0.025	0.010	mg/L		02/16/17 14:05	02/18/17 15:43	1
Cobalt	**0.045**		0.025	0.010	mg/L		02/16/17 14:05	02/18/17 15:43	1
Copper	**0.16**		0.025	0.010	mg/L		02/16/17 14:05	02/18/17 15:43	1
Iron	**160**		0.40	0.20	mg/L		02/16/17 14:05	02/18/17 15:43	1
Lead	**0.44**		0.0075	0.0075	mg/L		02/16/17 14:05	02/18/17 15:43	1
Manganese	**0.77**		0.025	0.010	mg/L		02/16/17 14:05	02/18/17 15:43	1
Nickel	**0.16**		0.025	0.010	mg/L		02/16/17 14:05	02/18/17 15:43	1
Selenium	<0.050		0.050	0.020	mg/L		02/16/17 14:05	02/18/17 15:43	1

Client Sample ID: A38-25(0-1)-021017
Date Collected: 02/10/17 09:00
Date Received: 02/10/17 16:30

Lab Sample ID: 500-123758-3
Matrix: Solid
Percent Solids: 83.9

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 15:43	1
Zinc	**0.61**		0.50	0.020	mg/L		02/16/17 14:05	02/18/17 15:43	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 20:54	1
Arsenic	**4.1**		0.50	0.23	mg/Kg	☼	02/17/17 08:35	02/17/17 20:54	1
Barium	**54**		0.50	0.091	mg/Kg	☼	02/17/17 08:35	02/17/17 20:54	1
Beryllium	**0.57**		0.20	0.043	mg/Kg	☼	02/17/17 08:35	02/17/17 20:54	1
Cadmium	**0.33**		0.10	0.029	mg/Kg	☼	02/17/17 08:35	02/17/17 20:54	1
Calcium	**23000**	**B**	10	3.2	mg/Kg	☼	02/17/17 08:35	02/17/17 20:54	1
Chromium	**15**		0.50	0.086	mg/Kg	☼	02/17/17 08:35	02/17/17 20:54	1
Cobalt	**8.3**		0.25	0.056	mg/Kg	☼	02/17/17 08:35	02/17/17 20:54	1
Copper	**22**		0.50	0.11	mg/Kg	☼	02/17/17 08:35	02/17/17 20:54	1
Iron	**14000**	**B**	10	3.8	mg/Kg	☼	02/17/17 08:35	02/17/17 20:54	1
Lead	**57**	**B**	0.25	0.12	mg/Kg	☼	02/17/17 08:35	02/17/17 20:54	1
Magnesium	**15000**	**B**	5.0	2.0	mg/Kg	☼	02/17/17 08:35	02/17/17 20:54	1
Manganese	**250**		0.50	0.099	mg/Kg	☼	02/17/17 08:35	02/17/17 20:54	1
Nickel	**22**		0.50	0.13	mg/Kg	☼	02/17/17 08:35	02/17/17 20:54	1
Potassium	**1200**		25	4.1	mg/Kg	☼	02/17/17 08:35	02/17/17 20:54	1
Selenium	**0.45**	**J**	0.50	0.25	mg/Kg	☼	02/17/17 08:35	02/17/17 20:54	1
Silver	<0.25		0.25	0.058	mg/Kg	☼	02/17/17 08:35	02/17/17 20:54	1
Sodium	**2200**		50	6.6	mg/Kg	☼	02/17/17 08:35	02/17/17 20:54	1
Thallium	<0.50		0.50	0.25	mg/Kg	☼	02/17/17 08:35	02/17/17 20:54	1
Vanadium	**16**		0.25	0.073	mg/Kg	☼	02/17/17 08:35	02/17/17 20:54	1
Zinc	**76**	**B**	1.0	0.32	mg/Kg	☼	02/17/17 08:35	02/17/17 20:54	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 12:08	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 11:28	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**36**		18	9.3	ug/Kg	☼	02/15/17 16:00	02/16/17 12:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.6**		0.2	0.2	SU			02/17/17 16:39	1

Client Sample ID: A38-26(0-1)-021017
Date Collected: 02/10/17 09:15
Date Received: 02/10/17 16:30

Lab Sample ID: 500-123758-4
Matrix: Solid
Percent Solids: 81.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<21		21	9.0	ug/Kg	☼	02/11/17 14:38	02/14/17 14:05	1
Benzene	<2.1		2.1	0.53	ug/Kg	☼	02/11/17 14:38	02/14/17 14:05	1
Bromodichloromethane	<2.1		2.1	0.42	ug/Kg	☼	02/11/17 14:38	02/14/17 14:05	1
Bromoform	<2.1		2.1	0.61	ug/Kg	☼	02/11/17 14:38	02/14/17 14:05	1
Bromomethane	<5.2		5.2	2.0	ug/Kg	☼	02/11/17 14:38	02/14/17 14:05	1
Carbon disulfide	<5.2		5.2	1.1	ug/Kg	☼	02/11/17 14:38	02/14/17 14:05	1
Carbon tetrachloride	<2.1		2.1	0.60	ug/Kg	☼	02/11/17 14:38	02/14/17 14:05	1
Chlorobenzene	<2.1		2.1	0.77	ug/Kg	☼	02/11/17 14:38	02/14/17 14:05	1
Chloroethane	<5.2		5.2	1.5	ug/Kg	☼	02/11/17 14:38	02/14/17 14:05	1
Chloroform	<2.1		2.1	0.72	ug/Kg	☼	02/11/17 14:38	02/14/17 14:05	1
Chloromethane	<5.2		5.2	2.1	ug/Kg	☼	02/11/17 14:38	02/14/17 14:05	1
cis-1,2-Dichloroethene	<2.1		2.1	0.58	ug/Kg	☼	02/11/17 14:38	02/14/17 14:05	1
cis-1,3-Dichloropropene	<2.1		2.1	0.63	ug/Kg	☼	02/11/17 14:38	02/14/17 14:05	1
Dibromochloromethane	<2.1		2.1	0.68	ug/Kg	☼	02/11/17 14:38	02/14/17 14:05	1
1,1-Dichloroethane	<2.1		2.1	0.71	ug/Kg	☼	02/11/17 14:38	02/14/17 14:05	1
1,2-Dichloroethane	<5.2		5.2	1.6	ug/Kg	☼	02/11/17 14:38	02/14/17 14:05	1
1,1-Dichloroethene	<2.1		2.1	0.71	ug/Kg	☼	02/11/17 14:38	02/14/17 14:05	1
1,2-Dichloropropane	<2.1		2.1	0.54	ug/Kg	☼	02/11/17 14:38	02/14/17 14:05	1
1,3-Dichloropropene, Total	<2.1		2.1	0.73	ug/Kg	☼	02/11/17 14:38	02/14/17 14:05	1
Ethylbenzene	<2.1		2.1	0.99	ug/Kg	☼	02/11/17 14:38	02/14/17 14:05	1
2-Hexanone	<5.2		5.2	1.6	ug/Kg	☼	02/11/17 14:38	02/14/17 14:05	1
Methylene Chloride	<5.2		5.2	2.0	ug/Kg	☼	02/11/17 14:38	02/14/17 14:05	1
Methyl Ethyl Ketone	<5.2		5.2	2.3	ug/Kg	☼	02/11/17 14:38	02/14/17 14:05	1
methyl isobutyl ketone	<5.2		5.2	1.5	ug/Kg	☼	02/11/17 14:38	02/14/17 14:05	1
Methyl tert-butyl ether	<2.1		2.1	0.61	ug/Kg	☼	02/11/17 14:38	02/14/17 14:05	1
Styrene	<2.1		2.1	0.63	ug/Kg	☼	02/11/17 14:38	02/14/17 14:05	1
1,1,2,2-Tetrachloroethane	<2.1		2.1	0.66	ug/Kg	☼	02/11/17 14:38	02/14/17 14:05	1
Tetrachloroethene	<2.1		2.1	0.71	ug/Kg	☼	02/11/17 14:38	02/14/17 14:05	1
Toluene	<2.1		2.1	0.52	ug/Kg	☼	02/11/17 14:38	02/14/17 14:05	1
trans-1,2-Dichloroethene	<2.1		2.1	0.92	ug/Kg	☼	02/11/17 14:38	02/14/17 14:05	1
trans-1,3-Dichloropropene	<2.1		2.1	0.73	ug/Kg	☼	02/11/17 14:38	02/14/17 14:05	1
1,1,1-Trichloroethane	<2.1		2.1	0.70	ug/Kg	☼	02/11/17 14:38	02/14/17 14:05	1
1,1,2-Trichloroethane	<2.1		2.1	0.89	ug/Kg	☼	02/11/17 14:38	02/14/17 14:05	1
Trichloroethene	<2.1		2.1	0.70	ug/Kg	☼	02/11/17 14:38	02/14/17 14:05	1
Vinyl chloride	<2.1		2.1	0.92	ug/Kg	☼	02/11/17 14:38	02/14/17 14:05	1
Xylenes, Total	<4.1		4.1	0.66	ug/Kg	☼	02/11/17 14:38	02/14/17 14:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 120*	*02/11/17 14:38*	*02/14/17 14:05*	*1*
Dibromofluoromethane	*95*		*75 - 120*	*02/11/17 14:38*	*02/14/17 14:05*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*69 - 134*	*02/11/17 14:38*	*02/14/17 14:05*	*1*
Toluene-d8 (Surr)	*109*		*75 - 123*	*02/11/17 14:38*	*02/14/17 14:05*	*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	☼	02/16/17 07:05	02/17/17 13:45	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	02/16/17 07:05	02/17/17 13:45	1
1,3-Dichlorobenzene	<190		190	44	ug/Kg	☼	02/16/17 07:05	02/17/17 13:45	1
1,4-Dichlorobenzene	<190		190	50	ug/Kg	☼	02/16/17 07:05	02/17/17 13:45	1
2,2'-oxybis[1-chloropropane]	<190		190	45	ug/Kg	☼	02/16/17 07:05	02/17/17 13:45	1

Client Sample ID: A38-26(0-1)-021017
Date Collected: 02/10/17 09:15
Date Received: 02/10/17 16:30

Lab Sample ID: 500-123758-4
Matrix: Solid
Percent Solids: 81.6

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	☼	02/16/17 07:05	02/17/17 13:45	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	02/16/17 07:05	02/17/17 13:45	1
2,4-Dichlorophenol	<380		380	92	ug/Kg	☼	02/16/17 07:05	02/17/17 13:45	1
2,4-Dimethylphenol	<380		380	150	ug/Kg	☼	02/16/17 07:05	02/17/17 13:45	1
2,4-Dinitrophenol	<780		780	680	ug/Kg	☼	02/16/17 07:05	02/17/17 13:45	1
2,4-Dinitrotoluene	<190		190	62	ug/Kg	☼	02/16/17 07:05	02/17/17 13:45	1
2,6-Dinitrotoluene	<190		190	76	ug/Kg	☼	02/16/17 07:05	02/17/17 13:45	1
2-Chloronaphthalene	<190		190	43	ug/Kg	☼	02/16/17 07:05	02/17/17 13:45	1
2-Chlorophenol	<190		190	66	ug/Kg	☼	02/16/17 07:05	02/17/17 13:45	1
2-Methylnaphthalene	<78		78	7.1	ug/Kg	☼	02/16/17 07:05	02/17/17 13:45	1
2-Methylphenol	<190		190	62	ug/Kg	☼	02/16/17 07:05	02/17/17 13:45	1
2-Nitroaniline	<190		190	52	ug/Kg	☼	02/16/17 07:05	02/17/17 13:45	1
2-Nitrophenol	<380		380	92	ug/Kg	☼	02/16/17 07:05	02/17/17 13:45	1
3 & 4 Methylphenol	<190		190	65	ug/Kg	☼	02/16/17 07:05	02/17/17 13:45	1
3,3'-Dichlorobenzidine	<190		190	54	ug/Kg	☼	02/16/17 07:05	02/17/17 13:45	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	02/16/17 07:05	02/17/17 13:45	1
4,6-Dinitro-2-methylphenol	<780		780	310	ug/Kg	☼	02/16/17 07:05	02/17/17 13:45	1
4-Bromophenyl phenyl ether	<190		190	51	ug/Kg	☼	02/16/17 07:05	02/17/17 13:45	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	02/16/17 07:05	02/17/17 13:45	1
4-Chloroaniline	<780		780	180	ug/Kg	☼	02/16/17 07:05	02/17/17 13:45	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	02/16/17 07:05	02/17/17 13:45	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	02/16/17 07:05	02/17/17 13:45	1
4-Nitrophenol	<780		780	370	ug/Kg	☼	02/16/17 07:05	02/17/17 13:45	1
Acenaphthene	<38		38	7.0	ug/Kg	☼	02/16/17 07:05	02/17/17 13:45	1
Acenaphthylene	<38		38	5.1	ug/Kg	☼	02/16/17 07:05	02/17/17 13:45	1
Anthracene	<38		38	6.5	ug/Kg	☼	02/16/17 07:05	02/17/17 13:45	1
Benzo[a]anthracene	**20**	**J**	38	5.2	ug/Kg	☼	02/16/17 07:05	02/17/17 13:45	1
Benzo[a]pyrene	<38		38	7.5	ug/Kg	☼	02/16/17 07:05	02/17/17 13:45	1
Benzo[b]fluoranthene	**25**	**J**	38	8.4	ug/Kg	☼	02/16/17 07:05	02/17/17 13:45	1
Benzo[g,h,i]perylene	**18**	**J**	38	12	ug/Kg	☼	02/16/17 07:05	02/17/17 13:45	1
Benzo[k]fluoranthene	**25**	**J**	38	11	ug/Kg	☼	02/16/17 07:05	02/17/17 13:45	1
Bis(2-chloroethoxy)methane	<190		190	40	ug/Kg	☼	02/16/17 07:05	02/17/17 13:45	1
Bis(2-chloroethyl)ether	<190		190	58	ug/Kg	☼	02/16/17 07:05	02/17/17 13:45	1
Bis(2-ethylhexyl) phthalate	<190		190	71	ug/Kg	☼	02/16/17 07:05	02/17/17 13:45	1
Butyl benzyl phthalate	<190		190	74	ug/Kg	☼	02/16/17 07:05	02/17/17 13:45	1
Carbazole	<190	*	190	97	ug/Kg	☼	02/16/17 07:05	02/17/17 13:45	1
Chrysene	**28**	**J**	38	11	ug/Kg	☼	02/16/17 07:05	02/17/17 13:45	1
Dibenz(a,h)anthracene	<38		38	7.5	ug/Kg	☼	02/16/17 07:05	02/17/17 13:45	1
Dibenzofuran	<190		190	45	ug/Kg	☼	02/16/17 07:05	02/17/17 13:45	1
Diethyl phthalate	<190		190	66	ug/Kg	☼	02/16/17 07:05	02/17/17 13:45	1
Dimethyl phthalate	<190		190	51	ug/Kg	☼	02/16/17 07:05	02/17/17 13:45	1
Di-n-butyl phthalate	<190		190	59	ug/Kg	☼	02/16/17 07:05	02/17/17 13:45	1
Di-n-octyl phthalate	<190		190	63	ug/Kg	☼	02/16/17 07:05	02/17/17 13:45	1
Fluoranthene	**42**		38	7.2	ug/Kg	☼	02/16/17 07:05	02/17/17 13:45	1
Fluorene	<38		38	5.4	ug/Kg	☼	02/16/17 07:05	02/17/17 13:45	1
Hexachlorobenzene	<78		78	9.0	ug/Kg	☼	02/16/17 07:05	02/17/17 13:45	1
Hexachlorobutadiene	<190		190	61	ug/Kg	☼	02/16/17 07:05	02/17/17 13:45	1
Hexachlorocyclopentadiene	<780		780	220	ug/Kg	☼	02/16/17 07:05	02/17/17 13:45	1
Hexachloroethane	<190		190	59	ug/Kg	☼	02/16/17 07:05	02/17/17 13:45	1

Client Sample ID: A38-26(0-1)-021017
Date Collected: 02/10/17 09:15
Date Received: 02/10/17 16:30

Lab Sample ID: 500-123758-4
Matrix: Solid
Percent Solids: 81.6

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	<38		38	10	ug/Kg	☼	02/16/17 07:05	02/17/17 13:45	1
Isophorone	<190		190	43	ug/Kg	☼	02/16/17 07:05	02/17/17 13:45	1
Naphthalene	<38		38	6.0	ug/Kg	☼	02/16/17 07:05	02/17/17 13:45	1
Nitrobenzene	<38		38	9.7	ug/Kg	☼	02/16/17 07:05	02/17/17 13:45	1
N-Nitrosodi-n-propylamine	<78		78	47	ug/Kg	☼	02/16/17 07:05	02/17/17 13:45	1
N-Nitrosodiphenylamine	<190		190	46	ug/Kg	☼	02/16/17 07:05	02/17/17 13:45	1
Pentachlorophenol	<780		780	620	ug/Kg	☼	02/16/17 07:05	02/17/17 13:45	1
Phenanthrene	**20**	**J**	38	5.4	ug/Kg	☼	02/16/17 07:05	02/17/17 13:45	1
Phenol	<190		190	86	ug/Kg	☼	02/16/17 07:05	02/17/17 13:45	1
Pyrene	**44**		38	7.7	ug/Kg	☼	02/16/17 07:05	02/17/17 13:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*73*		*25 - 130*	*02/16/17 07:05*	*02/17/17 13:45*	*1*
2-Fluorobiphenyl	*98*		*42 - 115*	*02/16/17 07:05*	*02/17/17 13:45*	*1*
2-Fluorophenol	*94*		*40 - 130*	*02/16/17 07:05*	*02/17/17 13:45*	*1*
Nitrobenzene-d5	*82*		*33 - 124*	*02/16/17 07:05*	*02/17/17 13:45*	*1*
Phenol-d5	*89*		*36 - 123*	*02/16/17 07:05*	*02/17/17 13:45*	*1*
Terphenyl-d14	*102*		*25 - 150*	*02/16/17 07:05*	*02/17/17 13:45*	*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 17:02	1
Barium	**0.45**	**J**	0.50	0.050	mg/L		02/17/17 14:00	02/18/17 17:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/17/17 14:00	02/18/17 17:02	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/17/17 14:00	02/18/17 17:02	1
Chromium	<0.025		0.025	0.010	mg/L		02/17/17 14:00	02/18/17 17:02	1
Cobalt	<0.025		0.025	0.010	mg/L		02/17/17 14:00	02/18/17 17:02	1
Copper	<0.025		0.025	0.010	mg/L		02/17/17 14:00	02/18/17 17:02	1
Iron	<0.40		0.40	0.20	mg/L		02/17/17 14:00	02/18/17 17:02	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/17/17 14:00	02/18/17 17:02	1
Manganese	**0.041**		0.025	0.010	mg/L		02/17/17 14:00	02/18/17 17:02	1
Nickel	<0.025		0.025	0.010	mg/L		02/17/17 14:00	02/18/17 17:02	1
Selenium	<0.050		0.050	0.020	mg/L		02/17/17 14:00	02/18/17 17:02	1
Silver	<0.025		0.025	0.010	mg/L		02/17/17 14:00	02/18/17 17:02	1
Zinc	**0.035**	**J**	0.50	0.020	mg/L		02/17/17 14:00	02/18/17 17:02	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		02/16/17 14:05	02/18/17 15:47	1
Barium	**0.64**		0.50	0.050	mg/L		02/16/17 14:05	02/18/17 15:47	1
Beryllium	**0.0070**		0.0040	0.0040	mg/L		02/16/17 14:05	02/18/17 15:47	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/16/17 14:05	02/18/17 15:47	1
Chromium	**0.16**		0.025	0.010	mg/L		02/16/17 14:05	02/18/17 15:47	1
Cobalt	**0.057**		0.025	0.010	mg/L		02/16/17 14:05	02/18/17 15:47	1
Copper	**0.23**		0.025	0.010	mg/L		02/16/17 14:05	02/18/17 15:47	1
Iron	**200**		0.40	0.20	mg/L		02/16/17 14:05	02/18/17 15:47	1
Lead	**0.10**		0.0075	0.0075	mg/L		02/16/17 14:05	02/18/17 15:47	1
Manganese	**1.0**		0.025	0.010	mg/L		02/16/17 14:05	02/18/17 15:47	1
Nickel	**0.22**		0.025	0.010	mg/L		02/16/17 14:05	02/18/17 15:47	1
Selenium	<0.050		0.050	0.020	mg/L		02/16/17 14:05	02/18/17 15:47	1

Client Sample ID: A38-26(0-1)-021017
Date Collected: 02/10/17 09:15
Date Received: 02/10/17 16:30

Lab Sample ID: 500-123758-4
Matrix: Solid
Percent Solids: 81.6

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 15:47	1
Zinc	**0.68**		0.50	0.020	mg/L		02/16/17 14:05	02/18/17 15:47	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 20:59	1
Arsenic	**9.1**		0.57	0.26	mg/Kg	☼	02/17/17 08:35	02/17/17 20:59	1
Barium	**67**		0.57	0.10	mg/Kg	☼	02/17/17 08:35	02/17/17 20:59	1
Beryllium	**0.69**		0.23	0.049	mg/Kg	☼	02/17/17 08:35	02/17/17 20:59	1
Cadmium	**0.22**		0.11	0.033	mg/Kg	☼	02/17/17 08:35	02/17/17 20:59	1
Calcium	**23000**	**B**	11	3.6	mg/Kg	☼	02/17/17 08:35	02/17/17 20:59	1
Chromium	**16**		0.57	0.097	mg/Kg	☼	02/17/17 08:35	02/17/17 20:59	1
Cobalt	**12**		0.28	0.064	mg/Kg	☼	02/17/17 08:35	02/17/17 20:59	1
Copper	**24**		0.57	0.12	mg/Kg	☼	02/17/17 08:35	02/17/17 20:59	1
Iron	**21000**	**B**	11	4.4	mg/Kg	☼	02/17/17 08:35	02/17/17 20:59	1
Lead	**27**	**B**	0.28	0.14	mg/Kg	☼	02/17/17 08:35	02/17/17 20:59	1
Magnesium	**14000**	**B**	5.7	2.3	mg/Kg	☼	02/17/17 08:35	02/17/17 20:59	1
Manganese	**420**		0.57	0.11	mg/Kg	☼	02/17/17 08:35	02/17/17 20:59	1
Nickel	**30**		0.57	0.15	mg/Kg	☼	02/17/17 08:35	02/17/17 20:59	1
Potassium	**1500**		28	4.6	mg/Kg	☼	02/17/17 08:35	02/17/17 20:59	1
Selenium	**0.83**		0.57	0.28	mg/Kg	☼	02/17/17 08:35	02/17/17 20:59	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	02/17/17 08:35	02/17/17 20:59	1
Sodium	**730**		57	7.5	mg/Kg	☼	02/17/17 08:35	02/17/17 20:59	1
Thallium	**0.36**	**J**	0.57	0.28	mg/Kg	☼	02/17/17 08:35	02/17/17 20:59	1
Vanadium	**22**		0.28	0.083	mg/Kg	☼	02/17/17 08:35	02/17/17 20:59	1
Zinc	**94**	**B**	1.1	0.36	mg/Kg	☼	02/17/17 08:35	02/17/17 20:59	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 12:09	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 11:33	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**48**		19	9.8	ug/Kg	☼	02/15/17 16:00	02/16/17 12:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.5**		0.2	0.2	SU			02/17/17 16:41	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 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)

2/21/2017

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 20?
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, 0.7, 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 ☒ 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
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 (1208)

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):
31560 S. Dixie Highway, (ISGS Site No. 3140-40)

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: 41.317106990 (Decimal Degrees) Longitude: -87.621323265 (-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: 41.317106990 Longitude: -87.621323265

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 F40-1 AND F40-2 WERE SAMPLED ADJACENT TO ISGS SITE No. 3140-40. SEE FIGURE 3-3 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: 500-123628-1 AND 500-123629-1.
ALSO SEE FIGURE 4-3 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. 3140-40
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	F40-1(0-1)-020817	F40-2(0-1)-020817	**Soil Reference Concentrations[A]**
Sample Date	2/8/2017	2/8/2017	
Location ID	F40-1	F40-2	
Depth	0 - 1	0 - 1	
ISGS Site No.	3140-40	3140-40	
Parameter			
Laboratory pH (s.u.)	8.8	8.7	<6.25, >9.0
VOCs	None Detected		
SVOCs (ug/kg)			
Acenaphthene	ND	9.5 J	570000
Acenaphthylene	ND	9.9 J	---
Anthracene	ND	38	1.2E+07
Benzo(a)anthracene	6.9 J	150 J	900 / 1100 / 1800
Benzo(a)pyrene	31 J	200 J	90 / 1300 / 2100
Benzo(b)fluoranthene	35 J	350 J	900 / 1500 /2100
Benzo(g,h,i)perylene	26 J	210 J	---
Benzo(k)fluoranthene	ND	150 J	9000
bis(2-Ethylhexyl)phthalate	ND	110 J	46000
Chrysene	ND	180 J	88000
Dibenzo(a,h)anthracene	29 J	ND	90 / 200 / 420
Fluoranthene	13 J	260 F1	3100000
Fluorene	ND	11 J	560000
Indeno(1,2,3-cd)pyrene	29 J	610 J	900 / 900 / 1600
Naphthalene, SVOC	ND	7.9 J	1800
Phenanthrene	ND	150	
Pyrene	10 J	460 J+	2300000
Total Metals (mg/kg)			
Antimony, Total	ND	0.53 J	5
Arsenic, Total	4.4	1.8 J	11.3 / 13.0
Barium, Total	63	30 J	1500
Beryllium, Total	0.51	0.24	22
Cadmium, Total	ND	0.3	5.2
Calcium, Total	19000 B	180000 J	---
Chromium, Total	15 B	8.7 J	21
Cobalt, Total	6.5	3.5 J	20
Copper, Total	17	33 J	2900
Iron, Total	15000 B	6100 J	15000 / 15900
Lead, Total	78 B	66 J	107
Magnesium, Total	13000 B	110000 J	325000
Manganese, Total	160	220	630 / 636
Mercury, Total	0.019	0.016 J	0.89
Nickel, Total	18	9.4 J	100
Potassium, Total	1300	600 J	---
Selenium, Total	ND	ND	1.3
Silver, Total	ND	ND	4.4
Sodium, Total	3400	930 J	---
Thallium, Total	ND	ND	2.6
Vanadium, Total	21	7 J	550
Zinc, Total	65	110 J	5100
TCLP Metals (mg/l)			
Arsenic, TCLP	ND	ND	0.05
Barium, TCLP	0.48 J	0.26 J	2
Cadmium, TCLP	ND	0.0026 J	0.005
Chromium, TCLP	ND	ND	0.1
Cobalt, TCLP	0.014 J	ND	1
Copper, TCLP	ND	0.011 J	0.65
Iron, TCLP	ND	ND	5
Lead, TCLP	0.015	0.013	0.0075
Manganese, TCLP	3.4	0.57	0.15
Nickel, TCLP	ND	ND	0.1
Selenium, TCLP	ND	ND	0.05
Zinc, TCLP	ND	0.29 J	5

Summary Table of ISGS Site No. 3140-40
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	F40-1(0-1)-020817	F40-2(0-1)-020817	**Soil Reference Concentrations[A]**
Sample Date	2/8/2017	2/8/2017	
Location ID	F40-1	F40-2	
Depth	0 - 1	0 - 1	
ISGS Site No.	3140-40	3140-40	
Parameter			
SPLP Metals (mg/l)			
Arsenic, SPLP	0.083	0.02 J	0.05
Barium, SPLP	0.92	0.59	2
Beryllium, SPLP	0.0096	0.0059	0.004
Cadmium, SPLP	ND	ND	0.005
Chromium, SPLP	0.22	0.17	0.1
Cobalt, SPLP	0.089	0.04	1
Copper, SPLP	0.25	0.16	0.65
Iron, SPLP	240 J-	120	5
Lead, SPLP	0.36 J-	0.54	0.0075
Manganese, SPLP	2.6 J-	0.7	0.15
Mercury, SPLP	ND	ND	0.002
Nickel, SPLP	0.25	0.13	0.1
Zinc, SPLP	0.67	0.72	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: 500-123628-1
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 5:14:36 PM

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

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

TestAmerica Job ID: 500-123628-1

Client Sample ID: F40-1(0-1)-020817
Date Collected: 02/08/17 14:10
Date Received: 02/08/17 17:00

Lab Sample ID: 500-123628-20
Matrix: Solid
Percent Solids: 86.9

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	☼	02/09/17 08:50	02/13/17 15:06	1
Benzene	<1.6		1.6	0.40	ug/Kg	☼	02/09/17 08:50	02/13/17 15:06	1
Bromodichloromethane	<1.6		1.6	0.32	ug/Kg	☼	02/09/17 08:50	02/13/17 15:06	1
Bromoform	<1.6		1.6	0.46	ug/Kg	☼	02/09/17 08:50	02/13/17 15:06	1
Bromomethane	<4.0		4.0	1.5	ug/Kg	☼	02/09/17 08:50	02/13/17 15:06	1
Carbon disulfide	<4.0		4.0	0.82	ug/Kg	☼	02/09/17 08:50	02/13/17 15:06	1
Carbon tetrachloride	<1.6		1.6	0.46	ug/Kg	☼	02/09/17 08:50	02/13/17 15:06	1
Chlorobenzene	<1.6		1.6	0.58	ug/Kg	☼	02/09/17 08:50	02/13/17 15:06	1
Chloroethane	<4.0	*	4.0	1.2	ug/Kg	☼	02/09/17 08:50	02/13/17 15:06	1
Chloroform	<1.6		1.6	0.55	ug/Kg	☼	02/09/17 08:50	02/13/17 15:06	1
Chloromethane	<4.0		4.0	1.6	ug/Kg	☼	02/09/17 08:50	02/13/17 15:06	1
cis-1,2-Dichloroethene	<1.6		1.6	0.44	ug/Kg	☼	02/09/17 08:50	02/13/17 15:06	1
cis-1,3-Dichloropropene	<1.6		1.6	0.48	ug/Kg	☼	02/09/17 08:50	02/13/17 15:06	1
Dibromochloromethane	<1.6		1.6	0.52	ug/Kg	☼	02/09/17 08:50	02/13/17 15:06	1
1,1-Dichloroethane	<1.6		1.6	0.54	ug/Kg	☼	02/09/17 08:50	02/13/17 15:06	1
1,2-Dichloroethane	<4.0		4.0	1.2	ug/Kg	☼	02/09/17 08:50	02/13/17 15:06	1
1,1-Dichloroethene	<1.6		1.6	0.54	ug/Kg	☼	02/09/17 08:50	02/13/17 15:06	1
1,2-Dichloropropane	<1.6		1.6	0.41	ug/Kg	☼	02/09/17 08:50	02/13/17 15:06	1
1,3-Dichloropropene, Total	<1.6		1.6	0.56	ug/Kg	☼	02/09/17 08:50	02/13/17 15:06	1
Ethylbenzene	<1.6		1.6	0.76	ug/Kg	☼	02/09/17 08:50	02/13/17 15:06	1
2-Hexanone	<4.0		4.0	1.2	ug/Kg	☼	02/09/17 08:50	02/13/17 15:06	1
Methylene Chloride	<4.0		4.0	1.6	ug/Kg	☼	02/09/17 08:50	02/13/17 15:06	1
Methyl Ethyl Ketone	<4.0		4.0	1.8	ug/Kg	☼	02/09/17 08:50	02/13/17 15:06	1
methyl isobutyl ketone	<4.0		4.0	1.2	ug/Kg	☼	02/09/17 08:50	02/13/17 15:06	1
Methyl tert-butyl ether	<1.6		1.6	0.46	ug/Kg	☼	02/09/17 08:50	02/13/17 15:06	1
Styrene	<1.6		1.6	0.48	ug/Kg	☼	02/09/17 08:50	02/13/17 15:06	1
1,1,2,2-Tetrachloroethane	<1.6		1.6	0.51	ug/Kg	☼	02/09/17 08:50	02/13/17 15:06	1
Tetrachloroethene	<1.6		1.6	0.54	ug/Kg	☼	02/09/17 08:50	02/13/17 15:06	1
Toluene	<1.6		1.6	0.40	ug/Kg	☼	02/09/17 08:50	02/13/17 15:06	1
trans-1,2-Dichloroethene	<1.6		1.6	0.70	ug/Kg	☼	02/09/17 08:50	02/13/17 15:06	1
trans-1,3-Dichloropropene	<1.6		1.6	0.56	ug/Kg	☼	02/09/17 08:50	02/13/17 15:06	1
1,1,1-Trichloroethane	<1.6		1.6	0.53	ug/Kg	☼	02/09/17 08:50	02/13/17 15:06	1
1,1,2-Trichloroethane	<1.6		1.6	0.68	ug/Kg	☼	02/09/17 08:50	02/13/17 15:06	1
Trichloroethene	<1.6		1.6	0.54	ug/Kg	☼	02/09/17 08:50	02/13/17 15:06	1
Vinyl chloride	<1.6		1.6	0.70	ug/Kg	☼	02/09/17 08:50	02/13/17 15:06	1
Xylenes, Total	<3.2		3.2	0.51	ug/Kg	☼	02/09/17 08:50	02/13/17 15:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 120*	*02/09/17 08:50*	*02/13/17 15:06*	*1*
Dibromofluoromethane	*96*		*75 - 120*	*02/09/17 08:50*	*02/13/17 15:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*69 - 134*	*02/09/17 08:50*	*02/13/17 15:06*	*1*
Toluene-d8 (Surr)	*109*		*75 - 123*	*02/09/17 08:50*	*02/13/17 15:06*	*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	☼	02/10/17 17:49	02/14/17 10:58	1
1,2-Dichlorobenzene	<180		180	44	ug/Kg	☼	02/10/17 17:49	02/14/17 10:58	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	02/10/17 17:49	02/14/17 10:58	1
1,4-Dichlorobenzene	<180		180	47	ug/Kg	☼	02/10/17 17:49	02/14/17 10:58	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	02/10/17 17:49	02/14/17 10:58	1

Client Sample ID: F40-1(0-1)-020817
Date Collected: 02/08/17 14:10
Date Received: 02/08/17 17:00

Lab Sample ID: 500-123628-20
Matrix: Solid
Percent Solids: 86.9

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	☼	02/10/17 17:49	02/14/17 10:58	1
2,4,6-Trichlorophenol	<360		360	130	ug/Kg	☼	02/10/17 17:49	02/14/17 10:58	1
2,4-Dichlorophenol	<360		360	87	ug/Kg	☼	02/10/17 17:49	02/14/17 10:58	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	02/10/17 17:49	02/14/17 10:58	1
2,4-Dinitrophenol	<740		740	640	ug/Kg	☼	02/10/17 17:49	02/14/17 10:58	1
2,4-Dinitrotoluene	<180		180	58	ug/Kg	☼	02/10/17 17:49	02/14/17 10:58	1
2,6-Dinitrotoluene	<180		180	72	ug/Kg	☼	02/10/17 17:49	02/14/17 10:58	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	02/10/17 17:49	02/14/17 10:58	1
2-Chlorophenol	<180		180	62	ug/Kg	☼	02/10/17 17:49	02/14/17 10:58	1
2-Methylnaphthalene	<74		74	6.7	ug/Kg	☼	02/10/17 17:49	02/14/17 10:58	1
2-Methylphenol	<180		180	59	ug/Kg	☼	02/10/17 17:49	02/14/17 10:58	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	02/10/17 17:49	02/14/17 10:58	1
2-Nitrophenol	<360		360	86	ug/Kg	☼	02/10/17 17:49	02/14/17 10:58	1
3 & 4 Methylphenol	<180		180	61	ug/Kg	☼	02/10/17 17:49	02/14/17 10:58	1
3,3'-Dichlorobenzidine	<180		180	51	ug/Kg	☼	02/10/17 17:49	02/14/17 10:58	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	02/10/17 17:49	02/14/17 10:58	1
4,6-Dinitro-2-methylphenol	<740		740	290	ug/Kg	☼	02/10/17 17:49	02/14/17 10:58	1
4-Bromophenyl phenyl ether	<180		180	48	ug/Kg	☼	02/10/17 17:49	02/14/17 10:58	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	02/10/17 17:49	02/14/17 10:58	1
4-Chloroaniline	<740		740	170	ug/Kg	☼	02/10/17 17:49	02/14/17 10:58	1
4-Chlorophenyl phenyl ether	<180		180	43	ug/Kg	☼	02/10/17 17:49	02/14/17 10:58	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	02/10/17 17:49	02/14/17 10:58	1
4-Nitrophenol	<740		740	350	ug/Kg	☼	02/10/17 17:49	02/14/17 10:58	1
Acenaphthene	<36		36	6.6	ug/Kg	☼	02/10/17 17:49	02/14/17 10:58	1
Acenaphthylene	<36		36	4.8	ug/Kg	☼	02/10/17 17:49	02/14/17 10:58	1
Anthracene	<36		36	6.1	ug/Kg	☼	02/10/17 17:49	02/14/17 10:58	1
Benzo[a]anthracene	**6.9**	**J**	36	4.9	ug/Kg	☼	02/10/17 17:49	02/14/17 10:58	1
Benzo[a]pyrene	**31**	**J**	36	7.1	ug/Kg	☼	02/10/17 17:49	02/14/17 10:58	1
Benzo[b]fluoranthene	**35**	**J**	36	7.9	ug/Kg	☼	02/10/17 17:49	02/14/17 10:58	1
Benzo[g,h,i]perylene	**26**	**J**	36	12	ug/Kg	☼	02/10/17 17:49	02/14/17 10:58	1
Benzo[k]fluoranthene	<36		36	11	ug/Kg	☼	02/10/17 17:49	02/14/17 10:58	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	02/10/17 17:49	02/14/17 10:58	1
Bis(2-chloroethyl)ether	<180		180	55	ug/Kg	☼	02/10/17 17:49	02/14/17 10:58	1
Bis(2-ethylhexyl) phthalate	<180		180	67	ug/Kg	☼	02/10/17 17:49	02/14/17 10:58	1
Butyl benzyl phthalate	<180		180	69	ug/Kg	☼	02/10/17 17:49	02/14/17 10:58	1
Carbazole	<180		180	91	ug/Kg	☼	02/10/17 17:49	02/14/17 10:58	1
Chrysene	<36		36	9.9	ug/Kg	☼	02/10/17 17:49	02/14/17 10:58	1
Dibenz(a,h)anthracene	**29**	**J**	36	7.1	ug/Kg	☼	02/10/17 17:49	02/14/17 10:58	1
Dibenzofuran	<180		180	43	ug/Kg	☼	02/10/17 17:49	02/14/17 10:58	1
Diethyl phthalate	<180		180	62	ug/Kg	☼	02/10/17 17:49	02/14/17 10:58	1
Dimethyl phthalate	<180		180	48	ug/Kg	☼	02/10/17 17:49	02/14/17 10:58	1
Di-n-butyl phthalate	<180		180	56	ug/Kg	☼	02/10/17 17:49	02/14/17 10:58	1
Di-n-octyl phthalate	<180		180	60	ug/Kg	☼	02/10/17 17:49	02/14/17 10:58	1
Fluoranthene	**13**	**J**	36	6.8	ug/Kg	☼	02/10/17 17:49	02/14/17 10:58	1
Fluorene	<36		36	5.1	ug/Kg	☼	02/10/17 17:49	02/14/17 10:58	1
Hexachlorobenzene	<74		74	8.5	ug/Kg	☼	02/10/17 17:49	02/14/17 10:58	1
Hexachlorobutadiene	<180		180	57	ug/Kg	☼	02/10/17 17:49	02/14/17 10:58	1
Hexachlorocyclopentadiene	<740		740	210	ug/Kg	☼	02/10/17 17:49	02/14/17 10:58	1
Hexachloroethane	<180		180	55	ug/Kg	☼	02/10/17 17:49	02/14/17 10:58	1

Client Sample ID: F40-1(0-1)-020817
Date Collected: 02/08/17 14:10
Date Received: 02/08/17 17:00

Lab Sample ID: 500-123628-20
Matrix: Solid
Percent Solids: 86.9

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	**29**	**J**	36	9.5	ug/Kg	☼	02/10/17 17:49	02/14/17 10:58	1
Isophorone	<180		180	41	ug/Kg	☼	02/10/17 17:49	02/14/17 10:58	1
Naphthalene	<36		36	5.6	ug/Kg	☼	02/10/17 17:49	02/14/17 10:58	1
Nitrobenzene	<36		36	9.1	ug/Kg	☼	02/10/17 17:49	02/14/17 10:58	1
N-Nitrosodi-n-propylamine	<74		74	45	ug/Kg	☼	02/10/17 17:49	02/14/17 10:58	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	02/10/17 17:49	02/14/17 10:58	1
Pentachlorophenol	<740		740	590	ug/Kg	☼	02/10/17 17:49	02/14/17 10:58	1
Phenanthrene	<36		36	5.1	ug/Kg	☼	02/10/17 17:49	02/14/17 10:58	1
Phenol	<180		180	81	ug/Kg	☼	02/10/17 17:49	02/14/17 10:58	1
Pyrene	**10**	**J**	36	7.2	ug/Kg	☼	02/10/17 17:49	02/14/17 10:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*88*		*25 - 130*	*02/10/17 17:49*	*02/14/17 10:58*	*1*
2-Fluorobiphenyl	*66*		*42 - 115*	*02/10/17 17:49*	*02/14/17 10:58*	*1*
2-Fluorophenol	*74*		*40 - 130*	*02/10/17 17:49*	*02/14/17 10:58*	*1*
Nitrobenzene-d5	*60*		*33 - 124*	*02/10/17 17:49*	*02/14/17 10:58*	*1*
Phenol-d5	*77*		*36 - 123*	*02/10/17 17:49*	*02/14/17 10:58*	*1*
Terphenyl-d14	*85*		*25 - 150*	*02/10/17 17:49*	*02/14/17 10:58*	*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		02/13/17 08:19	02/13/17 20:57	1
Barium	**0.48**	**J**	0.50	0.050	mg/L		02/13/17 08:19	02/13/17 20:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/13/17 08:19	02/13/17 20:57	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/13/17 08:19	02/13/17 20:57	1
Chromium	<0.025		0.025	0.010	mg/L		02/13/17 08:19	02/13/17 20:57	1
Cobalt	**0.014**	**J**	0.025	0.010	mg/L		02/13/17 08:19	02/13/17 20:57	1
Copper	**0.012**	**J B**	0.040	0.010	mg/L		02/13/17 08:19	02/13/17 20:57	1
Iron	<0.40		0.40	0.20	mg/L		02/13/17 08:19	02/13/17 20:57	1
Lead	**0.015**		0.0075	0.0075	mg/L		02/13/17 08:19	02/13/17 20:57	1
Manganese	**3.4**		0.025	0.010	mg/L		02/13/17 08:19	02/13/17 20:57	1
Nickel	<0.025		0.025	0.010	mg/L		02/13/17 08:19	02/13/17 20:57	1
Selenium	<0.050		0.050	0.020	mg/L		02/13/17 08:19	02/13/17 20:57	1
Silver	<0.025		0.025	0.010	mg/L		02/13/17 08:19	02/13/17 20:57	1
Zinc	**0.071**	**J B**	0.50	0.020	mg/L		02/13/17 08:19	02/13/17 20:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.083**		0.050	0.010	mg/L		02/13/17 08:20	02/13/17 17:37	1
Barium	**0.92**		0.50	0.050	mg/L		02/13/17 08:20	02/13/17 17:37	1
Beryllium	**0.0096**		0.0040	0.0040	mg/L		02/13/17 08:20	02/13/17 17:37	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/13/17 08:20	02/13/17 17:37	1
Chromium	**0.22**		0.025	0.010	mg/L		02/13/17 08:20	02/13/17 17:37	1
Cobalt	**0.089**		0.025	0.010	mg/L		02/13/17 08:20	02/13/17 17:37	1
Copper	**0.25**		0.025	0.010	mg/L		02/13/17 08:20	02/13/17 17:37	1
Iron	**240**		0.40	0.20	mg/L		02/13/17 08:20	02/13/17 17:37	1
Lead	**0.36**	**F1**	0.0075	0.0075	mg/L		02/13/17 08:20	02/13/17 17:37	1
Manganese	**2.6**		0.025	0.010	mg/L		02/13/17 08:20	02/13/17 17:37	1
Nickel	**0.25**		0.025	0.010	mg/L		02/13/17 08:20	02/13/17 17:37	1
Selenium	<0.050		0.050	0.020	mg/L		02/13/17 08:20	02/13/17 17:37	1

Client Sample ID: F40-1(0-1)-020817
Date Collected: 02/08/17 14:10
Date Received: 02/08/17 17:00

Lab Sample ID: 500-123628-20
Matrix: Solid
Percent Solids: 86.9

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		02/13/17 08:20	02/13/17 17:37	1
Zinc	**0.67**		0.50	0.020	mg/L		02/13/17 08:20	02/13/17 17:37	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	☼	02/10/17 08:30	02/12/17 04:45	1
Arsenic	**4.4**		0.50	0.23	mg/Kg	☼	02/10/17 08:30	02/12/17 04:45	1
Barium	**63**		0.50	0.092	mg/Kg	☼	02/10/17 08:30	02/12/17 04:45	1
Beryllium	**0.51**		0.20	0.043	mg/Kg	☼	02/10/17 08:30	02/12/17 04:45	1
Cadmium	**0.18**	**B**	0.10	0.029	mg/Kg	☼	02/10/17 08:30	02/12/17 04:45	1
Calcium	**19000**	**B**	10	3.2	mg/Kg	☼	02/10/17 08:30	02/12/17 04:45	1
Chromium	**15**	**B**	0.50	0.086	mg/Kg	☼	02/10/17 08:30	02/12/17 04:45	1
Cobalt	**6.5**		0.25	0.057	mg/Kg	☼	02/10/17 08:30	02/12/17 04:45	1
Copper	**17**		0.50	0.11	mg/Kg	☼	02/10/17 08:30	02/12/17 04:45	1
Iron	**15000**	**B**	10	3.9	mg/Kg	☼	02/10/17 08:30	02/12/17 04:45	1
Lead	**78**	**B**	0.25	0.12	mg/Kg	☼	02/10/17 08:30	02/12/17 04:45	1
Magnesium	**13000**	**B**	5.0	2.0	mg/Kg	☼	02/10/17 08:30	02/12/17 04:45	1
Manganese	**160**		0.50	0.099	mg/Kg	☼	02/10/17 08:30	02/12/17 04:45	1
Nickel	**18**		0.50	0.14	mg/Kg	☼	02/10/17 08:30	02/12/17 04:45	1
Potassium	**1300**		25	4.1	mg/Kg	☼	02/10/17 08:30	02/12/17 04:45	1
Selenium	**0.25**	**J B**	0.50	0.25	mg/Kg	☼	02/10/17 08:30	02/12/17 04:45	1
Silver	<0.25		0.25	0.059	mg/Kg	☼	02/10/17 08:30	02/12/17 04:45	1
Sodium	**3400**		50	6.6	mg/Kg	☼	02/10/17 08:30	02/12/17 04:45	1
Thallium	<0.50		0.50	0.25	mg/Kg	☼	02/10/17 08:30	02/12/17 04:45	1
Vanadium	**21**		0.25	0.073	mg/Kg	☼	02/10/17 08:30	02/12/17 04:45	1
Zinc	**65**		1.0	0.32	mg/Kg	☼	02/10/17 08:30	02/12/17 04:45	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		02/13/17 11:45	02/14/17 12:46	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 11:45	02/14/17 10:22	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**19**		17	8.8	ug/Kg	☼	02/09/17 16:15	02/10/17 11:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.8**		0.2	0.2	SU			02/13/17 12:13	1

Definitions/Glossary

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

TestAmerica Job ID: 500-123628-1

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
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
X	Surrogate is outside control limits
F1	MS and/or MSD Recovery is outside acceptance limits.
E	Result exceeded calibration range.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. 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: 500-123628-1

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 60
Phone: 708.534.5200 Fax: 708.534

500-123628 COC

Chain of Custody Record

Lab Job #: 500-123628

Chain of Custody Number:

Page 1 of 2

Temperature °C/Cooler: 4.3, 3.4, 2.7, 2.9, 4.0, 3.6

Report To (optional)		Bill To (optional)	
Contact:	S. Balasubramaniam	Contact:	
Company:	Weston Solutions	Company:	
Address:	350 Plaza Dr, Ste 202	Address:	
Address:	Mundelein, IL 60060	Address:	
Phone:	224-864-7250	Phone:	
Fax:		Fax:	
E-Mail:		PO#/Reference#	

Client	Weston Solutions	Client Project #	
Project Name	IDOT 053		
Project Location/State	Beecher / IL	Lab Project #	
Sampler	AT	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		AUU-14(0-1)-020817	2/8/17	0855	6	S		X	X	X	X	X	
2		AUU-14(0-1)-020817D		0855	6	S							
3		AUU-15(0-1)-020817		0920	6	S							
4		AUU-16(0-1)-020817		0930	6	S							
5		AUU-17(0-1)-020817		0945	6	S							
6		AUU-18(0-1)-020817		1000	6	S							
7		AUU-19(0-1)-020817		1020	6	S							
8		AUU-20(0-1)-020817		1040	6	S							
9		AUU-21(0-1)-020817		1053	6	S							
10		AUU-22(0-1)-020817	2/8/17	1115	6	S		X	X	X	X	X	

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days X 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
1		Weston	2/8/17	1700		TA	2/8/17	1700
2	Relinquished By	Company	Date	Time	Received By	Company	Date	Time
3	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. Balasubramanian
Company: Weston Solutions
Address: 300 Plaza Cir, Ste 202
Address: Mundelein, IL 60060
Phone: 224-836-7250
Fax:
E-Mail:

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

Chain of Custody Record

Lab Job #: 500-123628
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. T.
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
11		A38-13(0-1)-020817	2/8/17	1100	6	S	X	X	X	X	X					
12		A38-13(0-1)-020817D		1150	6	S										
13		A38-14(0-1)-020817		1205	6	S										
14		A38-15(0-1)-020817		1225	6	S										
15		A38-16(0-1)-020817		1305	6	S										
16		A38-17(0-1)-020817		1310	6	S										
17		A38-18(0-1)-020817		1322	6	S										
18		A38-19(0-1)-020817		1338	6	S										
19		A38-20(0-1)-020817		1355	6	S										
20		FB0-1(0-1)-020817	2/8/17	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
	Weston	2/8/17	1700		TA	2/8/17	1700
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:

2/15/2017

(AE-4124-500 (1209)

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: 500-123629-1
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:
2/17/2017 4:03:45 PM

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

Client Sample ID: F40-2(0-1)-020817
Date Collected: 02/08/17 14:20
Date Received: 02/08/17 17:00

Lab Sample ID: 500-123629-1
Matrix: Solid
Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<20		20	8.8	ug/Kg	☼	02/09/17 08:50	02/13/17 17:47	1
Benzene	<2.0		2.0	0.51	ug/Kg	☼	02/09/17 08:50	02/13/17 17:47	1
Bromodichloromethane	<2.0		2.0	0.41	ug/Kg	☼	02/09/17 08:50	02/13/17 17:47	1
Bromoform	<2.0		2.0	0.59	ug/Kg	☼	02/09/17 08:50	02/13/17 17:47	1
Bromomethane	<5.0		5.0	1.9	ug/Kg	☼	02/09/17 08:50	02/13/17 17:47	1
Carbon disulfide	<5.0		5.0	1.1	ug/Kg	☼	02/09/17 08:50	02/13/17 17:47	1
Carbon tetrachloride	<2.0		2.0	0.59	ug/Kg	☼	02/09/17 08:50	02/13/17 17:47	1
Chlorobenzene	<2.0		2.0	0.75	ug/Kg	☼	02/09/17 08:50	02/13/17 17:47	1
Chloroethane	<5.0		5.0	1.5	ug/Kg	☼	02/09/17 08:50	02/13/17 17:47	1
Chloroform	<2.0		2.0	0.70	ug/Kg	☼	02/09/17 08:50	02/13/17 17:47	1
Chloromethane	<5.0		5.0	2.0	ug/Kg	☼	02/09/17 08:50	02/13/17 17:47	1
cis-1,2-Dichloroethene	<2.0		2.0	0.56	ug/Kg	☼	02/09/17 08:50	02/13/17 17:47	1
cis-1,3-Dichloropropene	<2.0		2.0	0.61	ug/Kg	☼	02/09/17 08:50	02/13/17 17:47	1
Dibromochloromethane	<2.0		2.0	0.66	ug/Kg	☼	02/09/17 08:50	02/13/17 17:47	1
1,1-Dichloroethane	<2.0		2.0	0.69	ug/Kg	☼	02/09/17 08:50	02/13/17 17:47	1
1,2-Dichloroethane	<5.0		5.0	1.6	ug/Kg	☼	02/09/17 08:50	02/13/17 17:47	1
1,1-Dichloroethene	<2.0		2.0	0.69	ug/Kg	☼	02/09/17 08:50	02/13/17 17:47	1
1,2-Dichloropropane	<2.0		2.0	0.52	ug/Kg	☼	02/09/17 08:50	02/13/17 17:47	1
1,3-Dichloropropene, Total	<2.0		2.0	0.71	ug/Kg	☼	02/09/17 08:50	02/13/17 17:47	1
Ethylbenzene	<2.0		2.0	0.97	ug/Kg	☼	02/09/17 08:50	02/13/17 17:47	1
2-Hexanone	<5.0		5.0	1.6	ug/Kg	☼	02/09/17 08:50	02/13/17 17:47	1
Methylene Chloride	<5.0		5.0	2.0	ug/Kg	☼	02/09/17 08:50	02/13/17 17:47	1
Methyl Ethyl Ketone	<5.0		5.0	2.2	ug/Kg	☼	02/09/17 08:50	02/13/17 17:47	1
methyl isobutyl ketone	<5.0		5.0	1.5	ug/Kg	☼	02/09/17 08:50	02/13/17 17:47	1
Methyl tert-butyl ether	<2.0		2.0	0.59	ug/Kg	☼	02/09/17 08:50	02/13/17 17:47	1
Styrene	<2.0		2.0	0.61	ug/Kg	☼	02/09/17 08:50	02/13/17 17:47	1
1,1,2,2-Tetrachloroethane	<2.0		2.0	0.65	ug/Kg	☼	02/09/17 08:50	02/13/17 17:47	1
Tetrachloroethene	<2.0		2.0	0.69	ug/Kg	☼	02/09/17 08:50	02/13/17 17:47	1
Toluene	<2.0		2.0	0.51	ug/Kg	☼	02/09/17 08:50	02/13/17 17:47	1
trans-1,2-Dichloroethene	<2.0		2.0	0.89	ug/Kg	☼	02/09/17 08:50	02/13/17 17:47	1
trans-1,3-Dichloropropene	<2.0		2.0	0.71	ug/Kg	☼	02/09/17 08:50	02/13/17 17:47	1
1,1,1-Trichloroethane	<2.0		2.0	0.68	ug/Kg	☼	02/09/17 08:50	02/13/17 17:47	1
1,1,2-Trichloroethane	<2.0		2.0	0.87	ug/Kg	☼	02/09/17 08:50	02/13/17 17:47	1
Trichloroethene	<2.0		2.0	0.68	ug/Kg	☼	02/09/17 08:50	02/13/17 17:47	1
Vinyl chloride	<2.0		2.0	0.89	ug/Kg	☼	02/09/17 08:50	02/13/17 17:47	1
Xylenes, Total	<4.0		4.0	0.65	ug/Kg	☼	02/09/17 08:50	02/13/17 17:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 120*	*02/09/17 08:50*	*02/13/17 17:47*	*1*
Dibromofluoromethane	*104*		*75 - 120*	*02/09/17 08:50*	*02/13/17 17:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*69 - 134*	*02/09/17 08:50*	*02/13/17 17:47*	*1*
Toluene-d8 (Surr)	*102*		*75 - 123*	*02/09/17 08:50*	*02/13/17 17:47*	*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	☼	02/13/17 07:37	02/15/17 20:00	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	02/13/17 07:37	02/15/17 20:00	1
1,3-Dichlorobenzene	<190		190	44	ug/Kg	☼	02/13/17 07:37	02/15/17 20:00	1
1,4-Dichlorobenzene	<190		190	50	ug/Kg	☼	02/13/17 07:37	02/15/17 20:00	1
2,2'-oxybis[1-chloropropane]	<190		190	45	ug/Kg	☼	02/13/17 07:37	02/15/17 20:00	1

Client Sample ID: F40-2(0-1)-020817
Date Collected: 02/08/17 14:20
Date Received: 02/08/17 17:00

Lab Sample ID: 500-123629-1
Matrix: Solid
Percent Solids: 84.0

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	☼	02/13/17 07:37	02/15/17 20:00	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	02/13/17 07:37	02/15/17 20:00	1
2,4-Dichlorophenol	<380		380	92	ug/Kg	☼	02/13/17 07:37	02/15/17 20:00	1
2,4-Dimethylphenol	<380		380	150	ug/Kg	☼	02/13/17 07:37	02/15/17 20:00	1
2,4-Dinitrophenol	<780	F1	780	680	ug/Kg	☼	02/13/17 07:37	02/15/17 20:00	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	02/13/17 07:37	02/15/17 20:00	1
2,6-Dinitrotoluene	<190		190	76	ug/Kg	☼	02/13/17 07:37	02/15/17 20:00	1
2-Chloronaphthalene	<190		190	43	ug/Kg	☼	02/13/17 07:37	02/15/17 20:00	1
2-Chlorophenol	<190		190	66	ug/Kg	☼	02/13/17 07:37	02/15/17 20:00	1
2-Methylnaphthalene	<78		78	7.1	ug/Kg	☼	02/13/17 07:37	02/15/17 20:00	1
2-Methylphenol	<190		190	62	ug/Kg	☼	02/13/17 07:37	02/15/17 20:00	1
2-Nitroaniline	<190	F1	190	52	ug/Kg	☼	02/13/17 07:37	02/15/17 20:00	1
2-Nitrophenol	<380		380	91	ug/Kg	☼	02/13/17 07:37	02/15/17 20:00	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	☼	02/13/17 07:37	02/15/17 20:00	1
3,3'-Dichlorobenzidine	<190	* F1 F2	190	54	ug/Kg	☼	02/13/17 07:37	02/15/17 20:00	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	02/13/17 07:37	02/15/17 20:00	1
4,6-Dinitro-2-methylphenol	<780	F1	780	310	ug/Kg	☼	02/13/17 07:37	02/15/17 20:00	1
4-Bromophenyl phenyl ether	<190		190	51	ug/Kg	☼	02/13/17 07:37	02/15/17 20:00	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	02/13/17 07:37	02/15/17 20:00	1
4-Chloroaniline	<780		780	180	ug/Kg	☼	02/13/17 07:37	02/15/17 20:00	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	02/13/17 07:37	02/15/17 20:00	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	02/13/17 07:37	02/15/17 20:00	1
4-Nitrophenol	<780		780	370	ug/Kg	☼	02/13/17 07:37	02/15/17 20:00	1
Acenaphthene	**9.5**	**J**	38	6.9	ug/Kg	☼	02/13/17 07:37	02/15/17 20:00	1
Acenaphthylene	**9.9**	**J**	38	5.1	ug/Kg	☼	02/13/17 07:37	02/15/17 20:00	1
Anthracene	**38**		38	6.5	ug/Kg	☼	02/13/17 07:37	02/15/17 20:00	1
Benzo[a]anthracene	**150**	*****	38	5.2	ug/Kg	☼	02/13/17 07:37	02/15/17 20:00	1
Benzo[a]pyrene	**200**	*****	38	7.5	ug/Kg	☼	02/13/17 07:37	02/15/17 20:00	1
Benzo[b]fluoranthene	**350**	*****	38	8.3	ug/Kg	☼	02/13/17 07:37	02/15/17 20:00	1
Benzo[g,h,i]perylene	**210**	*****	38	12	ug/Kg	☼	02/13/17 07:37	02/15/17 20:00	1
Benzo[k]fluoranthene	**150**	*****	38	11	ug/Kg	☼	02/13/17 07:37	02/15/17 20:00	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	02/13/17 07:37	02/15/17 20:00	1
Bis(2-chloroethyl)ether	<190		190	58	ug/Kg	☼	02/13/17 07:37	02/15/17 20:00	1
Bis(2-ethylhexyl) phthalate	**110**	**J * F1**	190	71	ug/Kg	☼	02/13/17 07:37	02/15/17 20:00	1
Butyl benzyl phthalate	<190	* F1	190	74	ug/Kg	☼	02/13/17 07:37	02/15/17 20:00	1
Carbazole	<190		190	97	ug/Kg	☼	02/13/17 07:37	02/15/17 20:00	1
Chrysene	**180**	*****	38	11	ug/Kg	☼	02/13/17 07:37	02/15/17 20:00	1
Dibenz(a,h)anthracene	<38	*	38	7.5	ug/Kg	☼	02/13/17 07:37	02/15/17 20:00	1
Dibenzofuran	<190	F1	190	45	ug/Kg	☼	02/13/17 07:37	02/15/17 20:00	1
Diethyl phthalate	<190	F1	190	65	ug/Kg	☼	02/13/17 07:37	02/15/17 20:00	1
Dimethyl phthalate	<190	F1	190	50	ug/Kg	☼	02/13/17 07:37	02/15/17 20:00	1
Di-n-butyl phthalate	<190		190	59	ug/Kg	☼	02/13/17 07:37	02/15/17 20:00	1
Di-n-octyl phthalate	<190	F1	190	63	ug/Kg	☼	02/13/17 07:37	02/15/17 20:00	1
Fluoranthene	**260**	**F1**	38	7.2	ug/Kg	☼	02/13/17 07:37	02/15/17 20:00	1
Fluorene	**11**	**J**	38	5.4	ug/Kg	☼	02/13/17 07:37	02/15/17 20:00	1
Hexachlorobenzene	<78		78	9.0	ug/Kg	☼	02/13/17 07:37	02/15/17 20:00	1
Hexachlorobutadiene	<190		190	61	ug/Kg	☼	02/13/17 07:37	02/15/17 20:00	1
Hexachlorocyclopentadiene	<780	F1	780	220	ug/Kg	☼	02/13/17 07:37	02/15/17 20:00	1
Hexachloroethane	<190	F1	190	59	ug/Kg	☼	02/13/17 07:37	02/15/17 20:00	1

Client Sample ID: F40-2(0-1)-020817
Date Collected: 02/08/17 14:20
Date Received: 02/08/17 17:00

Lab Sample ID: 500-123629-1
Matrix: Solid
Percent Solids: 84.0

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	**610**	*	38	10	ug/Kg	☼	02/13/17 07:37	02/15/17 20:00	1
Isophorone	<190		190	43	ug/Kg	☼	02/13/17 07:37	02/15/17 20:00	1
Naphthalene	**7.9**	J	38	5.9	ug/Kg	☼	02/13/17 07:37	02/15/17 20:00	1
Nitrobenzene	<38		38	9.6	ug/Kg	☼	02/13/17 07:37	02/15/17 20:00	1
N-Nitrosodi-n-propylamine	<78		78	47	ug/Kg	☼	02/13/17 07:37	02/15/17 20:00	1
N-Nitrosodiphenylamine	<190	F1	190	46	ug/Kg	☼	02/13/17 07:37	02/15/17 20:00	1
Pentachlorophenol	<780	F1	780	620	ug/Kg	☼	02/13/17 07:37	02/15/17 20:00	1
Phenanthrene	**150**		38	5.4	ug/Kg	☼	02/13/17 07:37	02/15/17 20:00	1
Phenol	<190	F1	190	86	ug/Kg	☼	02/13/17 07:37	02/15/17 20:00	1
Pyrene	**460**	* F1	38	7.7	ug/Kg	☼	02/13/17 07:37	02/15/17 20:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*77*		*25 - 130*	*02/13/17 07:37*	*02/15/17 20:00*	*1*
2-Fluorobiphenyl	*90*		*42 - 115*	*02/13/17 07:37*	*02/15/17 20:00*	*1*
2-Fluorophenol	*112*		*40 - 130*	*02/13/17 07:37*	*02/15/17 20:00*	*1*
Nitrobenzene-d5	*54*		*33 - 124*	*02/13/17 07:37*	*02/15/17 20:00*	*1*
Phenol-d5	*106*		*36 - 123*	*02/13/17 07:37*	*02/15/17 20:00*	*1*
Terphenyl-d14	*208*	*X *	*25 - 150*	*02/13/17 07:37*	*02/15/17 20:00*	*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		02/14/17 08:00	02/14/17 15:31	1
Barium	**0.26**	J	0.50	0.050	mg/L		02/14/17 08:00	02/14/17 15:31	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/14/17 08:00	02/14/17 15:31	1
Cadmium	**0.0026**	J	0.0050	0.0020	mg/L		02/14/17 08:00	02/14/17 15:31	1
Chromium	<0.025		0.025	0.010	mg/L		02/14/17 08:00	02/14/17 15:31	1
Cobalt	<0.025		0.025	0.010	mg/L		02/14/17 08:00	02/14/17 15:31	1
Copper	**0.011**	J	0.025	0.010	mg/L		02/14/17 08:00	02/14/17 15:31	1
Iron	<0.40		0.40	0.20	mg/L		02/14/17 08:00	02/14/17 15:31	1
Lead	**0.013**		0.0075	0.0075	mg/L		02/14/17 08:00	02/14/17 15:31	1
Manganese	**0.57**		0.025	0.010	mg/L		02/14/17 08:00	02/14/17 15:31	1
Nickel	<0.025		0.025	0.010	mg/L		02/14/17 08:00	02/14/17 15:31	1
Selenium	<0.050		0.050	0.020	mg/L		02/14/17 08:00	02/14/17 15:31	1
Silver	<0.025		0.025	0.010	mg/L		02/14/17 08:00	02/14/17 15:31	1
Zinc	**0.29**	J	0.50	0.020	mg/L		02/14/17 08:00	02/14/17 15:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.020**	J	0.050	0.010	mg/L		02/14/17 08:00	02/14/17 17:17	1
Barium	**0.59**		0.50	0.050	mg/L		02/14/17 08:00	02/14/17 17:17	1
Beryllium	**0.0059**		0.0040	0.0040	mg/L		02/14/17 08:00	02/14/17 17:17	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/14/17 08:00	02/14/17 17:17	1
Chromium	**0.17**		0.025	0.010	mg/L		02/14/17 08:00	02/14/17 17:17	1
Cobalt	**0.040**		0.025	0.010	mg/L		02/14/17 08:00	02/14/17 17:17	1
Copper	**0.16**		0.025	0.010	mg/L		02/14/17 08:00	02/14/17 17:17	1
Iron	**120**		0.40	0.20	mg/L		02/14/17 08:00	02/14/17 17:17	1
Lead	**0.54**		0.038	0.038	mg/L		02/14/17 08:00	02/15/17 12:54	5
Manganese	**0.70**		0.025	0.010	mg/L		02/14/17 08:00	02/14/17 17:17	1
Nickel	**0.13**		0.025	0.010	mg/L		02/14/17 08:00	02/14/17 17:17	1
Selenium	<0.050		0.050	0.020	mg/L		02/14/17 08:00	02/14/17 17:17	1

Client Sample ID: F40-2(0-1)-020817
Date Collected: 02/08/17 14:20
Date Received: 02/08/17 17:00

Lab Sample ID: 500-123629-1
Matrix: Solid
Percent Solids: 84.0

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		02/14/17 08:00	02/14/17 17:17	1
Zinc	**0.72**		0.50	0.020	mg/L		02/14/17 08:00	02/14/17 17:17	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.53**	**J F2 F1**	1.1	0.23	mg/Kg	☼	02/11/17 10:45	02/13/17 20:39	1
Arsenic	**1.8**		0.56	0.26	mg/Kg	☼	02/11/17 10:45	02/13/17 20:39	1
Barium	**30**		0.56	0.10	mg/Kg	☼	02/11/17 10:45	02/13/17 20:39	1
Beryllium	**0.24**		0.22	0.049	mg/Kg	☼	02/11/17 10:45	02/13/17 20:39	1
Cadmium	**0.30**		0.11	0.033	mg/Kg	☼	02/11/17 10:45	02/13/17 20:39	1
Calcium	**180000**	**B**	110	36	mg/Kg	☼	02/11/17 10:45	02/14/17 13:10	10
Chromium	**8.7**		0.56	0.097	mg/Kg	☼	02/11/17 10:45	02/13/17 20:39	1
Cobalt	**3.5**		0.28	0.064	mg/Kg	☼	02/11/17 10:45	02/13/17 20:39	1
Copper	**33**	**F2 F1**	0.56	0.12	mg/Kg	☼	02/11/17 10:45	02/13/17 20:39	1
Iron	**6100**		11	4.3	mg/Kg	☼	02/11/17 10:45	02/13/17 20:39	1
Lead	**66**		0.28	0.14	mg/Kg	☼	02/11/17 10:45	02/13/17 20:39	1
Magnesium	**110000**	**B**	56	23	mg/Kg	☼	02/11/17 10:45	02/14/17 13:10	10
Manganese	**220**		0.56	0.11	mg/Kg	☼	02/11/17 10:45	02/13/17 20:39	1
Nickel	**9.4**		0.56	0.15	mg/Kg	☼	02/11/17 10:45	02/13/17 20:39	1
Potassium	**600**	**F1**	28	4.6	mg/Kg	☼	02/11/17 10:45	02/13/17 20:39	1
Selenium	<0.56		0.56	0.28	mg/Kg	☼	02/11/17 10:45	02/13/17 20:39	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	02/11/17 10:45	02/13/17 20:39	1
Sodium	**930**	**F2 F1**	56	7.4	mg/Kg	☼	02/11/17 10:45	02/13/17 20:39	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	02/11/17 10:45	02/13/17 20:39	1
Vanadium	**7.0**		0.28	0.082	mg/Kg	☼	02/11/17 10:45	02/13/17 20:39	1
Zinc	**110**	**F1**	1.1	0.36	mg/Kg	☼	02/11/17 10:45	02/13/17 20:39	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 12:52	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 11:45	02/14/17 10:33	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**16**	**J**	17	9.0	ug/Kg	☼	02/10/17 16:45	02/13/17 09:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.7**		0.2	0.2	SU			02/13/17 12:24	1

Qualifiers

GC/MS VOA

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

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: 500-123629-1

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 ENVIRONMENTA

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

500-123629 COC

Chain of Custody Record

Lab Job #: 500-123629

Chain of Custody Number:

Page 3 of 6

Temperature °C of Cooler: 4.3, 4.1, 2.9, 4.0, 3.6

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: 224-864-7250	Phone: M
Fax:	Fax: K
E-Mail:	PO#/Reference#

Client	Client Project #	Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	VOC	SVOC	Total Metals	TCLP/SPLP Metals	pH
Weston Solutions		1		F40-2(0-1)-020817	2/7/17	1420	6	S	X	X	X	X	X
Project Name: IDOT 053		2		A38-21(0-1)-020817		1438	6	S	↓	↓	↓	↓	↓
Project Location/State: Beecher / IL	Lab Project #	3		A38-22(0-1)-020817		1450	6	S					
Sampler: AT	Lab PM: D. Wright	4		A38-22(0-1)-020817D		1452	6	S					
		5		A38-23(0-1)-020817	2/7/17	1520	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

Comments

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	2/8/17	1700	[signature]	TA	2/8/17	1700
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier
Shipped 2/9/17
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:

2/17/2017

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 #: 500-123629

Chain of Custody Number:

Page 4 of 6

Temperature °C of Cooler:

Report To (optional)	Bill To (optional)
Contact: S. Babusubramanian	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: JB	Lab PM: Dick Weigner	

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	VOCs	SVOCs	Total Metals	TCLP/SPLP Metals	pH	Comments
6		A44-1(0-1)-020817	2/8/17	08:40	6	SO						
7		A44-2(0-1)-020817		09:00								
8		A44-2(0-1)-020817D		09:00								
9		A44-3(0-1)-020817		09:15								
10		R46-1(0-1)-020817		09:30								
11		A44-4(0-1)-020817		09:45								
12		A44-5(0-1)-020817		09:55								
13		A44-6(0-1)-020817		10:10								
14		A44-7(0-1)-020817		10:20								
15		A44-8(0-1)-020817		10:35								

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	2/8/17	1700	[signature]	TA	2/8/17	1700
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:

2/17/2017

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, incldluding number and street):
31721-31745 S. Dixie Highway, (ISGS Site No. 3140-41)

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: 41.313809816 (Decimal Degrees) Longitude: -87.621191941 (-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: 41.313809816 Longitude: -87.621191941

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 R41-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 3140-41. SEE FIGURE 3-3 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: 500-123630-1.
ALSO SEE FIGURE 4-3 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

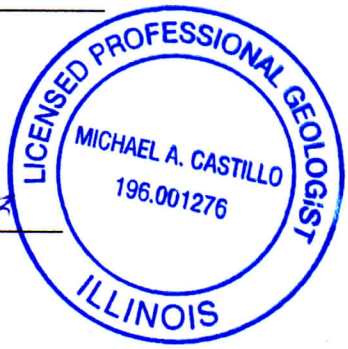
City: Mundelein State: IL Zip Code: 60060

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:



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

Summary Table of ISGS Site No. 3140-41
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	R41-1(0-1)-020817	**Soil Reference Concentrations[A]**
Sample Date	2/8/2017	
Location ID	R41-1	
Depth	0 - 1	
ISGS Site No.	3140-41	
Parameter		
Laboratory pH (s.u.)	8.5	<6.25, >9.0
VOCs	None Detected	
SVOCs (ug/kg)		
bis(2-Ethylhexyl)phthalate	71 J	46000
Total Metals (mg/kg)		
Antimony, Total	0.24 J	5
Arsenic, Total	6.2 J-	11.3 / 13.0
Barium, Total	39	1500
Beryllium, Total	0.51	22
Cadmium, Total	0.14	5.2
Calcium, Total	5500 B	---
Chromium, Total	15 B	21
Cobalt, Total	10	20
Copper, Total	16	2900
Iron, Total	17000 B	15000 / 15900
Lead, Total	24 B	107
Magnesium, Total	5600 B	325000
Manganese, Total	280	630 / 636
Mercury, Total	0.033	0.89
Nickel, Total	24	100
Potassium, Total	1000	---
Selenium, Total	0.98	1.3
Silver, Total	ND	4.4
Sodium, Total	1800	---
Thallium, Total	ND	2.6
Vanadium, Total	16	550
Zinc, Total	50	5100
TCLP Metals (mg/l)		
Arsenic, TCLP	0.011 J	0.05
Barium, TCLP	0.16 J	2
Cadmium, TCLP	ND	0.005
Chromium, TCLP	ND	0.1
Cobalt, TCLP	ND	1
Copper, TCLP	ND	0.65
Iron, TCLP	0.73	5
Lead, TCLP	ND	0.0075
Manganese, TCLP	1.6	0.15
Nickel, TCLP	ND	0.1
Selenium, TCLP	ND	0.05
Zinc, TCLP	0.027 J	5
SPLP Metals (mg/l)		
Arsenic, SPLP	0.085	0.05
Barium, SPLP	0.49 J	2
Beryllium, SPLP	0.0083	0.004
Cadmium, SPLP	ND	0.005
Chromium, SPLP	0.18	0.1
Cobalt, SPLP	0.067	1
Copper, SPLP	0.21	0.65
Iron, SPLP	210	5
Lead, SPLP	0.14	0.0075
Manganese, SPLP	1.3	0.15
Mercury, SPLP	ND	0.002
Nickel, SPLP	0.24	0.1
Zinc, SPLP	0.51	5

Summary Table of ISGS Site No. 3140-41
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

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: 500-123630-1
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:
2/17/2017 4:05:23 PM

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

Client Sample ID: R41-1(0-1)-020817
Date Collected: 02/08/17 13:20
Date Received: 02/08/17 17:00

Lab Sample ID: 500-123630-10
Matrix: Solid
Percent Solids: 83.5

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	☼	02/09/17 08:50	02/13/17 19:11	1
Benzene	<1.7		1.7	0.44	ug/Kg	☼	02/09/17 08:50	02/13/17 19:11	1
Bromodichloromethane	<1.7		1.7	0.35	ug/Kg	☼	02/09/17 08:50	02/13/17 19:11	1
Bromoform	<1.7		1.7	0.51	ug/Kg	☼	02/09/17 08:50	02/13/17 19:11	1
Bromomethane	<4.3		4.3	1.6	ug/Kg	☼	02/09/17 08:50	02/13/17 19:11	1
Carbon disulfide	<4.3		4.3	0.90	ug/Kg	☼	02/09/17 08:50	02/13/17 19:11	1
Carbon tetrachloride	<1.7		1.7	0.50	ug/Kg	☼	02/09/17 08:50	02/13/17 19:11	1
Chlorobenzene	<1.7		1.7	0.64	ug/Kg	☼	02/09/17 08:50	02/13/17 19:11	1
Chloroethane	<4.3	*	4.3	1.3	ug/Kg	☼	02/09/17 08:50	02/13/17 19:11	1
Chloroform	<1.7		1.7	0.60	ug/Kg	☼	02/09/17 08:50	02/13/17 19:11	1
Chloromethane	<4.3		4.3	1.7	ug/Kg	☼	02/09/17 08:50	02/13/17 19:11	1
cis-1,2-Dichloroethene	<1.7		1.7	0.48	ug/Kg	☼	02/09/17 08:50	02/13/17 19:11	1
cis-1,3-Dichloropropene	<1.7		1.7	0.52	ug/Kg	☼	02/09/17 08:50	02/13/17 19:11	1
Dibromochloromethane	<1.7		1.7	0.57	ug/Kg	☼	02/09/17 08:50	02/13/17 19:11	1
1,1-Dichloroethane	<1.7		1.7	0.59	ug/Kg	☼	02/09/17 08:50	02/13/17 19:11	1
1,2-Dichloroethane	<4.3		4.3	1.3	ug/Kg	☼	02/09/17 08:50	02/13/17 19:11	1
1,1-Dichloroethene	<1.7		1.7	0.59	ug/Kg	☼	02/09/17 08:50	02/13/17 19:11	1
1,2-Dichloropropane	<1.7		1.7	0.45	ug/Kg	☼	02/09/17 08:50	02/13/17 19:11	1
1,3-Dichloropropene, Total	<1.7		1.7	0.61	ug/Kg	☼	02/09/17 08:50	02/13/17 19:11	1
Ethylbenzene	<1.7		1.7	0.83	ug/Kg	☼	02/09/17 08:50	02/13/17 19:11	1
2-Hexanone	<4.3		4.3	1.3	ug/Kg	☼	02/09/17 08:50	02/13/17 19:11	1
Methylene Chloride	<4.3		4.3	1.7	ug/Kg	☼	02/09/17 08:50	02/13/17 19:11	1
Methyl Ethyl Ketone	<4.3		4.3	1.9	ug/Kg	☼	02/09/17 08:50	02/13/17 19:11	1
methyl isobutyl ketone	<4.3		4.3	1.3	ug/Kg	☼	02/09/17 08:50	02/13/17 19:11	1
Methyl tert-butyl ether	<1.7		1.7	0.51	ug/Kg	☼	02/09/17 08:50	02/13/17 19:11	1
Styrene	<1.7		1.7	0.52	ug/Kg	☼	02/09/17 08:50	02/13/17 19:11	1
1,1,2,2-Tetrachloroethane	<1.7		1.7	0.55	ug/Kg	☼	02/09/17 08:50	02/13/17 19:11	1
Tetrachloroethene	<1.7		1.7	0.59	ug/Kg	☼	02/09/17 08:50	02/13/17 19:11	1
Toluene	<1.7		1.7	0.44	ug/Kg	☼	02/09/17 08:50	02/13/17 19:11	1
trans-1,2-Dichloroethene	<1.7		1.7	0.77	ug/Kg	☼	02/09/17 08:50	02/13/17 19:11	1
trans-1,3-Dichloropropene	<1.7		1.7	0.61	ug/Kg	☼	02/09/17 08:50	02/13/17 19:11	1
1,1,1-Trichloroethane	<1.7		1.7	0.58	ug/Kg	☼	02/09/17 08:50	02/13/17 19:11	1
1,1,2-Trichloroethane	<1.7		1.7	0.74	ug/Kg	☼	02/09/17 08:50	02/13/17 19:11	1
Trichloroethene	<1.7		1.7	0.58	ug/Kg	☼	02/09/17 08:50	02/13/17 19:11	1
Vinyl chloride	<1.7		1.7	0.77	ug/Kg	☼	02/09/17 08:50	02/13/17 19:11	1
Xylenes, Total	<3.5		3.5	0.55	ug/Kg	☼	02/09/17 08:50	02/13/17 19:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 120*	*02/09/17 08:50*	*02/13/17 19:11*	*1*
Dibromofluoromethane	*96*		*75 - 120*	*02/09/17 08:50*	*02/13/17 19:11*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*69 - 134*	*02/09/17 08:50*	*02/13/17 19:11*	*1*
Toluene-d8 (Surr)	*112*		*75 - 123*	*02/09/17 08:50*	*02/13/17 19:11*	*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	☼	02/13/17 18:04	02/14/17 14:28	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	02/13/17 18:04	02/14/17 14:28	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	02/13/17 18:04	02/14/17 14:28	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	02/13/17 18:04	02/14/17 14:28	1
2,2'-oxybis[1-chloropropane]	<190		190	45	ug/Kg	☼	02/13/17 18:04	02/14/17 14:28	1

Client Sample ID: R41-1(0-1)-020817
Date Collected: 02/08/17 13:20
Date Received: 02/08/17 17:00

Lab Sample ID: 500-123630-10
Matrix: Solid
Percent Solids: 83.5

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	☼	02/13/17 18:04	02/14/17 14:28	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	02/13/17 18:04	02/14/17 14:28	1
2,4-Dichlorophenol	<380		380	91	ug/Kg	☼	02/13/17 18:04	02/14/17 14:28	1
2,4-Dimethylphenol	<380		380	150	ug/Kg	☼	02/13/17 18:04	02/14/17 14:28	1
2,4-Dinitrophenol	<780	*	780	680	ug/Kg	☼	02/13/17 18:04	02/14/17 14:28	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	02/13/17 18:04	02/14/17 14:28	1
2,6-Dinitrotoluene	<190		190	76	ug/Kg	☼	02/13/17 18:04	02/14/17 14:28	1
2-Chloronaphthalene	<190		190	43	ug/Kg	☼	02/13/17 18:04	02/14/17 14:28	1
2-Chlorophenol	<190		190	66	ug/Kg	☼	02/13/17 18:04	02/14/17 14:28	1
2-Methylnaphthalene	<78		78	7.1	ug/Kg	☼	02/13/17 18:04	02/14/17 14:28	1
2-Methylphenol	<190		190	62	ug/Kg	☼	02/13/17 18:04	02/14/17 14:28	1
2-Nitroaniline	<190		190	52	ug/Kg	☼	02/13/17 18:04	02/14/17 14:28	1
2-Nitrophenol	<380		380	91	ug/Kg	☼	02/13/17 18:04	02/14/17 14:28	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	☼	02/13/17 18:04	02/14/17 14:28	1
3,3'-Dichlorobenzidine	<190		190	54	ug/Kg	☼	02/13/17 18:04	02/14/17 14:28	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	02/13/17 18:04	02/14/17 14:28	1
4,6-Dinitro-2-methylphenol	<780		780	310	ug/Kg	☼	02/13/17 18:04	02/14/17 14:28	1
4-Bromophenyl phenyl ether	<190		190	51	ug/Kg	☼	02/13/17 18:04	02/14/17 14:28	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	02/13/17 18:04	02/14/17 14:28	1
4-Chloroaniline	<780		780	180	ug/Kg	☼	02/13/17 18:04	02/14/17 14:28	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	02/13/17 18:04	02/14/17 14:28	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	02/13/17 18:04	02/14/17 14:28	1
4-Nitrophenol	<780		780	370	ug/Kg	☼	02/13/17 18:04	02/14/17 14:28	1
Acenaphthene	<38		38	6.9	ug/Kg	☼	02/13/17 18:04	02/14/17 14:28	1
Acenaphthylene	<38		38	5.1	ug/Kg	☼	02/13/17 18:04	02/14/17 14:28	1
Anthracene	<38		38	6.4	ug/Kg	☼	02/13/17 18:04	02/14/17 14:28	1
Benzo[a]anthracene	<38		38	5.2	ug/Kg	☼	02/13/17 18:04	02/14/17 14:28	1
Benzo[a]pyrene	<38		38	7.5	ug/Kg	☼	02/13/17 18:04	02/14/17 14:28	1
Benzo[b]fluoranthene	<38		38	8.3	ug/Kg	☼	02/13/17 18:04	02/14/17 14:28	1
Benzo[g,h,i]perylene	<38		38	12	ug/Kg	☼	02/13/17 18:04	02/14/17 14:28	1
Benzo[k]fluoranthene	<38		38	11	ug/Kg	☼	02/13/17 18:04	02/14/17 14:28	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	02/13/17 18:04	02/14/17 14:28	1
Bis(2-chloroethyl)ether	<190		190	58	ug/Kg	☼	02/13/17 18:04	02/14/17 14:28	1
Bis(2-ethylhexyl) phthalate	**71**	**J**	190	70	ug/Kg	☼	02/13/17 18:04	02/14/17 14:28	1
Butyl benzyl phthalate	<190		190	73	ug/Kg	☼	02/13/17 18:04	02/14/17 14:28	1
Carbazole	<190		190	96	ug/Kg	☼	02/13/17 18:04	02/14/17 14:28	1
Chrysene	<38		38	11	ug/Kg	☼	02/13/17 18:04	02/14/17 14:28	1
Dibenz(a,h)anthracene	<38		38	7.4	ug/Kg	☼	02/13/17 18:04	02/14/17 14:28	1
Dibenzofuran	<190		190	45	ug/Kg	☼	02/13/17 18:04	02/14/17 14:28	1
Diethyl phthalate	<190		190	65	ug/Kg	☼	02/13/17 18:04	02/14/17 14:28	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	02/13/17 18:04	02/14/17 14:28	1
Di-n-butyl phthalate	<190		190	59	ug/Kg	☼	02/13/17 18:04	02/14/17 14:28	1
Di-n-octyl phthalate	<190		190	63	ug/Kg	☼	02/13/17 18:04	02/14/17 14:28	1
Fluoranthene	<38		38	7.1	ug/Kg	☼	02/13/17 18:04	02/14/17 14:28	1
Fluorene	<38		38	5.4	ug/Kg	☼	02/13/17 18:04	02/14/17 14:28	1
Hexachlorobenzene	<78		78	8.9	ug/Kg	☼	02/13/17 18:04	02/14/17 14:28	1
Hexachlorobutadiene	<190		190	61	ug/Kg	☼	02/13/17 18:04	02/14/17 14:28	1
Hexachlorocyclopentadiene	<780		780	220	ug/Kg	☼	02/13/17 18:04	02/14/17 14:28	1
Hexachloroethane	<190		190	59	ug/Kg	☼	02/13/17 18:04	02/14/17 14:28	1

Client Sample ID: R41-1(0-1)-020817
Date Collected: 02/08/17 13:20
Date Received: 02/08/17 17:00

Lab Sample ID: 500-123630-10
Matrix: Solid
Percent Solids: 83.5

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	<38		38	10	ug/Kg	☼	02/13/17 18:04	02/14/17 14:28	1
Isophorone	<190		190	43	ug/Kg	☼	02/13/17 18:04	02/14/17 14:28	1
Naphthalene	<38		38	5.9	ug/Kg	☼	02/13/17 18:04	02/14/17 14:28	1
Nitrobenzene	<38		38	9.6	ug/Kg	☼	02/13/17 18:04	02/14/17 14:28	1
N-Nitrosodi-n-propylamine	<78		78	47	ug/Kg	☼	02/13/17 18:04	02/14/17 14:28	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	02/13/17 18:04	02/14/17 14:28	1
Pentachlorophenol	<780		780	620	ug/Kg	☼	02/13/17 18:04	02/14/17 14:28	1
Phenanthrene	<38		38	5.4	ug/Kg	☼	02/13/17 18:04	02/14/17 14:28	1
Phenol	<190		190	86	ug/Kg	☼	02/13/17 18:04	02/14/17 14:28	1
Pyrene	<38		38	7.7	ug/Kg	☼	02/13/17 18:04	02/14/17 14:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*45*		*25 - 130*	*02/13/17 18:04*	*02/14/17 14:28*	*1*
2-Fluorobiphenyl	*69*		*42 - 115*	*02/13/17 18:04*	*02/14/17 14:28*	*1*
2-Fluorophenol	*82*		*40 - 130*	*02/13/17 18:04*	*02/14/17 14:28*	*1*
Nitrobenzene-d5	*77*		*33 - 124*	*02/13/17 18:04*	*02/14/17 14:28*	*1*
Phenol-d5	*86*		*36 - 123*	*02/13/17 18:04*	*02/14/17 14:28*	*1*
Terphenyl-d14	*85*		*25 - 150*	*02/13/17 18:04*	*02/14/17 14:28*	*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		02/14/17 08:49	02/14/17 17:37	1
Barium	**0.16**	**J**	0.50	0.050	mg/L		02/14/17 08:49	02/14/17 17:37	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/14/17 08:49	02/14/17 17:37	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/14/17 08:49	02/14/17 17:37	1
Chromium	<0.025		0.025	0.010	mg/L		02/14/17 08:49	02/14/17 17:37	1
Cobalt	<0.025		0.025	0.010	mg/L		02/14/17 08:49	02/14/17 17:37	1
Copper	<0.025		0.025	0.010	mg/L		02/14/17 08:49	02/14/17 17:37	1
Iron	**0.73**		0.40	0.20	mg/L		02/14/17 08:49	02/14/17 17:37	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/14/17 08:49	02/14/17 17:37	1
Manganese	**1.6**		0.025	0.010	mg/L		02/14/17 08:49	02/14/17 17:37	1
Nickel	<0.025		0.025	0.010	mg/L		02/14/17 08:49	02/14/17 17:37	1
Selenium	<0.050		0.050	0.020	mg/L		02/14/17 08:49	02/14/17 17:37	1
Silver	<0.025		0.025	0.010	mg/L		02/14/17 08:49	02/14/17 17:37	1
Zinc	**0.027**	**J**	0.50	0.020	mg/L		02/14/17 08:49	02/14/17 17:37	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		02/14/17 14:07	02/15/17 12:01	1
Barium	**0.49**	**J**	0.50	0.050	mg/L		02/14/17 14:07	02/15/17 12:01	1
Beryllium	**0.0083**		0.0040	0.0040	mg/L		02/14/17 14:07	02/15/17 12:01	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/14/17 14:07	02/15/17 12:01	1
Chromium	**0.18**		0.025	0.010	mg/L		02/14/17 14:07	02/15/17 12:01	1
Cobalt	**0.067**		0.025	0.010	mg/L		02/14/17 14:07	02/15/17 12:01	1
Copper	**0.21**		0.025	0.010	mg/L		02/14/17 14:07	02/15/17 12:01	1
Iron	**210**		0.40	0.20	mg/L		02/14/17 14:07	02/15/17 12:01	1
Lead	**0.14**		0.0075	0.0075	mg/L		02/14/17 14:07	02/15/17 12:01	1
Manganese	**1.3**		0.025	0.010	mg/L		02/14/17 14:07	02/15/17 12:01	1
Nickel	**0.24**		0.025	0.010	mg/L		02/14/17 14:07	02/15/17 12:01	1
Selenium	<0.050		0.050	0.020	mg/L		02/14/17 14:07	02/15/17 12:01	1

Client Sample ID: R41-1(0-1)-020817
Date Collected: 02/08/17 13:20
Date Received: 02/08/17 17:00

Lab Sample ID: 500-123630-10
Matrix: Solid
Percent Solids: 83.5

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		02/14/17 14:07	02/15/17 12:01	1
Zinc	**0.51**		0.50	0.020	mg/L		02/14/17 14:07	02/15/17 12:01	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.24**	**J**	1.1	0.23	mg/Kg	☼	02/11/17 10:34	02/12/17 01:10	1
Arsenic	**6.2**		0.57	0.26	mg/Kg	☼	02/11/17 10:34	02/12/17 01:10	1
Barium	**39**		0.57	0.10	mg/Kg	☼	02/11/17 10:34	02/12/17 01:10	1
Beryllium	**0.51**		0.23	0.049	mg/Kg	☼	02/11/17 10:34	02/12/17 01:10	1
Cadmium	**0.14**		0.11	0.033	mg/Kg	☼	02/11/17 10:34	02/12/17 01:10	1
Calcium	**5500**	**B**	11	3.6	mg/Kg	☼	02/11/17 10:34	02/12/17 01:10	1
Chromium	**15**	**B**	0.57	0.097	mg/Kg	☼	02/11/17 10:34	02/12/17 01:10	1
Cobalt	**10**		0.28	0.064	mg/Kg	☼	02/11/17 10:34	02/12/17 01:10	1
Copper	**16**		0.57	0.12	mg/Kg	☼	02/11/17 10:34	02/12/17 01:10	1
Iron	**17000**	**B**	11	4.4	mg/Kg	☼	02/11/17 10:34	02/12/17 01:10	1
Lead	**24**	**B**	0.28	0.14	mg/Kg	☼	02/11/17 10:34	02/12/17 01:10	1
Magnesium	**5600**	**B**	5.7	2.3	mg/Kg	☼	02/11/17 10:34	02/12/17 01:10	1
Manganese	**280**		0.57	0.11	mg/Kg	☼	02/11/17 10:34	02/12/17 01:10	1
Nickel	**24**		0.57	0.15	mg/Kg	☼	02/11/17 10:34	02/12/17 01:10	1
Potassium	**1000**		28	4.6	mg/Kg	☼	02/11/17 10:34	02/12/17 01:10	1
Selenium	**0.98**		0.57	0.28	mg/Kg	☼	02/11/17 10:34	02/12/17 01:10	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	02/11/17 10:34	02/12/17 01:10	1
Sodium	**1800**		57	7.5	mg/Kg	☼	02/11/17 10:34	02/12/17 01:10	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	02/11/17 10:34	02/12/17 01:10	1
Vanadium	**16**		0.28	0.083	mg/Kg	☼	02/11/17 10:34	02/12/17 01:10	1
Zinc	**50**		1.1	0.36	mg/Kg	☼	02/11/17 10:34	02/12/17 01:10	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		02/14/17 13:00	02/15/17 09:50	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		02/14/17 13:00	02/15/17 10:35	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**33**		18	9.5	ug/Kg	☼	02/10/17 16:45	02/13/17 12:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.5**		0.2	0.2	SU			02/13/17 14:46	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
*	LCS or LCSD is outside acceptance limits.
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

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.
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: 500-123630-1

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 ENVIRONMENTA

2417 Bond Street, University Park, IL
Phone: 708.534.5200 Fax: 708.5

500-123630 COC

(optional)

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

(optional)

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

Chain of Custody Record

Lab Job #: 500-123630
Chain of Custody Number:
Page 5 of 6
Temperature °C of Cooler: 4.3 3.4 2.2 2.9 4.0 3.6

Client	Client Project #
Weston Solution	
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	VOCs	SVOCs	Total Metals	TCLP/SPLP Metals	pH
1		A44-9(0-1)-020817	2/8/17	10:45	6	SO					
2		A44-10(0-1)-020817		11:00							
3		A44-11(0-1)-020817		11:10							
4		A44-12(0-1)-020817		11:30							
5		R43-1(0-1)-020817		12:15							
6		R43-1(0-1)-020817D		12:15							
7		R43-2(0-1)-020817		12:45							
8		M42-1(0-1)-020817		12:55							
9		M42-2(0-1)-020817		13:10							
10		R41-1(0-1)-020817		13:20							

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

Comments

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
Andrew Tay	Weston	2/8/17	1700	[signature]	TA	2/8/17	1700
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

Report To (optional)
Contact: S. Balasubkumar
Company: Weston Solutions
Address: 300 Plaza Cir, Ste 202
Address: Mundelein, IL 60060
Phone: 224-864-7200
Fax:
E-Mail:

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

Chain of Custody Record

Lab Job #: 500-123630
Chain of Custody Number:
Page 6 of 6
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

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	VOCs	SVOCs	Total Metals	TCLP/SPLP Metals	pH					Comments
11		R41-2 (0-1) - 020817	2/8/17	13:30	6	SO	X	X	X	X	X					
12		A38-1(0-1) - 020817	↓	13:45	↓	↓	X	X	X	X	X					
13		A38-2(0-1) - 020817	↓	14:00	↓	↓	X	X	X	X	X					
14		A38-3(0-1) - 020817	↓	14:15	↓	↓	X	X	X	X	X					
15		A38-4(0-1) - 020817	↓	14:30	↓	↓	X	X	X	X	X					
16		A38-5(0-1) - 020817	↓	14:45	↓	↓	X	X	X	X	X					
17		A38-5(0-1) - 020817D	↓	14:45	↓	↓	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 ☒ 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	2/8/17	1700	[signature]	TA	2/8/17	1700

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:

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):
31807 S. Dixie Highway, (ISGS Site No. 3140-42)

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: 41.312770110 (Decimal Degrees) Longitude: -87.621194670 (-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: 41.312770110 Longitude: -87.621194670

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 M42-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 3140-42. SEE FIGURE 3-3 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: 500-123630-1.
ALSO SEE FIGURE 4-3 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. 3140-42
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	M42-1(0-1)-020817	**Soil Reference Concentrations[A]**
Sample Date	2/8/2017	
Location ID	M42-1	
Depth	0 - 1	
ISGS Site No.	3140-42	
Parameter		
Laboratory pH (s.u.)	7.7	<6.25, >9.0
VOCs	None Detected	
SVOCs (ug/kg)		
Anthracene	8 J	1.2E+07
Benzo(a)anthracene	48	900 / 1100 / 1800
Benzo(a)pyrene	61	90 / 1300 / 2100
Benzo(b)fluoranthene	83	900 / 1500 /2100
Benzo(g,h,i)perylene	24 J	---
Benzo(k)fluoranthene	29 J	9000
Chrysene	59	88000
Fluoranthene	54	3100000
Indeno(1,2,3-cd)pyrene	24 J	900 / 900 / 1600
Phenanthrene	33 J	
Pyrene	66	2300000
Total Metals (mg/kg)		
Antimony, Total	ND	5
Arsenic, Total	7.4 J-	11.3 / 13.0
Barium, Total	62	1500
Beryllium, Total	0.51	22
Cadmium, Total	0.26	5.2
Calcium, Total	4600 B	---
Chromium, Total	14 B	21
Cobalt, Total	12	20
Copper, Total	19	2900
Iron, Total	17000 B	15000 / 15900
Lead, Total	47 B	107
Magnesium, Total	4100 B	325000
Manganese, Total	350	630 / 636
Mercury, Total	0.036	0.89
Nickel, Total	19	100
Potassium, Total	900	---
Selenium, Total	0.84	1.3
Silver, Total	ND	4.4
Sodium, Total	290	---
Thallium, Total	ND	2.6
Vanadium, Total	19	550
Zinc, Total	98	5100
TCLP Metals (mg/l)		
Arsenic, TCLP	0.012 J	0.05
Barium, TCLP	0.28 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	0.016	0.0075
Manganese, TCLP	0.98	0.15
Nickel, TCLP	ND	0.1
Selenium, TCLP	ND	0.05
Zinc, TCLP	0.073 J	5

Summary Table of ISGS Site No. 3140-42
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
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Beecher, Will County, Illinois

Field Sample ID	M42-1(0-1)-020817	**Soil Reference Concentrations[A]**
Sample Date	2/8/2017	
Location ID	M42-1	
Depth	0 - 1	
ISGS Site No.	3140-42	
Parameter		
SPLP Metals (mg/l)		
Arsenic, SPLP	0.052	0.05
Barium, SPLP	0.54	2
Beryllium, SPLP	0.0063	0.004
Cadmium, SPLP	ND	0.005
Chromium, SPLP	0.14	0.1
Cobalt, SPLP	0.035	1
Copper, SPLP	0.17	0.65
Iron, SPLP	160	5
Lead, SPLP	0.16	0.0075
Manganese, SPLP	0.62	0.15
Mercury, SPLP	ND	0.002
Nickel, SPLP	0.16	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: 500-123630-1
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:
2/17/2017 4:05:23 PM

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

Client Sample ID: M42-1(0-1)-020817
Date Collected: 02/08/17 12:55
Date Received: 02/08/17 17:00

Lab Sample ID: 500-123630-8
Matrix: Solid
Percent Solids: 78.4

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	☼	02/09/17 08:50	02/13/17 18:22	1
Benzene	<2.0		2.0	0.52	ug/Kg	☼	02/09/17 08:50	02/13/17 18:22	1
Bromodichloromethane	<2.0		2.0	0.41	ug/Kg	☼	02/09/17 08:50	02/13/17 18:22	1
Bromoform	<2.0		2.0	0.59	ug/Kg	☼	02/09/17 08:50	02/13/17 18:22	1
Bromomethane	<5.1		5.1	1.9	ug/Kg	☼	02/09/17 08:50	02/13/17 18:22	1
Carbon disulfide	<5.1		5.1	1.1	ug/Kg	☼	02/09/17 08:50	02/13/17 18:22	1
Carbon tetrachloride	<2.0		2.0	0.59	ug/Kg	☼	02/09/17 08:50	02/13/17 18:22	1
Chlorobenzene	<2.0		2.0	0.75	ug/Kg	☼	02/09/17 08:50	02/13/17 18:22	1
Chloroethane	<5.1	*	5.1	1.5	ug/Kg	☼	02/09/17 08:50	02/13/17 18:22	1
Chloroform	<2.0		2.0	0.71	ug/Kg	☼	02/09/17 08:50	02/13/17 18:22	1
Chloromethane	<5.1		5.1	2.0	ug/Kg	☼	02/09/17 08:50	02/13/17 18:22	1
cis-1,2-Dichloroethene	<2.0		2.0	0.57	ug/Kg	☼	02/09/17 08:50	02/13/17 18:22	1
cis-1,3-Dichloropropene	<2.0		2.0	0.61	ug/Kg	☼	02/09/17 08:50	02/13/17 18:22	1
Dibromochloromethane	<2.0		2.0	0.67	ug/Kg	☼	02/09/17 08:50	02/13/17 18:22	1
1,1-Dichloroethane	<2.0		2.0	0.70	ug/Kg	☼	02/09/17 08:50	02/13/17 18:22	1
1,2-Dichloroethane	<5.1		5.1	1.6	ug/Kg	☼	02/09/17 08:50	02/13/17 18:22	1
1,1-Dichloroethene	<2.0		2.0	0.70	ug/Kg	☼	02/09/17 08:50	02/13/17 18:22	1
1,2-Dichloropropane	<2.0		2.0	0.53	ug/Kg	☼	02/09/17 08:50	02/13/17 18:22	1
1,3-Dichloropropene, Total	<2.0		2.0	0.72	ug/Kg	☼	02/09/17 08:50	02/13/17 18:22	1
Ethylbenzene	<2.0		2.0	0.97	ug/Kg	☼	02/09/17 08:50	02/13/17 18:22	1
2-Hexanone	<5.1		5.1	1.6	ug/Kg	☼	02/09/17 08:50	02/13/17 18:22	1
Methylene Chloride	<5.1		5.1	2.0	ug/Kg	☼	02/09/17 08:50	02/13/17 18:22	1
Methyl Ethyl Ketone	<5.1		5.1	2.3	ug/Kg	☼	02/09/17 08:50	02/13/17 18:22	1
methyl isobutyl ketone	<5.1		5.1	1.5	ug/Kg	☼	02/09/17 08:50	02/13/17 18:22	1
Methyl tert-butyl ether	<2.0		2.0	0.60	ug/Kg	☼	02/09/17 08:50	02/13/17 18:22	1
Styrene	<2.0		2.0	0.62	ug/Kg	☼	02/09/17 08:50	02/13/17 18:22	1
1,1,2,2-Tetrachloroethane	<2.0		2.0	0.65	ug/Kg	☼	02/09/17 08:50	02/13/17 18:22	1
Tetrachloroethene	<2.0		2.0	0.69	ug/Kg	☼	02/09/17 08:50	02/13/17 18:22	1
Toluene	<2.0		2.0	0.51	ug/Kg	☼	02/09/17 08:50	02/13/17 18:22	1
trans-1,2-Dichloroethene	<2.0		2.0	0.90	ug/Kg	☼	02/09/17 08:50	02/13/17 18:22	1
trans-1,3-Dichloropropene	<2.0		2.0	0.72	ug/Kg	☼	02/09/17 08:50	02/13/17 18:22	1
1,1,1-Trichloroethane	<2.0		2.0	0.68	ug/Kg	☼	02/09/17 08:50	02/13/17 18:22	1
1,1,2-Trichloroethane	<2.0		2.0	0.87	ug/Kg	☼	02/09/17 08:50	02/13/17 18:22	1
Trichloroethene	<2.0		2.0	0.69	ug/Kg	☼	02/09/17 08:50	02/13/17 18:22	1
Vinyl chloride	<2.0		2.0	0.90	ug/Kg	☼	02/09/17 08:50	02/13/17 18:22	1
Xylenes, Total	<4.1		4.1	0.65	ug/Kg	☼	02/09/17 08:50	02/13/17 18:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 120*	*02/09/17 08:50*	*02/13/17 18:22*	*1*
Dibromofluoromethane	*96*		*75 - 120*	*02/09/17 08:50*	*02/13/17 18:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*69 - 134*	*02/09/17 08:50*	*02/13/17 18:22*	*1*
Toluene-d8 (Surr)	*110*		*75 - 123*	*02/09/17 08:50*	*02/13/17 18:22*	*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	44	ug/Kg	☼	02/13/17 18:04	02/14/17 15:25	1
1,2-Dichlorobenzene	<210		210	49	ug/Kg	☼	02/13/17 18:04	02/14/17 15:25	1
1,3-Dichlorobenzene	<210		210	46	ug/Kg	☼	02/13/17 18:04	02/14/17 15:25	1
1,4-Dichlorobenzene	<210		210	52	ug/Kg	☼	02/13/17 18:04	02/14/17 15:25	1
2,2'-oxybis[1-chloropropane]	<210		210	47	ug/Kg	☼	02/13/17 18:04	02/14/17 15:25	1

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Date Received: 02/08/17 17:00

Lab Sample ID: 500-123630-8
Matrix: Solid
Percent Solids: 78.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<410		410	93	ug/Kg	☼	02/13/17 18:04	02/14/17 15:25	1
2,4,6-Trichlorophenol	<410		410	140	ug/Kg	☼	02/13/17 18:04	02/14/17 15:25	1
2,4-Dichlorophenol	<410		410	97	ug/Kg	☼	02/13/17 18:04	02/14/17 15:25	1
2,4-Dimethylphenol	<410		410	160	ug/Kg	☼	02/13/17 18:04	02/14/17 15:25	1
2,4-Dinitrophenol	<820	*	820	720	ug/Kg	☼	02/13/17 18:04	02/14/17 15:25	1
2,4-Dinitrotoluene	<210		210	65	ug/Kg	☼	02/13/17 18:04	02/14/17 15:25	1
2,6-Dinitrotoluene	<210		210	80	ug/Kg	☼	02/13/17 18:04	02/14/17 15:25	1
2-Chloronaphthalene	<210		210	45	ug/Kg	☼	02/13/17 18:04	02/14/17 15:25	1
2-Chlorophenol	<210		210	70	ug/Kg	☼	02/13/17 18:04	02/14/17 15:25	1
2-Methylnaphthalene	<82		82	7.5	ug/Kg	☼	02/13/17 18:04	02/14/17 15:25	1
2-Methylphenol	<210		210	66	ug/Kg	☼	02/13/17 18:04	02/14/17 15:25	1
2-Nitroaniline	<210		210	55	ug/Kg	☼	02/13/17 18:04	02/14/17 15:25	1
2-Nitrophenol	<410		410	97	ug/Kg	☼	02/13/17 18:04	02/14/17 15:25	1
3 & 4 Methylphenol	<210		210	68	ug/Kg	☼	02/13/17 18:04	02/14/17 15:25	1
3,3'-Dichlorobenzidine	<210		210	57	ug/Kg	☼	02/13/17 18:04	02/14/17 15:25	1
3-Nitroaniline	<410		410	130	ug/Kg	☼	02/13/17 18:04	02/14/17 15:25	1
4,6-Dinitro-2-methylphenol	<820		820	330	ug/Kg	☼	02/13/17 18:04	02/14/17 15:25	1
4-Bromophenyl phenyl ether	<210		210	54	ug/Kg	☼	02/13/17 18:04	02/14/17 15:25	1
4-Chloro-3-methylphenol	<410		410	140	ug/Kg	☼	02/13/17 18:04	02/14/17 15:25	1
4-Chloroaniline	<820		820	190	ug/Kg	☼	02/13/17 18:04	02/14/17 15:25	1
4-Chlorophenyl phenyl ether	<210		210	48	ug/Kg	☼	02/13/17 18:04	02/14/17 15:25	1
4-Nitroaniline	<410		410	170	ug/Kg	☼	02/13/17 18:04	02/14/17 15:25	1
4-Nitrophenol	<820		820	390	ug/Kg	☼	02/13/17 18:04	02/14/17 15:25	1
Acenaphthene	<41		41	7.3	ug/Kg	☼	02/13/17 18:04	02/14/17 15:25	1
Acenaphthylene	<41		41	5.4	ug/Kg	☼	02/13/17 18:04	02/14/17 15:25	1
Anthracene	**8.0**	**J**	41	6.8	ug/Kg	☼	02/13/17 18:04	02/14/17 15:25	1
Benzo[a]anthracene	**48**		41	5.5	ug/Kg	☼	02/13/17 18:04	02/14/17 15:25	1
Benzo[a]pyrene	**61**		41	7.9	ug/Kg	☼	02/13/17 18:04	02/14/17 15:25	1
Benzo[b]fluoranthene	**83**		41	8.8	ug/Kg	☼	02/13/17 18:04	02/14/17 15:25	1
Benzo[g,h,i]perylene	**24**	**J**	41	13	ug/Kg	☼	02/13/17 18:04	02/14/17 15:25	1
Benzo[k]fluoranthene	**29**	**J**	41	12	ug/Kg	☼	02/13/17 18:04	02/14/17 15:25	1
Bis(2-chloroethoxy)methane	<210		210	42	ug/Kg	☼	02/13/17 18:04	02/14/17 15:25	1
Bis(2-chloroethyl)ether	<210		210	61	ug/Kg	☼	02/13/17 18:04	02/14/17 15:25	1
Bis(2-ethylhexyl) phthalate	<210		210	75	ug/Kg	☼	02/13/17 18:04	02/14/17 15:25	1
Butyl benzyl phthalate	<210		210	78	ug/Kg	☼	02/13/17 18:04	02/14/17 15:25	1
Carbazole	<210		210	100	ug/Kg	☼	02/13/17 18:04	02/14/17 15:25	1
Chrysene	**59**		41	11	ug/Kg	☼	02/13/17 18:04	02/14/17 15:25	1
Dibenz(a,h)anthracene	<41		41	7.9	ug/Kg	☼	02/13/17 18:04	02/14/17 15:25	1
Dibenzofuran	<210		210	48	ug/Kg	☼	02/13/17 18:04	02/14/17 15:25	1
Diethyl phthalate	<210		210	69	ug/Kg	☼	02/13/17 18:04	02/14/17 15:25	1
Dimethyl phthalate	<210		210	53	ug/Kg	☼	02/13/17 18:04	02/14/17 15:25	1
Di-n-butyl phthalate	<210		210	62	ug/Kg	☼	02/13/17 18:04	02/14/17 15:25	1
Di-n-octyl phthalate	<210		210	67	ug/Kg	☼	02/13/17 18:04	02/14/17 15:25	1
Fluoranthene	**54**		41	7.6	ug/Kg	☼	02/13/17 18:04	02/14/17 15:25	1
Fluorene	<41		41	5.7	ug/Kg	☼	02/13/17 18:04	02/14/17 15:25	1
Hexachlorobenzene	<82		82	9.5	ug/Kg	☼	02/13/17 18:04	02/14/17 15:25	1
Hexachlorobutadiene	<210		210	64	ug/Kg	☼	02/13/17 18:04	02/14/17 15:25	1
Hexachlorocyclopentadiene	<820		820	240	ug/Kg	☼	02/13/17 18:04	02/14/17 15:25	1
Hexachloroethane	<210		210	62	ug/Kg	☼	02/13/17 18:04	02/14/17 15:25	1

Client Sample ID: M42-1(0-1)-020817
Date Collected: 02/08/17 12:55
Date Received: 02/08/17 17:00

Lab Sample ID: 500-123630-8
Matrix: Solid
Percent Solids: 78.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**24**	**J**	41	11	ug/Kg	☼	02/13/17 18:04	02/14/17 15:25	1
Isophorone	<210		210	46	ug/Kg	☼	02/13/17 18:04	02/14/17 15:25	1
Naphthalene	<41		41	6.3	ug/Kg	☼	02/13/17 18:04	02/14/17 15:25	1
Nitrobenzene	<41		41	10	ug/Kg	☼	02/13/17 18:04	02/14/17 15:25	1
N-Nitrosodi-n-propylamine	<82		82	50	ug/Kg	☼	02/13/17 18:04	02/14/17 15:25	1
N-Nitrosodiphenylamine	<210		210	48	ug/Kg	☼	02/13/17 18:04	02/14/17 15:25	1
Pentachlorophenol	<820		820	660	ug/Kg	☼	02/13/17 18:04	02/14/17 15:25	1
Phenanthrene	**33**	**J**	41	5.7	ug/Kg	☼	02/13/17 18:04	02/14/17 15:25	1
Phenol	<210		210	91	ug/Kg	☼	02/13/17 18:04	02/14/17 15:25	1
Pyrene	**66**		41	8.1	ug/Kg	☼	02/13/17 18:04	02/14/17 15:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*47*		*25 - 130*	*02/13/17 18:04*	*02/14/17 15:25*	*1*
2-Fluorobiphenyl	*68*		*42 - 115*	*02/13/17 18:04*	*02/14/17 15:25*	*1*
2-Fluorophenol	*83*		*40 - 130*	*02/13/17 18:04*	*02/14/17 15:25*	*1*
Nitrobenzene-d5	*72*		*33 - 124*	*02/13/17 18:04*	*02/14/17 15:25*	*1*
Phenol-d5	*85*		*36 - 123*	*02/13/17 18:04*	*02/14/17 15:25*	*1*
Terphenyl-d14	*74*		*25 - 150*	*02/13/17 18:04*	*02/14/17 15:25*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.012**	**J**	0.050	0.010	mg/L		02/14/17 08:49	02/14/17 17:22	1
Barium	**0.28**	**J**	0.50	0.050	mg/L		02/14/17 08:49	02/14/17 17:22	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/14/17 08:49	02/14/17 17:22	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/14/17 08:49	02/14/17 17:22	1
Chromium	<0.025		0.025	0.010	mg/L		02/14/17 08:49	02/14/17 17:22	1
Cobalt	<0.025		0.025	0.010	mg/L		02/14/17 08:49	02/14/17 17:22	1
Copper	<0.025		0.025	0.010	mg/L		02/14/17 08:49	02/14/17 17:22	1
Iron	<0.40		0.40	0.20	mg/L		02/14/17 08:49	02/14/17 17:22	1
Lead	**0.016**		0.0075	0.0075	mg/L		02/14/17 08:49	02/14/17 17:22	1
Manganese	**0.98**		0.025	0.010	mg/L		02/14/17 08:49	02/14/17 17:22	1
Nickel	<0.025		0.025	0.010	mg/L		02/14/17 08:49	02/14/17 17:22	1
Selenium	<0.050		0.050	0.020	mg/L		02/14/17 08:49	02/14/17 17:22	1
Silver	<0.025		0.025	0.010	mg/L		02/14/17 08:49	02/14/17 17:22	1
Zinc	**0.073**	**J**	0.50	0.020	mg/L		02/14/17 08:49	02/14/17 17:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.052**		0.050	0.010	mg/L		02/14/17 14:07	02/15/17 11:46	1
Barium	**0.54**		0.50	0.050	mg/L		02/14/17 14:07	02/15/17 11:46	1
Beryllium	**0.0063**		0.0040	0.0040	mg/L		02/14/17 14:07	02/15/17 11:46	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/14/17 14:07	02/15/17 11:46	1
Chromium	**0.14**		0.025	0.010	mg/L		02/14/17 14:07	02/15/17 11:46	1
Cobalt	**0.035**		0.025	0.010	mg/L		02/14/17 14:07	02/15/17 11:46	1
Copper	**0.17**		0.025	0.010	mg/L		02/14/17 14:07	02/15/17 11:46	1
Iron	**160**		0.40	0.20	mg/L		02/14/17 14:07	02/15/17 11:46	1
Lead	**0.16**		0.0075	0.0075	mg/L		02/14/17 14:07	02/15/17 11:46	1
Manganese	**0.62**		0.025	0.010	mg/L		02/14/17 14:07	02/15/17 11:46	1
Nickel	**0.16**		0.025	0.010	mg/L		02/14/17 14:07	02/15/17 11:46	1
Selenium	<0.050		0.050	0.020	mg/L		02/14/17 14:07	02/15/17 11:46	1

Client Sample ID: M42-1(0-1)-020817
Date Collected: 02/08/17 12:55
Date Received: 02/08/17 17:00

Lab Sample ID: 500-123630-8
Matrix: Solid
Percent Solids: 78.4

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		02/14/17 14:07	02/15/17 11:46	1
Zinc	**0.70**		0.50	0.020	mg/L		02/14/17 14:07	02/15/17 11:46	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	☼	02/11/17 10:34	02/12/17 01:01	1
Arsenic	**7.4**		0.60	0.27	mg/Kg	☼	02/11/17 10:34	02/12/17 01:01	1
Barium	**62**		0.60	0.11	mg/Kg	☼	02/11/17 10:34	02/12/17 01:01	1
Beryllium	**0.51**		0.24	0.052	mg/Kg	☼	02/11/17 10:34	02/12/17 01:01	1
Cadmium	**0.26**		0.12	0.034	mg/Kg	☼	02/11/17 10:34	02/12/17 01:01	1
Calcium	**4600**	**B**	12	3.8	mg/Kg	☼	02/11/17 10:34	02/12/17 01:01	1
Chromium	**14**	**B**	0.60	0.10	mg/Kg	☼	02/11/17 10:34	02/12/17 01:01	1
Cobalt	**12**		0.30	0.067	mg/Kg	☼	02/11/17 10:34	02/12/17 01:01	1
Copper	**19**		0.60	0.13	mg/Kg	☼	02/11/17 10:34	02/12/17 01:01	1
Iron	**17000**	**B**	12	4.6	mg/Kg	☼	02/11/17 10:34	02/12/17 01:01	1
Lead	**47**	**B**	0.30	0.15	mg/Kg	☼	02/11/17 10:34	02/12/17 01:01	1
Magnesium	**4100**	**B**	6.0	2.4	mg/Kg	☼	02/11/17 10:34	02/12/17 01:01	1
Manganese	**350**		0.60	0.12	mg/Kg	☼	02/11/17 10:34	02/12/17 01:01	1
Nickel	**19**		0.60	0.16	mg/Kg	☼	02/11/17 10:34	02/12/17 01:01	1
Potassium	**900**		30	4.9	mg/Kg	☼	02/11/17 10:34	02/12/17 01:01	1
Selenium	**0.84**		0.60	0.29	mg/Kg	☼	02/11/17 10:34	02/12/17 01:01	1
Silver	<0.30		0.30	0.070	mg/Kg	☼	02/11/17 10:34	02/12/17 01:01	1
Sodium	**290**		60	7.9	mg/Kg	☼	02/11/17 10:34	02/12/17 01:01	1
Thallium	<0.60		0.60	0.29	mg/Kg	☼	02/11/17 10:34	02/12/17 01:01	1
Vanadium	**19**		0.30	0.087	mg/Kg	☼	02/11/17 10:34	02/12/17 01:01	1
Zinc	**98**		1.2	0.38	mg/Kg	☼	02/11/17 10:34	02/12/17 01:01	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		02/14/17 13:00	02/15/17 09:47	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		02/14/17 13:00	02/15/17 10:33	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**36**		19	9.9	ug/Kg	☼	02/10/17 16:45	02/13/17 12:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.7**		0.2	0.2	SU			02/13/17 14:35	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
*	LCS or LCSD is outside acceptance limits.
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

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.
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: 500-123630-1

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 ENVIRONMENTA

2417 Bond Street, University Park, IL
Phone: 708.534.5200 Fax: 708.5

500-123630 COC

(optional)

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

(optional)

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

Chain of Custody Record

Lab Job #: 500-123630
Chain of Custody Number:
Page 5 of 6
Temperature °C of Cooler: 4.3 3.4 2.2 2.9 4.0 3.6

Client	Client Project #
Weston Solution	
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	VOCs	SVOCs	Total Metals	TCLP/SPLP Metals	pH
1		A44-9(0-1)-020817	2/8/17	10:45	6	SO					
2		A44-10(0-1)-020817		11:00							
3		A44-11(0-1)-020817		11:10							
4		A44-12(0-1)-020817		11:30							
5		R43-1(0-1)-020817		12:15							
6		R43-1(0-1)-020817D		12:15							
7		R43-2(0-1)-020817		12:45							
8		M42-1(0-1)-020817		12:55							
9		M42-2(0-1)-020817		13:10							
10		R41-1(0-1)-020817		13:20							

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

Comments

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
Andrew Tay	Weston	2/8/17	1700	[signature]	TA	2/8/17	1700
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

Report To (optional)
Contact: S. Balasubkumar
Company: Weston Solutions
Address: 300 Plaza Cir, Ste 202
Address: Mundelein, IL 60060
Phone: 224-864-7200
Fax:
E-Mail:

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

Chain of Custody Record

Lab Job #: 500-123630
Chain of Custody Number:
Page 6 of 6
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

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	VOCs	SVOCs	Total Metals	TCLP/SPLP Metals	pH					Comments
11		R41-2 (0-1)-020817	2/8/17	13:30	6	SO	X	X	X	X	X					
12		A38-1(0-1)-020817	↓	13:45	↓	↓	X	X	X	X	X					
13		A38-2(0-1)-020817	↓	14:00	↓	↓	X	X	X	X	X					
14		A38-3(0-1)-020817	↓	14:15	↓	↓	X	X	X	X	X					
15		A38-4(0-1)-020817	↓	14:30	↓	↓	X	X	X	X	X					
16		A38-5(0-1)-020817	↓	14:45	↓	↓	X	X	X	X	X					
17		A38-5(0-1)-020817D	↓	14:45	↓	↓	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	2/8/17	1700	[signature]	TA	2/8/17	1700

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:

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):
31900-33000 S. Dixie Highway, (ISGS Site No. 3140-44)

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: 41.309605591 (Decimal Degrees) Longitude: -87.621186648 (-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: 41.309605591 Longitude: -87.621186648

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 A44-4, A44-6, A44-8, A44-11 THROUGH A44-15, AND A44-20 WERE SAMPLED ADJACENT TO ISGS SITE No. 3140-44. SEE FIGURES 3-1/3-2 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, 500-123628-1, 500-123629-1, AND 500-123630-1. ALSO SEE FIGURES 4-1 AND 4-2 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. 3140-44
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	A44-4(0-1)-020817	A44-6(0-1)-020817	A44-8(0-1)-020817	A44-11(0-1)-020817	A44-12(0-1)-020817	Soil Reference Concentrations[A]
Sample Date	2/8/2017	2/8/2017	2/8/2017	2/8/2017	2/8/2017	
Location ID	A44-4	A44-6	A44-8	A44-11	A44-12	
Depth	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	
ISGS Site No.	3140-44	3140-44	3140-44	3140-44	3140-44	
Parameter						
Laboratory pH (s.u.)	8.2	7.4	7.5	7.1	8.6	<6.25, >9.0
VOCs	None Detected					
SVOCs (ug/kg)						
2-Methylnaphthalene	ND	17 J	ND	9.6 J	ND	---
Acenaphthene	ND	7.3 J	ND	13 J	ND	570000
Acenaphthylene	ND	ND	9.8 J	15 J	ND	---
Anthracene	ND	20 J	23 J	33 J	ND	1.2E+07
Benzo(a)anthracene	ND	85	78	100	30 J	900 / 1100 / 1800
Benzo(a)pyrene	ND	230 J	130 J	100	36 J	90 / 1300 / 2100
Benzo(b)fluoranthene	13 J	280 J	240 J	180	55	900 / 1500 /2100
Benzo(g,h,i)perylene	ND	100 J	100 J	40 J	23 J	---
Benzo(k)fluoranthene	ND	110 J	47 J	57	16 J	9000
bis(2-Ethylhexyl)phthalate	ND	ND	82 J	ND	ND	46000
Chrysene	ND	96	87	110	37 J	88000
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND	90 / 200 / 420
Fluoranthene	11 J	170	160	270	54	3100000
Fluorene	ND	10 J	7.9 J	13 J	ND	560000
Indeno(1,2,3-cd)pyrene	ND	120 J	86 J	35 J	25 J	900 / 900 / 1600
Naphthalene, SVOC	ND	11 J	ND	8 J	ND	1800
Phenanthrene	5.7 J	110	110	180	31 J	
Phenol	ND	310	ND	ND	ND	100000
Pyrene	10 J	230	210	240	48	2300000
Total Metals (mg/kg)						
Antimony, Total	0.26 J	0.33 J	0.43 J	0.58 J	ND	5
Arsenic, Total	9.7	7.3	7.2	5.5 J-	7 J-	11.3 / 13.0
Barium, Total	42	54	98	87	71	1500
Beryllium, Total	0.59	0.53	0.68	0.49	0.49	22
Cadmium, Total	ND	0.15	0.31	3.3	0.27	5.2
Calcium, Total	2900 B	6200 B	7000 B	22000 B	5300 B	---
Chromium, Total	14	15	15	13 B	13 B	21
Cobalt, Total	12	9.1	7.3	7.3	10	20
Copper, Total	24	21	25	21	17	2900
Iron, Total	19000 B	16000 B	16000 B	14000 B	17000 B	15000 / 15900
Lead, Total	41	84	83	130 B	37 B	107
Magnesium, Total	3800 B	4600 B	4700 B	14000 B	4500 B	325000
Manganese, Total	380	460	370	480	480	630 / 636
Mercury, Total	0.036	0.047	0.073	0.052	0.021	0.89
Nickel, Total	30	19	19	16	21	100
Potassium, Total	1000	1100	1300	1000	930	---
Selenium, Total	ND	0.73	0.59 J	0.96	0.82	1.3
Silver, Total	ND	ND	ND	ND	ND	4.4
Sodium, Total	350	360	1200	820	1000	---
Thallium, Total	ND	ND	ND	ND	ND	2.6
Vanadium, Total	16	17	21	16	18	550
Zinc, Total	71	110	130	230	92	5100
TCLP Metals (mg/l)						
Arsenic, TCLP	ND	ND	ND	ND	ND	0.05
Barium, TCLP	0.26 J	0.28 J	0.32 J	0.53	0.51	2
Cadmium, TCLP	ND	0.0024 J	0.002 J	0.0059	ND	0.005
Chromium, TCLP	ND	ND	ND	ND	ND	0.1
Cobalt, TCLP	ND	ND	ND	ND	ND	1
Copper, TCLP	ND	0.022 J	ND	ND	0.016 J	0.65
Iron, TCLP	ND	0.39 J	ND	ND	ND	5
Lead, TCLP	ND	0.011	ND	ND	ND	0.0075
Manganese, TCLP	0.096	0.29	0.19	0.29	0.9	0.15
Nickel, TCLP	ND	ND	ND	ND	ND	0.1
Selenium, TCLP	ND	ND	ND	ND	ND	0.05
Zinc, TCLP	ND	0.096 J	0.06 J	0.44 J	0.041 J	5

Summary Table of ISGS Site No. 3140-44
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	A44-4(0-1)-020817	A44-6(0-1)-020817	A44-8(0-1)-020817	A44-11(0-1)-020817	A44-12(0-1)-020817	Soil Reference Concentrations[A]
Sample Date	2/8/2017	2/8/2017	2/8/2017	2/8/2017	2/8/2017	
Location ID	A44-4	A44-6	A44-8	A44-11	A44-12	
Depth	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	
ISGS Site No.	3140-44	3140-44	3140-44	3140-44	3140-44	
Parameter						
SPLP Metals (mg/l)						
Arsenic, SPLP	0.088	0.03 J	0.027 J	ND	0.067	0.05
Barium, SPLP	0.48 J	0.27 J	0.63	0.3 J	0.6	2
Beryllium, SPLP	0.0075	ND	0.004	ND	0.0062	0.004
Cadmium, SPLP	ND	ND	ND	0.0033 J	ND	0.005
Chromium, SPLP	0.16	0.086	0.11	0.053	0.14	0.1
Cobalt, SPLP	0.066	0.029	0.02 J	ND	0.039	1
Copper, SPLP	0.26	0.11	0.14	0.051	0.18	0.65
Iron, SPLP	200	86	99 J+	43	160	5
Lead, SPLP	0.19	0.2	0.29 J	0.11	0.17	0.0075
Manganese, SPLP	1.9	0.98	0.71	0.42	0.75	0.15
Mercury, SPLP	ND	ND	ND	ND	ND	0.002
Nickel, SPLP	0.28	0.095	0.096	0.039	0.16	0.1
Zinc, SPLP	0.63	0.43 J	0.73	0.65	0.7	5

Summary Table of ISGS Site No. 3140-44
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	A44-13(0-1)-020717	A44-14(0-1)-020817	A44-14(0-1)-020817D	A44-15(0-1)-020817	A44-20(0-1)-020817	Soil Reference Concentrations[A]
Sample Date	2/7/2017	2/8/2017	2/8/2017	2/8/2017	2/8/2017	
Location ID	A44-13	A44-14	A44-14	A44-15	A44-20	
Depth	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	
ISGS Site No.	3140-44	3140-44	3140-44	3140-44	3140-44	
Parameter						
Laboratory pH (s.u.)	8.4	8.4	8.3	8.4	7.9	<6.25, >9.0
VOCs	None Detected					
SVOCs (ug/kg)						
2-Methylnaphthalene	ND	ND	ND	ND	ND	---
Acenaphthene	ND	ND	22 J	ND	16 J	570000
Acenaphthylene	ND	37	ND	ND	5.6 J	---
Anthracene	7 J	12 J	44	12 J	37 J	1.2E+07
Benzo(a)anthracene	34 J	74	120	46	170	900 / 1100 / 1800
Benzo(a)pyrene	32 J	130	110	45	170 J	90 / 1300 / 2100
Benzo(b)fluoranthene	84 J	200	170	73	300 J	900 / 1500 /2100
Benzo(g,h,i)perylene	ND	64	39	20 J	78 J	---
Benzo(k)fluoranthene	84 J	89	79	32 J	130 J	9000
bis(2-Ethylhexyl)phthalate	ND	ND	110 J	ND	ND	46000
Chrysene	41	84	120	52	190	88000
Dibenzo(a,h)anthracene	ND	16 J	ND	ND	ND	90 / 200 / 420
Fluoranthene	87	100 J	310 J	120	450	3100000
Fluorene	ND	ND	21 J	ND	15 J	560000
Indeno(1,2,3-cd)pyrene	ND	57	32 J	18 J	64 J	900 / 900 / 1600
Naphthalene, SVOC	ND	ND	ND	ND	8.8 J	1800
Phenanthrene	47	37 J	200 J	68	200	
Phenol	ND	ND	ND	ND	ND	100000
Pyrene	83 J+	95 J	250 J	98	510	2300000
Total Metals (mg/kg)						
Antimony, Total	0.61 J	ND	ND	ND	ND	5
Arsenic, Total	7	2.9 J	6.1 J	3.8	2.3	11.3 / 13.0
Barium, Total	52	56 J	46	27	36	1500
Beryllium, Total	0.61 J-	0.57	0.52	0.26	0.2	22
Cadmium, Total	0.19 J-	ND	ND	ND	ND	5.2
Calcium, Total	5300 J	12000 J	13000 B	120000 B	160000 B	---
Chromium, Total	18 B	15 B	16 B	8 B	12 B	21
Cobalt, Total	11	8.5	12	4.3	3.2	20
Copper, Total	21 J-	17 J	18	13	18	2900
Iron, Total	19000 J+	12000 J	16000 B	7600 B	6800 B	15000 / 15900
Lead, Total	76 J	89 J	68 B	50 B	90 B	107
Magnesium, Total	5400 J	8400 J	9700 B	73000 B	100000 B	325000
Manganese, Total	310 J	180 J	350	220	190	630 / 636
Mercury, Total	0.04	0.035	0.026	0.017	0.02	0.89
Nickel, Total	26	18	26	9.2	10	100
Potassium, Total	1500 J+	1100 J+	1400	560	640	---
Selenium, Total	ND	ND	ND	ND	ND	1.3
Silver, Total	ND	ND	ND	ND	ND	4.4
Sodium, Total	1700 J-	1100 J	900	630	400	---
Thallium, Total	ND	ND	ND	ND	ND	2.6
Vanadium, Total	21	15	18	9.8	7.4	550
Zinc, Total	69 J-	68 J	79	57	89	5100
TCLP Metals (mg/l)						
Arsenic, TCLP	ND	ND	ND	ND	ND	0.05
Barium, TCLP	0.26 J	0.35 J	0.35 J	0.3 J	0.44 J	2
Cadmium, TCLP	ND	0.0025 J	0.002 J	ND	ND	0.005
Chromium, TCLP	ND	ND	ND	ND	ND	0.1
Cobalt, TCLP	ND	ND	ND	ND	ND	1
Copper, TCLP	0.012 J	ND	ND	ND	ND	0.65
Iron, TCLP	ND	ND	0.21 J	ND	ND	5
Lead, TCLP	0.01	0.02	0.012	ND	ND	0.0075
Manganese, TCLP	1.2	0.15	0.13	0.12	0.15	0.15
Nickel, TCLP	ND	ND	ND	ND	ND	0.1
Selenium, TCLP	ND	ND	ND	ND	ND	0.05
Zinc, TCLP	0.083 J	ND	ND	ND	ND	5

Summary Table of ISGS Site No. 3140-44
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	A44-13(0-1)-020717	A44-14(0-1)-020817	A44-14(0-1)-020817D	A44-15(0-1)-020817	A44-20(0-1)-020817	Soil Reference Concentrations[A]
Sample Date	2/7/2017	2/8/2017	2/8/2017	2/8/2017	2/8/2017	
Location ID	A44-13	A44-14	A44-14	A44-15	A44-20	
Depth	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	
ISGS Site No.	3140-44	3140-44	3140-44	3140-44	3140-44	
Parameter						
SPLP Metals (mg/l)						
Arsenic, SPLP	0.093	0.026 J	0.032 J	0.02 J	ND	0.05
Barium, SPLP	0.71	0.42 J	0.41 J	0.3 J	0.18 J	2
Beryllium, SPLP	0.01	0.0046	0.0049	ND	ND	0.004
Cadmium, SPLP	ND	ND	ND	ND	ND	0.005
Chromium, SPLP	0.25	0.12	0.12	0.083	0.048	0.1
Cobalt, SPLP	0.077	0.026	0.028	0.021 J	ND	1
Copper, SPLP	0.34	0.11	0.12	0.076	0.044	0.65
Iron, SPLP	250	110	110	79	40	5
Lead, SPLP	0.55	0.41	0.43	0.11	0.061	0.0075
Manganese, SPLP	1.3	0.73	0.65	0.93	0.21	0.15
Mercury, SPLP	ND	ND	ND	ND	ND	0.002
Nickel, SPLP	0.3	0.11	0.13	0.076	0.042	0.1
Zinc, SPLP	0.88	0.45 J	0.45 J	0.29 J	0.15 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: A44-13(0-1)-020717
Date Collected: 02/07/17 14:53
Date Received: 02/07/17 16:56

Lab Sample ID: 500-123558-1
Matrix: Solid
Percent Solids: 82.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	9.5	ug/Kg	☼	02/08/17 09:20	02/10/17 17:00	1
Benzene	<2.2		2.2	0.56	ug/Kg	☼	02/08/17 09:20	02/10/17 17:00	1
Bromodichloromethane	<2.2		2.2	0.45	ug/Kg	☼	02/08/17 09:20	02/10/17 17:00	1
Bromoform	<2.2		2.2	0.64	ug/Kg	☼	02/08/17 09:20	02/10/17 17:00	1
Bromomethane	<5.5		5.5	2.1	ug/Kg	☼	02/08/17 09:20	02/10/17 17:00	1
Carbon disulfide	<5.5		5.5	1.1	ug/Kg	☼	02/08/17 09:20	02/10/17 17:00	1
Carbon tetrachloride	<2.2		2.2	0.64	ug/Kg	☼	02/08/17 09:20	02/10/17 17:00	1
Chlorobenzene	<2.2		2.2	0.81	ug/Kg	☼	02/08/17 09:20	02/10/17 17:00	1
Chloroethane	<5.5		5.5	1.6	ug/Kg	☼	02/08/17 09:20	02/10/17 17:00	1
Chloroform	<2.2		2.2	0.76	ug/Kg	☼	02/08/17 09:20	02/10/17 17:00	1
Chloromethane	<5.5		5.5	2.2	ug/Kg	☼	02/08/17 09:20	02/10/17 17:00	1
cis-1,2-Dichloroethene	<2.2		2.2	0.61	ug/Kg	☼	02/08/17 09:20	02/10/17 17:00	1
cis-1,3-Dichloropropene	<2.2		2.2	0.66	ug/Kg	☼	02/08/17 09:20	02/10/17 17:00	1
Dibromochloromethane	<2.2		2.2	0.72	ug/Kg	☼	02/08/17 09:20	02/10/17 17:00	1
1,1-Dichloroethane	<2.2		2.2	0.75	ug/Kg	☼	02/08/17 09:20	02/10/17 17:00	1
1,2-Dichloroethane	<5.5		5.5	1.7	ug/Kg	☼	02/08/17 09:20	02/10/17 17:00	1
1,1-Dichloroethene	<2.2		2.2	0.75	ug/Kg	☼	02/08/17 09:20	02/10/17 17:00	1
1,2-Dichloropropane	<2.2		2.2	0.57	ug/Kg	☼	02/08/17 09:20	02/10/17 17:00	1
1,3-Dichloropropene, Total	<2.2		2.2	0.77	ug/Kg	☼	02/08/17 09:20	02/10/17 17:00	1
Ethylbenzene	<2.2		2.2	1.0	ug/Kg	☼	02/08/17 09:20	02/10/17 17:00	1
2-Hexanone	<5.5		5.5	1.7	ug/Kg	☼	02/08/17 09:20	02/10/17 17:00	1
Methylene Chloride	<5.5		5.5	2.2	ug/Kg	☼	02/08/17 09:20	02/10/17 17:00	1
Methyl Ethyl Ketone	<5.5		5.5	2.4	ug/Kg	☼	02/08/17 09:20	02/10/17 17:00	1
methyl isobutyl ketone	<5.5		5.5	1.6	ug/Kg	☼	02/08/17 09:20	02/10/17 17:00	1
Methyl tert-butyl ether	<2.2		2.2	0.64	ug/Kg	☼	02/08/17 09:20	02/10/17 17:00	1
Styrene	<2.2		2.2	0.66	ug/Kg	☼	02/08/17 09:20	02/10/17 17:00	1
1,1,2,2-Tetrachloroethane	<2.2		2.2	0.70	ug/Kg	☼	02/08/17 09:20	02/10/17 17:00	1
Tetrachloroethene	<2.2		2.2	0.75	ug/Kg	☼	02/08/17 09:20	02/10/17 17:00	1
Toluene	<2.2		2.2	0.55	ug/Kg	☼	02/08/17 09:20	02/10/17 17:00	1
trans-1,2-Dichloroethene	<2.2		2.2	0.97	ug/Kg	☼	02/08/17 09:20	02/10/17 17:00	1
trans-1,3-Dichloropropene	<2.2		2.2	0.77	ug/Kg	☼	02/08/17 09:20	02/10/17 17:00	1
1,1,1-Trichloroethane	<2.2		2.2	0.74	ug/Kg	☼	02/08/17 09:20	02/10/17 17:00	1
1,1,2-Trichloroethane	<2.2		2.2	0.94	ug/Kg	☼	02/08/17 09:20	02/10/17 17:00	1
Trichloroethene	<2.2		2.2	0.74	ug/Kg	☼	02/08/17 09:20	02/10/17 17:00	1
Vinyl chloride	<2.2		2.2	0.97	ug/Kg	☼	02/08/17 09:20	02/10/17 17:00	1
Xylenes, Total	<4.4		4.4	0.70	ug/Kg	☼	02/08/17 09:20	02/10/17 17:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 120*	*02/08/17 09:20*	*02/10/17 17:00*	*1*
Dibromofluoromethane	*102*		*75 - 120*	*02/08/17 09:20*	*02/10/17 17:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*69 - 134*	*02/08/17 09:20*	*02/10/17 17:00*	*1*
Toluene-d8 (Surr)	*105*		*75 - 123*	*02/08/17 09:20*	*02/10/17 17:00*	*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	☼	02/10/17 07:09	02/14/17 01:45	1
1,2-Dichlorobenzene	<200		200	47	ug/Kg	☼	02/10/17 07:09	02/14/17 01:45	1
1,3-Dichlorobenzene	<200		200	44	ug/Kg	☼	02/10/17 07:09	02/14/17 01:45	1
1,4-Dichlorobenzene	<200		200	51	ug/Kg	☼	02/10/17 07:09	02/14/17 01:45	1
2,2'-oxybis[1-chloropropane]	<200		200	46	ug/Kg	☼	02/10/17 07:09	02/14/17 01:45	1

Client Sample ID: A44-13(0-1)-020717
Date Collected: 02/07/17 14:53
Date Received: 02/07/17 16:56

Lab Sample ID: 500-123558-1
Matrix: Solid
Percent Solids: 82.5

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	☼	02/10/17 07:09	02/14/17 01:45	1
2,4,6-Trichlorophenol	<390		390	140	ug/Kg	☼	02/10/17 07:09	02/14/17 01:45	1
2,4-Dichlorophenol	<390		390	94	ug/Kg	☼	02/10/17 07:09	02/14/17 01:45	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	02/10/17 07:09	02/14/17 01:45	1
2,4-Dinitrophenol	<790	F1	790	690	ug/Kg	☼	02/10/17 07:09	02/14/17 01:45	1
2,4-Dinitrotoluene	<200	F1	200	63	ug/Kg	☼	02/10/17 07:09	02/14/17 01:45	1
2,6-Dinitrotoluene	<200		200	77	ug/Kg	☼	02/10/17 07:09	02/14/17 01:45	1
2-Chloronaphthalene	<200		200	44	ug/Kg	☼	02/10/17 07:09	02/14/17 01:45	1
2-Chlorophenol	<200		200	67	ug/Kg	☼	02/10/17 07:09	02/14/17 01:45	1
2-Methylnaphthalene	<79		79	7.2	ug/Kg	☼	02/10/17 07:09	02/14/17 01:45	1
2-Methylphenol	<200		200	63	ug/Kg	☼	02/10/17 07:09	02/14/17 01:45	1
2-Nitroaniline	<200		200	53	ug/Kg	☼	02/10/17 07:09	02/14/17 01:45	1
2-Nitrophenol	<390	F1	390	93	ug/Kg	☼	02/10/17 07:09	02/14/17 01:45	1
3 & 4 Methylphenol	<200		200	66	ug/Kg	☼	02/10/17 07:09	02/14/17 01:45	1
3,3'-Dichlorobenzidine	<200		200	55	ug/Kg	☼	02/10/17 07:09	02/14/17 01:45	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	02/10/17 07:09	02/14/17 01:45	1
4,6-Dinitro-2-methylphenol	<790	F1	790	320	ug/Kg	☼	02/10/17 07:09	02/14/17 01:45	1
4-Bromophenyl phenyl ether	<200		200	52	ug/Kg	☼	02/10/17 07:09	02/14/17 01:45	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	02/10/17 07:09	02/14/17 01:45	1
4-Chloroaniline	<790		790	190	ug/Kg	☼	02/10/17 07:09	02/14/17 01:45	1
4-Chlorophenyl phenyl ether	<200		200	46	ug/Kg	☼	02/10/17 07:09	02/14/17 01:45	1
4-Nitroaniline	<390		390	160	ug/Kg	☼	02/10/17 07:09	02/14/17 01:45	1
4-Nitrophenol	<790	F2	790	370	ug/Kg	☼	02/10/17 07:09	02/14/17 01:45	1
Acenaphthene	<39		39	7.1	ug/Kg	☼	02/10/17 07:09	02/14/17 01:45	1
Acenaphthylene	<39		39	5.2	ug/Kg	☼	02/10/17 07:09	02/14/17 01:45	1
Anthracene	**7.0**	**J**	39	6.6	ug/Kg	☼	02/10/17 07:09	02/14/17 01:45	1
Benzo[a]anthracene	**34**	**J**	39	5.3	ug/Kg	☼	02/10/17 07:09	02/14/17 01:45	1
Benzo[a]pyrene	**32**	**J ***	39	7.6	ug/Kg	☼	02/10/17 07:09	02/14/17 01:45	1
Benzo[b]fluoranthene	**84**	*****	39	8.5	ug/Kg	☼	02/10/17 07:09	02/14/17 01:45	1
Benzo[g,h,i]perylene	<39	* F1	39	13	ug/Kg	☼	02/10/17 07:09	02/14/17 01:45	1
Benzo[k]fluoranthene	**84**	*****	39	12	ug/Kg	☼	02/10/17 07:09	02/14/17 01:45	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	☼	02/10/17 07:09	02/14/17 01:45	1
Bis(2-chloroethyl)ether	<200		200	59	ug/Kg	☼	02/10/17 07:09	02/14/17 01:45	1
Bis(2-ethylhexyl) phthalate	<200	F1	200	72	ug/Kg	☼	02/10/17 07:09	02/14/17 01:45	1
Butyl benzyl phthalate	<200	F1	200	75	ug/Kg	☼	02/10/17 07:09	02/14/17 01:45	1
Carbazole	<200		200	98	ug/Kg	☼	02/10/17 07:09	02/14/17 01:45	1
Chrysene	**41**		39	11	ug/Kg	☼	02/10/17 07:09	02/14/17 01:45	1
Dibenz(a,h)anthracene	<39	* F1	39	7.6	ug/Kg	☼	02/10/17 07:09	02/14/17 01:45	1
Dibenzofuran	<200		200	46	ug/Kg	☼	02/10/17 07:09	02/14/17 01:45	1
Diethyl phthalate	<200		200	67	ug/Kg	☼	02/10/17 07:09	02/14/17 01:45	1
Dimethyl phthalate	<200		200	51	ug/Kg	☼	02/10/17 07:09	02/14/17 01:45	1
Di-n-butyl phthalate	<200		200	60	ug/Kg	☼	02/10/17 07:09	02/14/17 01:45	1
Di-n-octyl phthalate	<200	F1	200	64	ug/Kg	☼	02/10/17 07:09	02/14/17 01:45	1
Fluoranthene	**87**		39	7.3	ug/Kg	☼	02/10/17 07:09	02/14/17 01:45	1
Fluorene	<39		39	5.5	ug/Kg	☼	02/10/17 07:09	02/14/17 01:45	1
Hexachlorobenzene	<79		79	9.1	ug/Kg	☼	02/10/17 07:09	02/14/17 01:45	1
Hexachlorobutadiene	<200		200	62	ug/Kg	☼	02/10/17 07:09	02/14/17 01:45	1
Hexachlorocyclopentadiene	<790	F1	790	230	ug/Kg	☼	02/10/17 07:09	02/14/17 01:45	1
Hexachloroethane	<200	F1	200	60	ug/Kg	☼	02/10/17 07:09	02/14/17 01:45	1

Client Sample ID: A44-13(0-1)-020717
Date Collected: 02/07/17 14:53
Date Received: 02/07/17 16:56

Lab Sample ID: 500-123558-1
Matrix: Solid
Percent Solids: 82.5

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	<39	*	39	10	ug/Kg	☼	02/10/17 07:09	02/14/17 01:45	1
Isophorone	<200		200	44	ug/Kg	☼	02/10/17 07:09	02/14/17 01:45	1
Naphthalene	<39		39	6.1	ug/Kg	☼	02/10/17 07:09	02/14/17 01:45	1
Nitrobenzene	<39		39	9.8	ug/Kg	☼	02/10/17 07:09	02/14/17 01:45	1
N-Nitrosodi-n-propylamine	<79		79	48	ug/Kg	☼	02/10/17 07:09	02/14/17 01:45	1
N-Nitrosodiphenylamine	<200		200	46	ug/Kg	☼	02/10/17 07:09	02/14/17 01:45	1
Pentachlorophenol	<790		790	630	ug/Kg	☼	02/10/17 07:09	02/14/17 01:45	1
Phenanthrene	**47**		39	5.5	ug/Kg	☼	02/10/17 07:09	02/14/17 01:45	1
Phenol	<200		200	88	ug/Kg	☼	02/10/17 07:09	02/14/17 01:45	1
Pyrene	**83**	**F1**	39	7.8	ug/Kg	☼	02/10/17 07:09	02/14/17 01:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*112*		*25 - 130*	*02/10/17 07:09*	*02/14/17 01:45*	*1*
2-Fluorobiphenyl	*90*		*42 - 115*	*02/10/17 07:09*	*02/14/17 01:45*	*1*
2-Fluorophenol	*93*		*40 - 130*	*02/10/17 07:09*	*02/14/17 01:45*	*1*
Nitrobenzene-d5	*84*		*33 - 124*	*02/10/17 07:09*	*02/14/17 01:45*	*1*
Phenol-d5	*86*		*36 - 123*	*02/10/17 07:09*	*02/14/17 01:45*	*1*
Terphenyl-d14	*133*		*25 - 150*	*02/10/17 07:09*	*02/14/17 01:45*	*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		02/13/17 08:21	02/13/17 16:00	1
Barium	**0.26**	**J**	0.50	0.050	mg/L		02/13/17 08:21	02/13/17 16:00	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/13/17 08:21	02/13/17 16:00	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/13/17 08:21	02/13/17 16:00	1
Chromium	<0.025		0.025	0.010	mg/L		02/13/17 08:21	02/13/17 16:00	1
Cobalt	<0.025		0.025	0.010	mg/L		02/13/17 08:21	02/13/17 16:00	1
Copper	**0.012**	**J**	0.025	0.010	mg/L		02/13/17 08:21	02/13/17 16:00	1
Iron	<0.40		0.40	0.20	mg/L		02/13/17 08:21	02/13/17 16:00	1
Lead	**0.010**		0.0075	0.0075	mg/L		02/13/17 08:21	02/13/17 16:00	1
Manganese	**1.2**		0.025	0.010	mg/L		02/13/17 08:21	02/13/17 16:00	1
Nickel	<0.025		0.025	0.010	mg/L		02/13/17 08:21	02/13/17 16:00	1
Selenium	<0.050		0.050	0.020	mg/L		02/13/17 08:21	02/13/17 16:00	1
Silver	<0.025		0.025	0.010	mg/L		02/13/17 08:21	02/13/17 16:00	1
Zinc	**0.083**	**J**	0.50	0.020	mg/L		02/13/17 08:21	02/13/17 16:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.093**		0.050	0.010	mg/L		02/11/17 10:11	02/13/17 14:52	1
Barium	**0.71**		0.50	0.050	mg/L		02/11/17 10:11	02/13/17 14:52	1
Beryllium	**0.010**		0.0040	0.0040	mg/L		02/11/17 10:11	02/13/17 14:52	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/11/17 10:11	02/13/17 14:52	1
Chromium	**0.25**		0.025	0.010	mg/L		02/11/17 10:11	02/13/17 14:52	1
Cobalt	**0.077**		0.025	0.010	mg/L		02/11/17 10:11	02/13/17 14:52	1
Copper	**0.34**		0.025	0.010	mg/L		02/11/17 10:11	02/13/17 14:52	1
Iron	**250**		0.40	0.20	mg/L		02/11/17 10:11	02/13/17 14:52	1
Lead	**0.55**		0.0075	0.0075	mg/L		02/11/17 10:11	02/13/17 14:52	1
Manganese	**1.3**		0.025	0.010	mg/L		02/11/17 10:11	02/13/17 14:52	1
Nickel	**0.30**		0.025	0.010	mg/L		02/11/17 10:11	02/13/17 14:52	1
Selenium	<0.050		0.050	0.020	mg/L		02/11/17 10:11	02/13/17 14:52	1

Client Sample ID: A44-13(0-1)-020717
Date Collected: 02/07/17 14:53
Date Received: 02/07/17 16:56

Lab Sample ID: 500-123558-1
Matrix: Solid
Percent Solids: 82.5

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 10:11	02/13/17 14:52	1
Zinc	**0.88**		0.50	0.020	mg/L		02/11/17 10:11	02/13/17 14:52	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.61**	**J F1**	1.1	0.23	mg/Kg	☼	02/10/17 08:30	02/11/17 03:12	1
Arsenic	**7.0**		0.55	0.26	mg/Kg	☼	02/10/17 08:30	02/11/17 03:12	1
Barium	**52**		0.55	0.10	mg/Kg	☼	02/10/17 08:30	02/11/17 03:12	1
Beryllium	**0.61**	**F1**	0.22	0.048	mg/Kg	☼	02/10/17 08:30	02/11/17 03:12	1
Cadmium	**0.19**	**F1**	0.11	0.032	mg/Kg	☼	02/10/17 08:30	02/11/17 03:12	1
Calcium	**5300**	**F2 B**	11	3.6	mg/Kg	☼	02/10/17 08:30	02/11/17 03:12	1
Chromium	**18**	**B**	0.55	0.095	mg/Kg	☼	02/10/17 08:30	02/11/17 03:12	1
Cobalt	**11**		0.28	0.063	mg/Kg	☼	02/10/17 08:30	02/11/17 03:12	1
Copper	**21**	**F1**	0.55	0.12	mg/Kg	☼	02/10/17 08:30	02/11/17 03:12	1
Iron	**19000**	**B**	11	4.3	mg/Kg	☼	02/10/17 08:30	02/11/17 03:12	1
Lead	**76**	**F2 B**	0.28	0.14	mg/Kg	☼	02/10/17 08:30	02/11/17 03:12	1
Magnesium	**5400**	**F2 B**	5.5	2.3	mg/Kg	☼	02/10/17 08:30	02/11/17 03:12	1
Manganese	**310**	**B**	0.55	0.11	mg/Kg	☼	02/10/17 08:30	02/11/17 03:12	1
Nickel	**26**		0.55	0.15	mg/Kg	☼	02/10/17 08:30	02/11/17 03:12	1
Potassium	**1500**	**F1 B**	28	4.5	mg/Kg	☼	02/10/17 08:30	02/11/17 03:12	1
Selenium	<0.55	F1	0.55	0.27	mg/Kg	☼	02/10/17 08:30	02/11/17 03:12	1
Silver	<0.28	F1	0.28	0.065	mg/Kg	☼	02/10/17 08:30	02/11/17 03:12	1
Sodium	**1700**	**F1**	55	7.3	mg/Kg	☼	02/10/17 08:30	02/11/17 03:12	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	02/10/17 08:30	02/11/17 03:12	1
Vanadium	**21**		0.28	0.081	mg/Kg	☼	02/10/17 08:30	02/11/17 03:12	1
Zinc	**69**	**F1**	1.1	0.35	mg/Kg	☼	02/10/17 08:30	02/11/17 03:12	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 11:14	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		02/13/17 13:04	02/14/17 09:01	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**40**		19	10	ug/Kg	☼	02/09/17 16:15	02/10/17 09:55	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 11:11	1

Definitions/Glossary

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

TestAmerica Job ID: 500-123558-1

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

Preservative
Parameter

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					

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

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. Balasubramanian
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
	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
	Weston	2/7/17	1656		TALE	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]	TAMU	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 (600 (1209)

2/15/2017

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: 500-123628-1
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 5:14:36 PM

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

Client Sample ID: A44-14(0-1)-020817
Date Collected: 02/08/17 08:55
Date Received: 02/08/17 17:00

Lab Sample ID: 500-123628-1
Matrix: Solid
Percent Solids: 85.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<19		19	8.3	ug/Kg	☼	02/09/17 08:50	02/10/17 13:14	1
Benzene	<1.9		1.9	0.49	ug/Kg	☼	02/09/17 08:50	02/10/17 13:14	1
Bromodichloromethane	<1.9		1.9	0.39	ug/Kg	☼	02/09/17 08:50	02/10/17 13:14	1
Bromoform	<1.9		1.9	0.56	ug/Kg	☼	02/09/17 08:50	02/10/17 13:14	1
Bromomethane	<4.8		4.8	1.8	ug/Kg	☼	02/09/17 08:50	02/10/17 13:14	1
Carbon disulfide	<4.8		4.8	1.0	ug/Kg	☼	02/09/17 08:50	02/10/17 13:14	1
Carbon tetrachloride	<1.9		1.9	0.56	ug/Kg	☼	02/09/17 08:50	02/10/17 13:14	1
Chlorobenzene	<1.9		1.9	0.71	ug/Kg	☼	02/09/17 08:50	02/10/17 13:14	1
Chloroethane	<4.8		4.8	1.4	ug/Kg	☼	02/09/17 08:50	02/10/17 13:14	1
Chloroform	<1.9		1.9	0.66	ug/Kg	☼	02/09/17 08:50	02/10/17 13:14	1
Chloromethane	<4.8		4.8	1.9	ug/Kg	☼	02/09/17 08:50	02/10/17 13:14	1
cis-1,2-Dichloroethene	<1.9		1.9	0.54	ug/Kg	☼	02/09/17 08:50	02/10/17 13:14	1
cis-1,3-Dichloropropene	<1.9		1.9	0.58	ug/Kg	☼	02/09/17 08:50	02/10/17 13:14	1
Dibromochloromethane	<1.9		1.9	0.63	ug/Kg	☼	02/09/17 08:50	02/10/17 13:14	1
1,1-Dichloroethane	<1.9		1.9	0.66	ug/Kg	☼	02/09/17 08:50	02/10/17 13:14	1
1,2-Dichloroethane	<4.8		4.8	1.5	ug/Kg	☼	02/09/17 08:50	02/10/17 13:14	1
1,1-Dichloroethene	<1.9		1.9	0.66	ug/Kg	☼	02/09/17 08:50	02/10/17 13:14	1
1,2-Dichloropropane	<1.9		1.9	0.49	ug/Kg	☼	02/09/17 08:50	02/10/17 13:14	1
1,3-Dichloropropene, Total	<1.9		1.9	0.67	ug/Kg	☼	02/09/17 08:50	02/10/17 13:14	1
Ethylbenzene	<1.9		1.9	0.92	ug/Kg	☼	02/09/17 08:50	02/10/17 13:14	1
2-Hexanone	<4.8		4.8	1.5	ug/Kg	☼	02/09/17 08:50	02/10/17 13:14	1
Methylene Chloride	<4.8		4.8	1.9	ug/Kg	☼	02/09/17 08:50	02/10/17 13:14	1
Methyl Ethyl Ketone	<4.8		4.8	2.1	ug/Kg	☼	02/09/17 08:50	02/10/17 13:14	1
methyl isobutyl ketone	<4.8		4.8	1.4	ug/Kg	☼	02/09/17 08:50	02/10/17 13:14	1
Methyl tert-butyl ether	<1.9		1.9	0.56	ug/Kg	☼	02/09/17 08:50	02/10/17 13:14	1
Styrene	<1.9		1.9	0.58	ug/Kg	☼	02/09/17 08:50	02/10/17 13:14	1
1,1,2,2-Tetrachloroethane	<1.9		1.9	0.61	ug/Kg	☼	02/09/17 08:50	02/10/17 13:14	1
Tetrachloroethene	<1.9		1.9	0.65	ug/Kg	☼	02/09/17 08:50	02/10/17 13:14	1
Toluene	<1.9		1.9	0.48	ug/Kg	☼	02/09/17 08:50	02/10/17 13:14	1
trans-1,2-Dichloroethene	<1.9		1.9	0.85	ug/Kg	☼	02/09/17 08:50	02/10/17 13:14	1
trans-1,3-Dichloropropene	<1.9		1.9	0.67	ug/Kg	☼	02/09/17 08:50	02/10/17 13:14	1
1,1,1-Trichloroethane	<1.9		1.9	0.64	ug/Kg	☼	02/09/17 08:50	02/10/17 13:14	1
1,1,2-Trichloroethane	<1.9		1.9	0.82	ug/Kg	☼	02/09/17 08:50	02/10/17 13:14	1
Trichloroethene	<1.9		1.9	0.65	ug/Kg	☼	02/09/17 08:50	02/10/17 13:14	1
Vinyl chloride	<1.9		1.9	0.85	ug/Kg	☼	02/09/17 08:50	02/10/17 13:14	1
Xylenes, Total	<3.8		3.8	0.61	ug/Kg	☼	02/09/17 08:50	02/10/17 13:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 120*	*02/09/17 08:50*	*02/10/17 13:14*	*1*
Dibromofluoromethane	*95*		*75 - 120*	*02/09/17 08:50*	*02/10/17 13:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*69 - 134*	*02/09/17 08:50*	*02/10/17 13:14*	*1*
Toluene-d8 (Surr)	*109*		*75 - 123*	*02/09/17 08:50*	*02/10/17 13:14*	*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 17:49	02/15/17 00:39	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	02/10/17 17:49	02/15/17 00:39	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	02/10/17 17:49	02/15/17 00:39	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	02/10/17 17:49	02/15/17 00:39	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	02/10/17 17:49	02/15/17 00:39	1

Client Sample ID: A44-14(0-1)-020817
Date Collected: 02/08/17 08:55
Date Received: 02/08/17 17:00

Lab Sample ID: 500-123628-1
Matrix: Solid
Percent Solids: 85.8

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 17:49	02/15/17 00:39	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	02/10/17 17:49	02/15/17 00:39	1
2,4-Dichlorophenol	<370		370	88	ug/Kg	☼	02/10/17 17:49	02/15/17 00:39	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	02/10/17 17:49	02/15/17 00:39	1
2,4-Dinitrophenol	<750		750	660	ug/Kg	☼	02/10/17 17:49	02/15/17 00:39	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	02/10/17 17:49	02/15/17 00:39	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	02/10/17 17:49	02/15/17 00:39	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	02/10/17 17:49	02/15/17 00:39	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	02/10/17 17:49	02/15/17 00:39	1
2-Methylnaphthalene	<75		75	6.9	ug/Kg	☼	02/10/17 17:49	02/15/17 00:39	1
2-Methylphenol	<190		190	60	ug/Kg	☼	02/10/17 17:49	02/15/17 00:39	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	02/10/17 17:49	02/15/17 00:39	1
2-Nitrophenol	<370		370	88	ug/Kg	☼	02/10/17 17:49	02/15/17 00:39	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	02/10/17 17:49	02/15/17 00:39	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	02/10/17 17:49	02/15/17 00:39	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	02/10/17 17:49	02/15/17 00:39	1
4,6-Dinitro-2-methylphenol	<750		750	300	ug/Kg	☼	02/10/17 17:49	02/15/17 00:39	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	02/10/17 17:49	02/15/17 00:39	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	02/10/17 17:49	02/15/17 00:39	1
4-Chloroaniline	<750		750	170	ug/Kg	☼	02/10/17 17:49	02/15/17 00:39	1
4-Chlorophenyl phenyl ether	<190		190	43	ug/Kg	☼	02/10/17 17:49	02/15/17 00:39	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	02/10/17 17:49	02/15/17 00:39	1
4-Nitrophenol	<750		750	350	ug/Kg	☼	02/10/17 17:49	02/15/17 00:39	1
Acenaphthene	<37		37	6.7	ug/Kg	☼	02/10/17 17:49	02/15/17 00:39	1
Acenaphthylene	**37**		37	4.9	ug/Kg	☼	02/10/17 17:49	02/15/17 00:39	1
Anthracene	**12**	**J**	37	6.2	ug/Kg	☼	02/10/17 17:49	02/15/17 00:39	1
Benzo[a]anthracene	**74**		37	5.0	ug/Kg	☼	02/10/17 17:49	02/15/17 00:39	1
Benzo[a]pyrene	**130**		37	7.2	ug/Kg	☼	02/10/17 17:49	02/15/17 00:39	1
Benzo[b]fluoranthene	**200**		37	8.0	ug/Kg	☼	02/10/17 17:49	02/15/17 00:39	1
Benzo[g,h,i]perylene	**64**		37	12	ug/Kg	☼	02/10/17 17:49	02/15/17 00:39	1
Benzo[k]fluoranthene	**89**		37	11	ug/Kg	☼	02/10/17 17:49	02/15/17 00:39	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	02/10/17 17:49	02/15/17 00:39	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	02/10/17 17:49	02/15/17 00:39	1
Bis(2-ethylhexyl) phthalate	<190		190	68	ug/Kg	☼	02/10/17 17:49	02/15/17 00:39	1
Butyl benzyl phthalate	<190		190	71	ug/Kg	☼	02/10/17 17:49	02/15/17 00:39	1
Carbazole	<190		190	93	ug/Kg	☼	02/10/17 17:49	02/15/17 00:39	1
Chrysene	**84**		37	10	ug/Kg	☼	02/10/17 17:49	02/15/17 00:39	1
Dibenz(a,h)anthracene	**16**	**J**	37	7.2	ug/Kg	☼	02/10/17 17:49	02/15/17 00:39	1
Dibenzofuran	<190		190	44	ug/Kg	☼	02/10/17 17:49	02/15/17 00:39	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	02/10/17 17:49	02/15/17 00:39	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	02/10/17 17:49	02/15/17 00:39	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	02/10/17 17:49	02/15/17 00:39	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	02/10/17 17:49	02/15/17 00:39	1
Fluoranthene	**100**		37	6.9	ug/Kg	☼	02/10/17 17:49	02/15/17 00:39	1
Fluorene	<37		37	5.2	ug/Kg	☼	02/10/17 17:49	02/15/17 00:39	1
Hexachlorobenzene	<75		75	8.6	ug/Kg	☼	02/10/17 17:49	02/15/17 00:39	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	02/10/17 17:49	02/15/17 00:39	1
Hexachlorocyclopentadiene	<750		750	210	ug/Kg	☼	02/10/17 17:49	02/15/17 00:39	1
Hexachloroethane	<190		190	57	ug/Kg	☼	02/10/17 17:49	02/15/17 00:39	1

Client Sample ID: A44-14(0-1)-020817
Date Collected: 02/08/17 08:55
Date Received: 02/08/17 17:00

Lab Sample ID: 500-123628-1
Matrix: Solid
Percent Solids: 85.8

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	**57**		37	9.7	ug/Kg	☼	02/10/17 17:49	02/15/17 00:39	1
Isophorone	<190		190	42	ug/Kg	☼	02/10/17 17:49	02/15/17 00:39	1
Naphthalene	<37		37	5.7	ug/Kg	☼	02/10/17 17:49	02/15/17 00:39	1
Nitrobenzene	<37		37	9.3	ug/Kg	☼	02/10/17 17:49	02/15/17 00:39	1
N-Nitrosodi-n-propylamine	<75		75	46	ug/Kg	☼	02/10/17 17:49	02/15/17 00:39	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	02/10/17 17:49	02/15/17 00:39	1
Pentachlorophenol	<750		750	600	ug/Kg	☼	02/10/17 17:49	02/15/17 00:39	1
Phenanthrene	**37**		37	5.2	ug/Kg	☼	02/10/17 17:49	02/15/17 00:39	1
Phenol	<190		190	83	ug/Kg	☼	02/10/17 17:49	02/15/17 00:39	1
Pyrene	**95**		37	7.4	ug/Kg	☼	02/10/17 17:49	02/15/17 00:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*82*		*25 - 130*	*02/10/17 17:49*	*02/15/17 00:39*	*1*
2-Fluorobiphenyl	*79*		*42 - 115*	*02/10/17 17:49*	*02/15/17 00:39*	*1*
2-Fluorophenol	*81*		*40 - 130*	*02/10/17 17:49*	*02/15/17 00:39*	*1*
Nitrobenzene-d5	*72*		*33 - 124*	*02/10/17 17:49*	*02/15/17 00:39*	*1*
Phenol-d5	*79*		*36 - 123*	*02/10/17 17:49*	*02/15/17 00:39*	*1*
Terphenyl-d14	*91*		*25 - 150*	*02/10/17 17:49*	*02/15/17 00:39*	*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 08:19	02/13/17 18:27	1
Barium	**0.35**	**J**	0.50	0.050	mg/L		02/13/17 08:19	02/13/17 18:27	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/13/17 08:19	02/13/17 18:27	1
Cadmium	**0.0025**	**J**	0.0050	0.0020	mg/L		02/13/17 08:19	02/13/17 18:27	1
Chromium	<0.025		0.025	0.010	mg/L		02/13/17 08:19	02/13/17 18:27	1
Cobalt	<0.025		0.025	0.010	mg/L		02/13/17 08:19	02/13/17 18:27	1
Copper	**0.043**	**B**	0.040	0.010	mg/L		02/13/17 08:19	02/13/17 18:27	1
Iron	<0.40		0.40	0.20	mg/L		02/13/17 08:19	02/13/17 18:27	1
Lead	**0.020**		0.0075	0.0075	mg/L		02/13/17 08:19	02/13/17 18:27	1
Manganese	**0.15**		0.025	0.010	mg/L		02/13/17 08:19	02/13/17 18:27	1
Nickel	<0.025		0.025	0.010	mg/L		02/13/17 08:19	02/13/17 18:27	1
Selenium	<0.050		0.050	0.020	mg/L		02/13/17 08:19	02/13/17 18:27	1
Silver	<0.025		0.025	0.010	mg/L		02/13/17 08:19	02/13/17 18:27	1
Zinc	**0.15**	**J B**	0.50	0.020	mg/L		02/13/17 08:19	02/13/17 18:27	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		02/13/17 08:20	02/13/17 16:06	1
Barium	**0.42**	**J**	0.50	0.050	mg/L		02/13/17 08:20	02/13/17 16:06	1
Beryllium	**0.0046**		0.0040	0.0040	mg/L		02/13/17 08:20	02/13/17 16:06	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/13/17 08:20	02/13/17 16:06	1
Chromium	**0.12**		0.025	0.010	mg/L		02/13/17 08:20	02/13/17 16:06	1
Cobalt	**0.026**		0.025	0.010	mg/L		02/13/17 08:20	02/13/17 16:06	1
Copper	**0.11**		0.025	0.010	mg/L		02/13/17 08:20	02/13/17 16:06	1
Iron	**110**		0.40	0.20	mg/L		02/13/17 08:20	02/13/17 16:06	1
Lead	**0.41**		0.038	0.038	mg/L		02/13/17 08:20	02/14/17 12:33	5
Manganese	**0.73**		0.025	0.010	mg/L		02/13/17 08:20	02/13/17 16:06	1
Nickel	**0.11**		0.025	0.010	mg/L		02/13/17 08:20	02/13/17 16:06	1
Selenium	<0.050		0.050	0.020	mg/L		02/13/17 08:20	02/13/17 16:06	1

Client Sample ID: A44-14(0-1)-020817
Date Collected: 02/08/17 08:55
Date Received: 02/08/17 17:00

Lab Sample ID: 500-123628-1
Matrix: Solid
Percent Solids: 85.8

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		02/13/17 08:20	02/13/17 16:06	1
Zinc	**0.45**	**J**	0.50	0.020	mg/L		02/13/17 08:20	02/13/17 16:06	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.22**	**J B F1**	0.92	0.19	mg/Kg	☼	02/10/17 08:30	02/12/17 02:24	1
Arsenic	**2.9**	**F1 F2**	0.46	0.21	mg/Kg	☼	02/10/17 08:30	02/12/17 02:24	1
Barium	**56**		0.46	0.084	mg/Kg	☼	02/10/17 08:30	02/12/17 02:24	1
Beryllium	**0.57**		0.18	0.040	mg/Kg	☼	02/10/17 08:30	02/12/17 02:24	1
Cadmium	**0.31**	**B**	0.092	0.027	mg/Kg	☼	02/10/17 08:30	02/12/17 02:24	1
Calcium	**12000**	**B F2**	9.2	3.0	mg/Kg	☼	02/10/17 08:30	02/12/17 02:24	1
Chromium	**15**	**B**	0.46	0.079	mg/Kg	☼	02/10/17 08:30	02/12/17 02:24	1
Cobalt	**8.5**		0.23	0.052	mg/Kg	☼	02/10/17 08:30	02/12/17 02:24	1
Copper	**17**	**F1**	0.46	0.10	mg/Kg	☼	02/10/17 08:30	02/12/17 02:24	1
Iron	**12000**	**B F2**	9.2	3.6	mg/Kg	☼	02/10/17 08:30	02/12/17 02:24	1
Lead	**89**	**B F2**	0.23	0.11	mg/Kg	☼	02/10/17 08:30	02/12/17 02:24	1
Magnesium	**8400**	**B F2**	4.6	1.9	mg/Kg	☼	02/10/17 08:30	02/12/17 02:24	1
Manganese	**180**	**F2**	0.46	0.091	mg/Kg	☼	02/10/17 08:30	02/12/17 02:24	1
Nickel	**18**		0.46	0.13	mg/Kg	☼	02/10/17 08:30	02/12/17 02:24	1
Potassium	**1100**	**F1**	23	3.8	mg/Kg	☼	02/10/17 08:30	02/12/17 02:24	1
Selenium	**0.32**	**J B**	0.46	0.23	mg/Kg	☼	02/10/17 08:30	02/12/17 02:24	1
Silver	<0.23		0.23	0.054	mg/Kg	☼	02/10/17 08:30	02/12/17 02:24	1
Sodium	**1100**	**F1**	46	6.1	mg/Kg	☼	02/10/17 08:30	02/12/17 02:24	1
Thallium	<0.46		0.46	0.23	mg/Kg	☼	02/10/17 08:30	02/12/17 02:24	1
Vanadium	**15**		0.23	0.067	mg/Kg	☼	02/10/17 08:30	02/12/17 02:24	1
Zinc	**68**	**F1 F2**	0.92	0.29	mg/Kg	☼	02/10/17 08:30	02/12/17 02:24	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 11:58	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		02/13/17 11:45	02/14/17 09:43	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**35**		18	9.6	ug/Kg	☼	02/09/17 16:15	02/10/17 10:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.4**		0.2	0.2	SU			02/13/17 10:20	1

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

TestAmerica Job ID: 500-123628-1

Client Sample ID: A44-14(0-1)-020817D
Date Collected: 02/08/17 08:55
Date Received: 02/08/17 17:00

Lab Sample ID: 500-123628-2
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	<16		16	6.9	ug/Kg	☼	02/09/17 08:50	02/10/17 13:39	1
Benzene	<1.6		1.6	0.40	ug/Kg	☼	02/09/17 08:50	02/10/17 13:39	1
Bromodichloromethane	<1.6		1.6	0.32	ug/Kg	☼	02/09/17 08:50	02/10/17 13:39	1
Bromoform	<1.6		1.6	0.46	ug/Kg	☼	02/09/17 08:50	02/10/17 13:39	1
Bromomethane	<4.0		4.0	1.5	ug/Kg	☼	02/09/17 08:50	02/10/17 13:39	1
Carbon disulfide	<4.0		4.0	0.83	ug/Kg	☼	02/09/17 08:50	02/10/17 13:39	1
Carbon tetrachloride	<1.6		1.6	0.46	ug/Kg	☼	02/09/17 08:50	02/10/17 13:39	1
Chlorobenzene	<1.6		1.6	0.59	ug/Kg	☼	02/09/17 08:50	02/10/17 13:39	1
Chloroethane	<4.0		4.0	1.2	ug/Kg	☼	02/09/17 08:50	02/10/17 13:39	1
Chloroform	<1.6		1.6	0.55	ug/Kg	☼	02/09/17 08:50	02/10/17 13:39	1
Chloromethane	<4.0		4.0	1.6	ug/Kg	☼	02/09/17 08:50	02/10/17 13:39	1
cis-1,2-Dichloroethene	<1.6		1.6	0.44	ug/Kg	☼	02/09/17 08:50	02/10/17 13:39	1
cis-1,3-Dichloropropene	<1.6		1.6	0.48	ug/Kg	☼	02/09/17 08:50	02/10/17 13:39	1
Dibromochloromethane	<1.6		1.6	0.52	ug/Kg	☼	02/09/17 08:50	02/10/17 13:39	1
1,1-Dichloroethane	<1.6		1.6	0.54	ug/Kg	☼	02/09/17 08:50	02/10/17 13:39	1
1,2-Dichloroethane	<4.0		4.0	1.2	ug/Kg	☼	02/09/17 08:50	02/10/17 13:39	1
1,1-Dichloroethene	<1.6		1.6	0.55	ug/Kg	☼	02/09/17 08:50	02/10/17 13:39	1
1,2-Dichloropropane	<1.6		1.6	0.41	ug/Kg	☼	02/09/17 08:50	02/10/17 13:39	1
1,3-Dichloropropene, Total	<1.6		1.6	0.56	ug/Kg	☼	02/09/17 08:50	02/10/17 13:39	1
Ethylbenzene	<1.6		1.6	0.76	ug/Kg	☼	02/09/17 08:50	02/10/17 13:39	1
2-Hexanone	<4.0		4.0	1.2	ug/Kg	☼	02/09/17 08:50	02/10/17 13:39	1
Methylene Chloride	<4.0		4.0	1.6	ug/Kg	☼	02/09/17 08:50	02/10/17 13:39	1
Methyl Ethyl Ketone	<4.0		4.0	1.8	ug/Kg	☼	02/09/17 08:50	02/10/17 13:39	1
methyl isobutyl ketone	<4.0		4.0	1.2	ug/Kg	☼	02/09/17 08:50	02/10/17 13:39	1
Methyl tert-butyl ether	<1.6		1.6	0.47	ug/Kg	☼	02/09/17 08:50	02/10/17 13:39	1
Styrene	<1.6		1.6	0.48	ug/Kg	☼	02/09/17 08:50	02/10/17 13:39	1
1,1,2,2-Tetrachloroethane	<1.6		1.6	0.51	ug/Kg	☼	02/09/17 08:50	02/10/17 13:39	1
Tetrachloroethene	<1.6		1.6	0.54	ug/Kg	☼	02/09/17 08:50	02/10/17 13:39	1
Toluene	<1.6		1.6	0.40	ug/Kg	☼	02/09/17 08:50	02/10/17 13:39	1
trans-1,2-Dichloroethene	<1.6		1.6	0.70	ug/Kg	☼	02/09/17 08:50	02/10/17 13:39	1
trans-1,3-Dichloropropene	<1.6		1.6	0.56	ug/Kg	☼	02/09/17 08:50	02/10/17 13:39	1
1,1,1-Trichloroethane	<1.6		1.6	0.53	ug/Kg	☼	02/09/17 08:50	02/10/17 13:39	1
1,1,2-Trichloroethane	<1.6		1.6	0.68	ug/Kg	☼	02/09/17 08:50	02/10/17 13:39	1
Trichloroethene	<1.6		1.6	0.54	ug/Kg	☼	02/09/17 08:50	02/10/17 13:39	1
Vinyl chloride	<1.6		1.6	0.70	ug/Kg	☼	02/09/17 08:50	02/10/17 13:39	1
Xylenes, Total	<3.2		3.2	0.51	ug/Kg	☼	02/09/17 08:50	02/10/17 13:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 120*	*02/09/17 08:50*	*02/10/17 13:39*	*1*
Dibromofluoromethane	*95*		*75 - 120*	*02/09/17 08:50*	*02/10/17 13:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*69 - 134*	*02/09/17 08:50*	*02/10/17 13:39*	*1*
Toluene-d8 (Surr)	*106*		*75 - 123*	*02/09/17 08:50*	*02/10/17 13:39*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<180		180	39	ug/Kg	☼	02/10/17 17:49	02/15/17 01:06	1
1,2-Dichlorobenzene	<180		180	43	ug/Kg	☼	02/10/17 17:49	02/15/17 01:06	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	02/10/17 17:49	02/15/17 01:06	1
1,4-Dichlorobenzene	<180		180	46	ug/Kg	☼	02/10/17 17:49	02/15/17 01:06	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	02/10/17 17:49	02/15/17 01:06	1

Client Sample ID: A44-14(0-1)-020817D
Date Collected: 02/08/17 08:55
Date Received: 02/08/17 17:00

Lab Sample ID: 500-123628-2
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	☼	02/10/17 17:49	02/15/17 01:06	1
2,4,6-Trichlorophenol	<360		360	120	ug/Kg	☼	02/10/17 17:49	02/15/17 01:06	1
2,4-Dichlorophenol	<360		360	86	ug/Kg	☼	02/10/17 17:49	02/15/17 01:06	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	02/10/17 17:49	02/15/17 01:06	1
2,4-Dinitrophenol	<730		730	640	ug/Kg	☼	02/10/17 17:49	02/15/17 01:06	1
2,4-Dinitrotoluene	<180		180	58	ug/Kg	☼	02/10/17 17:49	02/15/17 01:06	1
2,6-Dinitrotoluene	<180		180	71	ug/Kg	☼	02/10/17 17:49	02/15/17 01:06	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	02/10/17 17:49	02/15/17 01:06	1
2-Chlorophenol	<180		180	62	ug/Kg	☼	02/10/17 17:49	02/15/17 01:06	1
2-Methylnaphthalene	<73		73	6.7	ug/Kg	☼	02/10/17 17:49	02/15/17 01:06	1
2-Methylphenol	<180		180	58	ug/Kg	☼	02/10/17 17:49	02/15/17 01:06	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	02/10/17 17:49	02/15/17 01:06	1
2-Nitrophenol	<360		360	86	ug/Kg	☼	02/10/17 17:49	02/15/17 01:06	1
3 & 4 Methylphenol	<180		180	60	ug/Kg	☼	02/10/17 17:49	02/15/17 01:06	1
3,3'-Dichlorobenzidine	<180		180	51	ug/Kg	☼	02/10/17 17:49	02/15/17 01:06	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	02/10/17 17:49	02/15/17 01:06	1
4,6-Dinitro-2-methylphenol	<730		730	290	ug/Kg	☼	02/10/17 17:49	02/15/17 01:06	1
4-Bromophenyl phenyl ether	<180		180	48	ug/Kg	☼	02/10/17 17:49	02/15/17 01:06	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	02/10/17 17:49	02/15/17 01:06	1
4-Chloroaniline	<730		730	170	ug/Kg	☼	02/10/17 17:49	02/15/17 01:06	1
4-Chlorophenyl phenyl ether	<180		180	42	ug/Kg	☼	02/10/17 17:49	02/15/17 01:06	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	02/10/17 17:49	02/15/17 01:06	1
4-Nitrophenol	<730		730	340	ug/Kg	☼	02/10/17 17:49	02/15/17 01:06	1
Acenaphthene	**22**	**J**	36	6.5	ug/Kg	☼	02/10/17 17:49	02/15/17 01:06	1
Acenaphthylene	<36		36	4.8	ug/Kg	☼	02/10/17 17:49	02/15/17 01:06	1
Anthracene	**44**		36	6.0	ug/Kg	☼	02/10/17 17:49	02/15/17 01:06	1
Benzo[a]anthracene	**120**		36	4.9	ug/Kg	☼	02/10/17 17:49	02/15/17 01:06	1
Benzo[a]pyrene	**110**		36	7.0	ug/Kg	☼	02/10/17 17:49	02/15/17 01:06	1
Benzo[b]fluoranthene	**170**		36	7.8	ug/Kg	☼	02/10/17 17:49	02/15/17 01:06	1
Benzo[g,h,i]perylene	**39**		36	12	ug/Kg	☼	02/10/17 17:49	02/15/17 01:06	1
Benzo[k]fluoranthene	**79**		36	11	ug/Kg	☼	02/10/17 17:49	02/15/17 01:06	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	02/10/17 17:49	02/15/17 01:06	1
Bis(2-chloroethyl)ether	<180		180	54	ug/Kg	☼	02/10/17 17:49	02/15/17 01:06	1
Bis(2-ethylhexyl) phthalate	**110**	**J**	180	66	ug/Kg	☼	02/10/17 17:49	02/15/17 01:06	1
Butyl benzyl phthalate	<180		180	69	ug/Kg	☼	02/10/17 17:49	02/15/17 01:06	1
Carbazole	<180		180	90	ug/Kg	☼	02/10/17 17:49	02/15/17 01:06	1
Chrysene	**120**		36	9.9	ug/Kg	☼	02/10/17 17:49	02/15/17 01:06	1
Dibenz(a,h)anthracene	<36		36	7.0	ug/Kg	☼	02/10/17 17:49	02/15/17 01:06	1
Dibenzofuran	<180		180	42	ug/Kg	☼	02/10/17 17:49	02/15/17 01:06	1
Diethyl phthalate	<180		180	61	ug/Kg	☼	02/10/17 17:49	02/15/17 01:06	1
Dimethyl phthalate	<180		180	47	ug/Kg	☼	02/10/17 17:49	02/15/17 01:06	1
Di-n-butyl phthalate	<180		180	55	ug/Kg	☼	02/10/17 17:49	02/15/17 01:06	1
Di-n-octyl phthalate	<180		180	59	ug/Kg	☼	02/10/17 17:49	02/15/17 01:06	1
Fluoranthene	**310**		36	6.7	ug/Kg	☼	02/10/17 17:49	02/15/17 01:06	1
Fluorene	**21**	**J**	36	5.1	ug/Kg	☼	02/10/17 17:49	02/15/17 01:06	1
Hexachlorobenzene	<73		73	8.4	ug/Kg	☼	02/10/17 17:49	02/15/17 01:06	1
Hexachlorobutadiene	<180		180	57	ug/Kg	☼	02/10/17 17:49	02/15/17 01:06	1
Hexachlorocyclopentadiene	<730		730	210	ug/Kg	☼	02/10/17 17:49	02/15/17 01:06	1
Hexachloroethane	<180		180	55	ug/Kg	☼	02/10/17 17:49	02/15/17 01:06	1

Client Sample ID: A44-14(0-1)-020817D
Date Collected: 02/08/17 08:55
Date Received: 02/08/17 17:00

Lab Sample ID: 500-123628-2
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	**32**	**J**	36	9.4	ug/Kg	☼	02/10/17 17:49	02/15/17 01:06	1
Isophorone	<180		180	41	ug/Kg	☼	02/10/17 17:49	02/15/17 01:06	1
Naphthalene	<36		36	5.6	ug/Kg	☼	02/10/17 17:49	02/15/17 01:06	1
Nitrobenzene	<36		36	9.0	ug/Kg	☼	02/10/17 17:49	02/15/17 01:06	1
N-Nitrosodi-n-propylamine	<73		73	44	ug/Kg	☼	02/10/17 17:49	02/15/17 01:06	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	02/10/17 17:49	02/15/17 01:06	1
Pentachlorophenol	<730		730	580	ug/Kg	☼	02/10/17 17:49	02/15/17 01:06	1
Phenanthrene	**200**		36	5.0	ug/Kg	☼	02/10/17 17:49	02/15/17 01:06	1
Phenol	<180		180	80	ug/Kg	☼	02/10/17 17:49	02/15/17 01:06	1
Pyrene	**250**		36	7.2	ug/Kg	☼	02/10/17 17:49	02/15/17 01:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*89*		*25 - 130*	*02/10/17 17:49*	*02/15/17 01:06*	*1*
2-Fluorobiphenyl	*79*		*42 - 115*	*02/10/17 17:49*	*02/15/17 01:06*	*1*
2-Fluorophenol	*82*		*40 - 130*	*02/10/17 17:49*	*02/15/17 01:06*	*1*
Nitrobenzene-d5	*75*		*33 - 124*	*02/10/17 17:49*	*02/15/17 01:06*	*1*
Phenol-d5	*80*		*36 - 123*	*02/10/17 17:49*	*02/15/17 01:06*	*1*
Terphenyl-d14	*93*		*25 - 150*	*02/10/17 17:49*	*02/15/17 01:06*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/13/17 08:19	02/13/17 18:56	1
Barium	**0.35**	**J**	0.50	0.050	mg/L		02/13/17 08:19	02/13/17 18:56	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/13/17 08:19	02/13/17 18:56	1
Cadmium	**0.0020**	**J**	0.0050	0.0020	mg/L		02/13/17 08:19	02/13/17 18:56	1
Chromium	<0.025		0.025	0.010	mg/L		02/13/17 08:19	02/13/17 18:56	1
Cobalt	<0.025		0.025	0.010	mg/L		02/13/17 08:19	02/13/17 18:56	1
Copper	<0.040		0.040	0.010	mg/L		02/13/17 08:19	02/13/17 18:56	1
Iron	**0.21**	**J**	0.40	0.20	mg/L		02/13/17 08:19	02/13/17 18:56	1
Lead	**0.012**		0.0075	0.0075	mg/L		02/13/17 08:19	02/13/17 18:56	1
Manganese	**0.13**		0.025	0.010	mg/L		02/13/17 08:19	02/13/17 18:56	1
Nickel	<0.025		0.025	0.010	mg/L		02/13/17 08:19	02/13/17 18:56	1
Selenium	<0.050		0.050	0.020	mg/L		02/13/17 08:19	02/13/17 18:56	1
Silver	<0.025		0.025	0.010	mg/L		02/13/17 08:19	02/13/17 18:56	1
Zinc	**0.11**	**J B**	0.50	0.020	mg/L		02/13/17 08:19	02/13/17 18:56	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		02/13/17 08:20	02/13/17 16:10	1
Barium	**0.41**	**J**	0.50	0.050	mg/L		02/13/17 08:20	02/13/17 16:10	1
Beryllium	**0.0049**		0.0040	0.0040	mg/L		02/13/17 08:20	02/13/17 16:10	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/13/17 08:20	02/13/17 16:10	1
Chromium	**0.12**		0.025	0.010	mg/L		02/13/17 08:20	02/13/17 16:10	1
Cobalt	**0.028**		0.025	0.010	mg/L		02/13/17 08:20	02/13/17 16:10	1
Copper	**0.12**		0.025	0.010	mg/L		02/13/17 08:20	02/13/17 16:10	1
Iron	**110**		0.40	0.20	mg/L		02/13/17 08:20	02/13/17 16:10	1
Lead	**0.43**		0.038	0.038	mg/L		02/13/17 08:20	02/14/17 12:36	5
Manganese	**0.65**		0.025	0.010	mg/L		02/13/17 08:20	02/13/17 16:10	1
Nickel	**0.13**		0.025	0.010	mg/L		02/13/17 08:20	02/13/17 16:10	1
Selenium	<0.050		0.050	0.020	mg/L		02/13/17 08:20	02/13/17 16:10	1

Client Sample ID: A44-14(0-1)-020817D
Date Collected: 02/08/17 08:55
Date Received: 02/08/17 17:00

Lab Sample ID: 500-123628-2
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		02/13/17 08:20	02/13/17 16:10	1
Zinc	**0.45**	**J**	0.50	0.020	mg/L		02/13/17 08:20	02/13/17 16:10	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.99		0.99	0.21	mg/Kg	☼	02/10/17 08:30	02/12/17 02:53	1
Arsenic	**6.1**		0.49	0.23	mg/Kg	☼	02/10/17 08:30	02/12/17 02:53	1
Barium	**46**		0.49	0.091	mg/Kg	☼	02/10/17 08:30	02/12/17 02:53	1
Beryllium	**0.52**		0.20	0.043	mg/Kg	☼	02/10/17 08:30	02/12/17 02:53	1
Cadmium	**0.24**	**B**	0.099	0.029	mg/Kg	☼	02/10/17 08:30	02/12/17 02:53	1
Calcium	**13000**	**B**	9.9	3.2	mg/Kg	☼	02/10/17 08:30	02/12/17 02:53	1
Chromium	**16**	**B**	0.49	0.085	mg/Kg	☼	02/10/17 08:30	02/12/17 02:53	1
Cobalt	**12**		0.25	0.056	mg/Kg	☼	02/10/17 08:30	02/12/17 02:53	1
Copper	**18**		0.49	0.11	mg/Kg	☼	02/10/17 08:30	02/12/17 02:53	1
Iron	**16000**	**B**	9.9	3.8	mg/Kg	☼	02/10/17 08:30	02/12/17 02:53	1
Lead	**68**	**B**	0.25	0.12	mg/Kg	☼	02/10/17 08:30	02/12/17 02:53	1
Magnesium	**9700**	**B**	4.9	2.0	mg/Kg	☼	02/10/17 08:30	02/12/17 02:53	1
Manganese	**350**		0.49	0.098	mg/Kg	☼	02/10/17 08:30	02/12/17 02:53	1
Nickel	**26**		0.49	0.13	mg/Kg	☼	02/10/17 08:30	02/12/17 02:53	1
Potassium	**1400**		25	4.0	mg/Kg	☼	02/10/17 08:30	02/12/17 02:53	1
Selenium	**0.62**	**B**	0.49	0.24	mg/Kg	☼	02/10/17 08:30	02/12/17 02:53	1
Silver	<0.25		0.25	0.058	mg/Kg	☼	02/10/17 08:30	02/12/17 02:53	1
Sodium	**900**		49	6.5	mg/Kg	☼	02/10/17 08:30	02/12/17 02:53	1
Thallium	<0.49		0.49	0.24	mg/Kg	☼	02/10/17 08:30	02/12/17 02:53	1
Vanadium	**18**		0.25	0.072	mg/Kg	☼	02/10/17 08:30	02/12/17 02:53	1
Zinc	**79**		0.99	0.31	mg/Kg	☼	02/10/17 08:30	02/12/17 02:53	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 12:02	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		02/13/17 11:45	02/14/17 09:53	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**26**		18	9.6	ug/Kg	☼	02/09/17 16:15	02/10/17 11:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.3**		0.2	0.2	SU			02/13/17 10:31	1

Client Sample ID: A44-15(0-1)-020817
Date Collected: 02/08/17 09:20
Date Received: 02/08/17 17:00

Lab Sample ID: 500-123628-3
Matrix: Solid
Percent Solids: 87.6

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	☼	02/09/17 08:50	02/10/17 14:03	1
Benzene	<1.6		1.6	0.41	ug/Kg	☼	02/09/17 08:50	02/10/17 14:03	1
Bromodichloromethane	<1.6		1.6	0.33	ug/Kg	☼	02/09/17 08:50	02/10/17 14:03	1
Bromoform	<1.6		1.6	0.47	ug/Kg	☼	02/09/17 08:50	02/10/17 14:03	1
Bromomethane	<4.0		4.0	1.5	ug/Kg	☼	02/09/17 08:50	02/10/17 14:03	1
Carbon disulfide	<4.0		4.0	0.84	ug/Kg	☼	02/09/17 08:50	02/10/17 14:03	1
Carbon tetrachloride	<1.6		1.6	0.47	ug/Kg	☼	02/09/17 08:50	02/10/17 14:03	1
Chlorobenzene	<1.6		1.6	0.60	ug/Kg	☼	02/09/17 08:50	02/10/17 14:03	1
Chloroethane	<4.0		4.0	1.2	ug/Kg	☼	02/09/17 08:50	02/10/17 14:03	1
Chloroform	<1.6		1.6	0.56	ug/Kg	☼	02/09/17 08:50	02/10/17 14:03	1
Chloromethane	<4.0		4.0	1.6	ug/Kg	☼	02/09/17 08:50	02/10/17 14:03	1
cis-1,2-Dichloroethene	<1.6		1.6	0.45	ug/Kg	☼	02/09/17 08:50	02/10/17 14:03	1
cis-1,3-Dichloropropene	<1.6		1.6	0.49	ug/Kg	☼	02/09/17 08:50	02/10/17 14:03	1
Dibromochloromethane	<1.6		1.6	0.53	ug/Kg	☼	02/09/17 08:50	02/10/17 14:03	1
1,1-Dichloroethane	<1.6		1.6	0.55	ug/Kg	☼	02/09/17 08:50	02/10/17 14:03	1
1,2-Dichloroethane	<4.0		4.0	1.3	ug/Kg	☼	02/09/17 08:50	02/10/17 14:03	1
1,1-Dichloroethene	<1.6		1.6	0.56	ug/Kg	☼	02/09/17 08:50	02/10/17 14:03	1
1,2-Dichloropropane	<1.6		1.6	0.42	ug/Kg	☼	02/09/17 08:50	02/10/17 14:03	1
1,3-Dichloropropene, Total	<1.6		1.6	0.57	ug/Kg	☼	02/09/17 08:50	02/10/17 14:03	1
Ethylbenzene	<1.6		1.6	0.77	ug/Kg	☼	02/09/17 08:50	02/10/17 14:03	1
2-Hexanone	<4.0		4.0	1.3	ug/Kg	☼	02/09/17 08:50	02/10/17 14:03	1
Methylene Chloride	<4.0		4.0	1.6	ug/Kg	☼	02/09/17 08:50	02/10/17 14:03	1
Methyl Ethyl Ketone	<4.0		4.0	1.8	ug/Kg	☼	02/09/17 08:50	02/10/17 14:03	1
methyl isobutyl ketone	<4.0		4.0	1.2	ug/Kg	☼	02/09/17 08:50	02/10/17 14:03	1
Methyl tert-butyl ether	<1.6		1.6	0.47	ug/Kg	☼	02/09/17 08:50	02/10/17 14:03	1
Styrene	<1.6		1.6	0.49	ug/Kg	☼	02/09/17 08:50	02/10/17 14:03	1
1,1,2,2-Tetrachloroethane	<1.6		1.6	0.52	ug/Kg	☼	02/09/17 08:50	02/10/17 14:03	1
Tetrachloroethene	<1.6		1.6	0.55	ug/Kg	☼	02/09/17 08:50	02/10/17 14:03	1
Toluene	<1.6		1.6	0.41	ug/Kg	☼	02/09/17 08:50	02/10/17 14:03	1
trans-1,2-Dichloroethene	<1.6		1.6	0.72	ug/Kg	☼	02/09/17 08:50	02/10/17 14:03	1
trans-1,3-Dichloropropene	<1.6		1.6	0.57	ug/Kg	☼	02/09/17 08:50	02/10/17 14:03	1
1,1,1-Trichloroethane	<1.6		1.6	0.54	ug/Kg	☼	02/09/17 08:50	02/10/17 14:03	1
1,1,2-Trichloroethane	<1.6		1.6	0.69	ug/Kg	☼	02/09/17 08:50	02/10/17 14:03	1
Trichloroethene	<1.6		1.6	0.55	ug/Kg	☼	02/09/17 08:50	02/10/17 14:03	1
Vinyl chloride	<1.6		1.6	0.71	ug/Kg	☼	02/09/17 08:50	02/10/17 14:03	1
Xylenes, Total	<3.2		3.2	0.52	ug/Kg	☼	02/09/17 08:50	02/10/17 14:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 120*	*02/09/17 08:50*	*02/10/17 14:03*	*1*
Dibromofluoromethane	*95*		*75 - 120*	*02/09/17 08:50*	*02/10/17 14:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*69 - 134*	*02/09/17 08:50*	*02/10/17 14:03*	*1*
Toluene-d8 (Surr)	*108*		*75 - 123*	*02/09/17 08:50*	*02/10/17 14:03*	*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	☼	02/10/17 17:49	02/15/17 01:33	1
1,2-Dichlorobenzene	<180		180	44	ug/Kg	☼	02/10/17 17:49	02/15/17 01:33	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	02/10/17 17:49	02/15/17 01:33	1
1,4-Dichlorobenzene	<180		180	47	ug/Kg	☼	02/10/17 17:49	02/15/17 01:33	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	02/10/17 17:49	02/15/17 01:33	1

Client Sample ID: A44-15(0-1)-020817
Date Collected: 02/08/17 09:20
Date Received: 02/08/17 17:00

Lab Sample ID: 500-123628-3
Matrix: Solid
Percent Solids: 87.6

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	☼	02/10/17 17:49	02/15/17 01:33	1
2,4,6-Trichlorophenol	<360		360	120	ug/Kg	☼	02/10/17 17:49	02/15/17 01:33	1
2,4-Dichlorophenol	<360		360	87	ug/Kg	☼	02/10/17 17:49	02/15/17 01:33	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	02/10/17 17:49	02/15/17 01:33	1
2,4-Dinitrophenol	<730		730	640	ug/Kg	☼	02/10/17 17:49	02/15/17 01:33	1
2,4-Dinitrotoluene	<180		180	58	ug/Kg	☼	02/10/17 17:49	02/15/17 01:33	1
2,6-Dinitrotoluene	<180		180	72	ug/Kg	☼	02/10/17 17:49	02/15/17 01:33	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	02/10/17 17:49	02/15/17 01:33	1
2-Chlorophenol	<180		180	62	ug/Kg	☼	02/10/17 17:49	02/15/17 01:33	1
2-Methylnaphthalene	<73		73	6.7	ug/Kg	☼	02/10/17 17:49	02/15/17 01:33	1
2-Methylphenol	<180		180	58	ug/Kg	☼	02/10/17 17:49	02/15/17 01:33	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	02/10/17 17:49	02/15/17 01:33	1
2-Nitrophenol	<360		360	86	ug/Kg	☼	02/10/17 17:49	02/15/17 01:33	1
3 & 4 Methylphenol	<180		180	61	ug/Kg	☼	02/10/17 17:49	02/15/17 01:33	1
3,3'-Dichlorobenzidine	<180		180	51	ug/Kg	☼	02/10/17 17:49	02/15/17 01:33	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	02/10/17 17:49	02/15/17 01:33	1
4,6-Dinitro-2-methylphenol	<730		730	290	ug/Kg	☼	02/10/17 17:49	02/15/17 01:33	1
4-Bromophenyl phenyl ether	<180		180	48	ug/Kg	☼	02/10/17 17:49	02/15/17 01:33	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	02/10/17 17:49	02/15/17 01:33	1
4-Chloroaniline	<730		730	170	ug/Kg	☼	02/10/17 17:49	02/15/17 01:33	1
4-Chlorophenyl phenyl ether	<180		180	43	ug/Kg	☼	02/10/17 17:49	02/15/17 01:33	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	02/10/17 17:49	02/15/17 01:33	1
4-Nitrophenol	<730		730	350	ug/Kg	☼	02/10/17 17:49	02/15/17 01:33	1
Acenaphthene	<36		36	6.5	ug/Kg	☼	02/10/17 17:49	02/15/17 01:33	1
Acenaphthylene	<36		36	4.8	ug/Kg	☼	02/10/17 17:49	02/15/17 01:33	1
Anthracene	**12**	**J**	36	6.1	ug/Kg	☼	02/10/17 17:49	02/15/17 01:33	1
Benzo[a]anthracene	**46**		36	4.9	ug/Kg	☼	02/10/17 17:49	02/15/17 01:33	1
Benzo[a]pyrene	**45**		36	7.0	ug/Kg	☼	02/10/17 17:49	02/15/17 01:33	1
Benzo[b]fluoranthene	**73**		36	7.9	ug/Kg	☼	02/10/17 17:49	02/15/17 01:33	1
Benzo[g,h,i]perylene	**20**	**J**	36	12	ug/Kg	☼	02/10/17 17:49	02/15/17 01:33	1
Benzo[k]fluoranthene	**32**	**J**	36	11	ug/Kg	☼	02/10/17 17:49	02/15/17 01:33	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	02/10/17 17:49	02/15/17 01:33	1
Bis(2-chloroethyl)ether	<180		180	55	ug/Kg	☼	02/10/17 17:49	02/15/17 01:33	1
Bis(2-ethylhexyl) phthalate	<180		180	67	ug/Kg	☼	02/10/17 17:49	02/15/17 01:33	1
Butyl benzyl phthalate	<180		180	69	ug/Kg	☼	02/10/17 17:49	02/15/17 01:33	1
Carbazole	<180		180	91	ug/Kg	☼	02/10/17 17:49	02/15/17 01:33	1
Chrysene	**52**		36	9.9	ug/Kg	☼	02/10/17 17:49	02/15/17 01:33	1
Dibenz(a,h)anthracene	<36		36	7.0	ug/Kg	☼	02/10/17 17:49	02/15/17 01:33	1
Dibenzofuran	<180		180	43	ug/Kg	☼	02/10/17 17:49	02/15/17 01:33	1
Diethyl phthalate	<180		180	62	ug/Kg	☼	02/10/17 17:49	02/15/17 01:33	1
Dimethyl phthalate	<180		180	48	ug/Kg	☼	02/10/17 17:49	02/15/17 01:33	1
Di-n-butyl phthalate	<180		180	55	ug/Kg	☼	02/10/17 17:49	02/15/17 01:33	1
Di-n-octyl phthalate	<180		180	59	ug/Kg	☼	02/10/17 17:49	02/15/17 01:33	1
Fluoranthene	**120**		36	6.8	ug/Kg	☼	02/10/17 17:49	02/15/17 01:33	1
Fluorene	<36		36	5.1	ug/Kg	☼	02/10/17 17:49	02/15/17 01:33	1
Hexachlorobenzene	<73		73	8.4	ug/Kg	☼	02/10/17 17:49	02/15/17 01:33	1
Hexachlorobutadiene	<180		180	57	ug/Kg	☼	02/10/17 17:49	02/15/17 01:33	1
Hexachlorocyclopentadiene	<730		730	210	ug/Kg	☼	02/10/17 17:49	02/15/17 01:33	1
Hexachloroethane	<180		180	55	ug/Kg	☼	02/10/17 17:49	02/15/17 01:33	1

Client Sample ID: A44-15(0-1)-020817
Date Collected: 02/08/17 09:20
Date Received: 02/08/17 17:00

Lab Sample ID: 500-123628-3
Matrix: Solid
Percent Solids: 87.6

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	**18**	**J**	36	9.4	ug/Kg	☼	02/10/17 17:49	02/15/17 01:33	1
Isophorone	<180		180	41	ug/Kg	☼	02/10/17 17:49	02/15/17 01:33	1
Naphthalene	<36		36	5.6	ug/Kg	☼	02/10/17 17:49	02/15/17 01:33	1
Nitrobenzene	<36		36	9.1	ug/Kg	☼	02/10/17 17:49	02/15/17 01:33	1
N-Nitrosodi-n-propylamine	<73		73	45	ug/Kg	☼	02/10/17 17:49	02/15/17 01:33	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	02/10/17 17:49	02/15/17 01:33	1
Pentachlorophenol	<730		730	580	ug/Kg	☼	02/10/17 17:49	02/15/17 01:33	1
Phenanthrene	**68**		36	5.1	ug/Kg	☼	02/10/17 17:49	02/15/17 01:33	1
Phenol	<180		180	81	ug/Kg	☼	02/10/17 17:49	02/15/17 01:33	1
Pyrene	**98**		36	7.2	ug/Kg	☼	02/10/17 17:49	02/15/17 01:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*88*		*25 - 130*	*02/10/17 17:49*	*02/15/17 01:33*	*1*
2-Fluorobiphenyl	*77*		*42 - 115*	*02/10/17 17:49*	*02/15/17 01:33*	*1*
2-Fluorophenol	*79*		*40 - 130*	*02/10/17 17:49*	*02/15/17 01:33*	*1*
Nitrobenzene-d5	*72*		*33 - 124*	*02/10/17 17:49*	*02/15/17 01:33*	*1*
Phenol-d5	*78*		*36 - 123*	*02/10/17 17:49*	*02/15/17 01:33*	*1*
Terphenyl-d14	*96*		*25 - 150*	*02/10/17 17:49*	*02/15/17 01:33*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/13/17 08:19	02/13/17 19:01	1
Barium	**0.30**	**J**	0.50	0.050	mg/L		02/13/17 08:19	02/13/17 19:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/13/17 08:19	02/13/17 19:01	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/13/17 08:19	02/13/17 19:01	1
Chromium	<0.025		0.025	0.010	mg/L		02/13/17 08:19	02/13/17 19:01	1
Cobalt	<0.025		0.025	0.010	mg/L		02/13/17 08:19	02/13/17 19:01	1
Copper	<0.040		0.040	0.010	mg/L		02/13/17 08:19	02/13/17 19:01	1
Iron	<0.40		0.40	0.20	mg/L		02/13/17 08:19	02/13/17 19:01	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/13/17 08:19	02/13/17 19:01	1
Manganese	**0.12**		0.025	0.010	mg/L		02/13/17 08:19	02/13/17 19:01	1
Nickel	<0.025		0.025	0.010	mg/L		02/13/17 08:19	02/13/17 19:01	1
Selenium	<0.050		0.050	0.020	mg/L		02/13/17 08:19	02/13/17 19:01	1
Silver	<0.025		0.025	0.010	mg/L		02/13/17 08:19	02/13/17 19:01	1
Zinc	**0.062**	**J B**	0.50	0.020	mg/L		02/13/17 08:19	02/13/17 19:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.020**	**J**	0.050	0.010	mg/L		02/13/17 08:20	02/13/17 16:16	1
Barium	**0.30**	**J**	0.50	0.050	mg/L		02/13/17 08:20	02/13/17 16:16	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/13/17 08:20	02/13/17 16:16	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/13/17 08:20	02/13/17 16:16	1
Chromium	**0.083**		0.025	0.010	mg/L		02/13/17 08:20	02/13/17 16:16	1
Cobalt	**0.021**	**J**	0.025	0.010	mg/L		02/13/17 08:20	02/13/17 16:16	1
Copper	**0.076**		0.025	0.010	mg/L		02/13/17 08:20	02/13/17 16:16	1
Iron	**79**		0.40	0.20	mg/L		02/13/17 08:20	02/13/17 16:16	1
Lead	**0.11**		0.0075	0.0075	mg/L		02/13/17 08:20	02/13/17 16:16	1
Manganese	**0.93**		0.025	0.010	mg/L		02/13/17 08:20	02/13/17 16:16	1
Nickel	**0.076**		0.025	0.010	mg/L		02/13/17 08:20	02/13/17 16:16	1
Selenium	<0.050		0.050	0.020	mg/L		02/13/17 08:20	02/13/17 16:16	1

Client Sample ID: A44-15(0-1)-020817
Date Collected: 02/08/17 09:20
Date Received: 02/08/17 17:00

Lab Sample ID: 500-123628-3
Matrix: Solid
Percent Solids: 87.6

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		02/13/17 08:20	02/13/17 16:16	1
Zinc	**0.29**	**J**	0.50	0.020	mg/L		02/13/17 08:20	02/13/17 16:16	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.35**	**J B**	0.99	0.21	mg/Kg	☼	02/10/17 08:30	02/12/17 02:59	1
Arsenic	**3.8**		0.50	0.23	mg/Kg	☼	02/10/17 08:30	02/12/17 02:59	1
Barium	**27**		0.50	0.091	mg/Kg	☼	02/10/17 08:30	02/12/17 02:59	1
Beryllium	**0.26**		0.20	0.043	mg/Kg	☼	02/10/17 08:30	02/12/17 02:59	1
Cadmium	**0.25**	**B**	0.099	0.029	mg/Kg	☼	02/10/17 08:30	02/12/17 02:59	1
Calcium	**120000**	**B**	99	32	mg/Kg	☼	02/10/17 08:30	02/12/17 05:26	10
Chromium	**8.0**	**B**	0.50	0.085	mg/Kg	☼	02/10/17 08:30	02/12/17 02:59	1
Cobalt	**4.3**		0.25	0.056	mg/Kg	☼	02/10/17 08:30	02/12/17 02:59	1
Copper	**13**		0.50	0.11	mg/Kg	☼	02/10/17 08:30	02/12/17 02:59	1
Iron	**7600**	**B**	9.9	3.8	mg/Kg	☼	02/10/17 08:30	02/12/17 02:59	1
Lead	**50**	**B**	0.25	0.12	mg/Kg	☼	02/10/17 08:30	02/12/17 02:59	1
Magnesium	**73000**	**B**	50	20	mg/Kg	☼	02/10/17 08:30	02/12/17 05:26	10
Manganese	**220**		0.50	0.098	mg/Kg	☼	02/10/17 08:30	02/12/17 02:59	1
Nickel	**9.2**		0.50	0.13	mg/Kg	☼	02/10/17 08:30	02/12/17 02:59	1
Potassium	**560**		25	4.0	mg/Kg	☼	02/10/17 08:30	02/12/17 02:59	1
Selenium	<0.50		0.50	0.25	mg/Kg	☼	02/10/17 08:30	02/12/17 02:59	1
Silver	<0.25		0.25	0.058	mg/Kg	☼	02/10/17 08:30	02/12/17 02:59	1
Sodium	**630**		50	6.6	mg/Kg	☼	02/10/17 08:30	02/12/17 02:59	1
Thallium	<0.50		0.50	0.24	mg/Kg	☼	02/10/17 08:30	02/12/17 02:59	1
Vanadium	**9.8**		0.25	0.072	mg/Kg	☼	02/10/17 08:30	02/12/17 02:59	1
Zinc	**57**		0.99	0.31	mg/Kg	☼	02/10/17 08:30	02/12/17 02:59	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 12:04	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 11:45	02/14/17 09:54	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**17**		16	8.6	ug/Kg	☼	02/09/17 16:15	02/10/17 11:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.4**		0.2	0.2	SU			02/13/17 10:37	1

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

TestAmerica Job ID: 500-123628-1

Client Sample ID: A44-20(0-1)-020817
Date Collected: 02/08/17 10:40
Date Received: 02/08/17 17:00

Lab Sample ID: 500-123628-8
Matrix: Solid
Percent Solids: 85.5

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	☼	02/09/17 08:50	02/10/17 16:06	1
Benzene	<1.9		1.9	0.48	ug/Kg	☼	02/09/17 08:50	02/10/17 16:06	1
Bromodichloromethane	<1.9		1.9	0.38	ug/Kg	☼	02/09/17 08:50	02/10/17 16:06	1
Bromoform	<1.9		1.9	0.55	ug/Kg	☼	02/09/17 08:50	02/10/17 16:06	1
Bromomethane	<4.7		4.7	1.8	ug/Kg	☼	02/09/17 08:50	02/10/17 16:06	1
Carbon disulfide	<4.7		4.7	0.98	ug/Kg	☼	02/09/17 08:50	02/10/17 16:06	1
Carbon tetrachloride	<1.9		1.9	0.55	ug/Kg	☼	02/09/17 08:50	02/10/17 16:06	1
Chlorobenzene	<1.9		1.9	0.69	ug/Kg	☼	02/09/17 08:50	02/10/17 16:06	1
Chloroethane	<4.7		4.7	1.4	ug/Kg	☼	02/09/17 08:50	02/10/17 16:06	1
Chloroform	<1.9		1.9	0.65	ug/Kg	☼	02/09/17 08:50	02/10/17 16:06	1
Chloromethane	<4.7		4.7	1.9	ug/Kg	☼	02/09/17 08:50	02/10/17 16:06	1
cis-1,2-Dichloroethene	<1.9		1.9	0.53	ug/Kg	☼	02/09/17 08:50	02/10/17 16:06	1
cis-1,3-Dichloropropene	<1.9		1.9	0.57	ug/Kg	☼	02/09/17 08:50	02/10/17 16:06	1
Dibromochloromethane	<1.9		1.9	0.62	ug/Kg	☼	02/09/17 08:50	02/10/17 16:06	1
1,1-Dichloroethane	<1.9		1.9	0.65	ug/Kg	☼	02/09/17 08:50	02/10/17 16:06	1
1,2-Dichloroethane	<4.7		4.7	1.5	ug/Kg	☼	02/09/17 08:50	02/10/17 16:06	1
1,1-Dichloroethene	<1.9		1.9	0.65	ug/Kg	☼	02/09/17 08:50	02/10/17 16:06	1
1,2-Dichloropropane	<1.9		1.9	0.49	ug/Kg	☼	02/09/17 08:50	02/10/17 16:06	1
1,3-Dichloropropene, Total	<1.9		1.9	0.66	ug/Kg	☼	02/09/17 08:50	02/10/17 16:06	1
Ethylbenzene	<1.9		1.9	0.90	ug/Kg	☼	02/09/17 08:50	02/10/17 16:06	1
2-Hexanone	<4.7		4.7	1.5	ug/Kg	☼	02/09/17 08:50	02/10/17 16:06	1
Methylene Chloride	<4.7		4.7	1.9	ug/Kg	☼	02/09/17 08:50	02/10/17 16:06	1
Methyl Ethyl Ketone	<4.7		4.7	2.1	ug/Kg	☼	02/09/17 08:50	02/10/17 16:06	1
methyl isobutyl ketone	<4.7		4.7	1.4	ug/Kg	☼	02/09/17 08:50	02/10/17 16:06	1
Methyl tert-butyl ether	<1.9		1.9	0.55	ug/Kg	☼	02/09/17 08:50	02/10/17 16:06	1
Styrene	<1.9		1.9	0.57	ug/Kg	☼	02/09/17 08:50	02/10/17 16:06	1
1,1,2,2-Tetrachloroethane	<1.9		1.9	0.60	ug/Kg	☼	02/09/17 08:50	02/10/17 16:06	1
Tetrachloroethene	<1.9		1.9	0.64	ug/Kg	☼	02/09/17 08:50	02/10/17 16:06	1
Toluene	<1.9		1.9	0.48	ug/Kg	☼	02/09/17 08:50	02/10/17 16:06	1
trans-1,2-Dichloroethene	<1.9		1.9	0.83	ug/Kg	☼	02/09/17 08:50	02/10/17 16:06	1
trans-1,3-Dichloropropene	<1.9		1.9	0.66	ug/Kg	☼	02/09/17 08:50	02/10/17 16:06	1
1,1,1-Trichloroethane	<1.9		1.9	0.63	ug/Kg	☼	02/09/17 08:50	02/10/17 16:06	1
1,1,2-Trichloroethane	<1.9		1.9	0.81	ug/Kg	☼	02/09/17 08:50	02/10/17 16:06	1
Trichloroethene	<1.9		1.9	0.64	ug/Kg	☼	02/09/17 08:50	02/10/17 16:06	1
Vinyl chloride	<1.9		1.9	0.83	ug/Kg	☼	02/09/17 08:50	02/10/17 16:06	1
Xylenes, Total	<3.8		3.8	0.60	ug/Kg	☼	02/09/17 08:50	02/10/17 16:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 120*	*02/09/17 08:50*	*02/10/17 16:06*	*1*
Dibromofluoromethane	*97*		*75 - 120*	*02/09/17 08:50*	*02/10/17 16:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*69 - 134*	*02/09/17 08:50*	*02/10/17 16:06*	*1*
Toluene-d8 (Surr)	*111*		*75 - 123*	*02/09/17 08:50*	*02/10/17 16:06*	*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	☼	02/10/17 17:49	02/15/17 03:19	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	02/10/17 17:49	02/15/17 03:19	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	02/10/17 17:49	02/15/17 03:19	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	02/10/17 17:49	02/15/17 03:19	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	02/10/17 17:49	02/15/17 03:19	1

Client Sample ID: A44-20(0-1)-020817
Date Collected: 02/08/17 10:40
Date Received: 02/08/17 17:00

Lab Sample ID: 500-123628-8
Matrix: Solid
Percent Solids: 85.5

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	☼	02/10/17 17:49	02/15/17 03:19	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	02/10/17 17:49	02/15/17 03:19	1
2,4-Dichlorophenol	<380		380	91	ug/Kg	☼	02/10/17 17:49	02/15/17 03:19	1
2,4-Dimethylphenol	<380		380	140	ug/Kg	☼	02/10/17 17:49	02/15/17 03:19	1
2,4-Dinitrophenol	<770		770	670	ug/Kg	☼	02/10/17 17:49	02/15/17 03:19	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	02/10/17 17:49	02/15/17 03:19	1
2,6-Dinitrotoluene	<190		190	75	ug/Kg	☼	02/10/17 17:49	02/15/17 03:19	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	02/10/17 17:49	02/15/17 03:19	1
2-Chlorophenol	<190		190	65	ug/Kg	☼	02/10/17 17:49	02/15/17 03:19	1
2-Methylnaphthalene	<77		77	7.0	ug/Kg	☼	02/10/17 17:49	02/15/17 03:19	1
2-Methylphenol	<190		190	61	ug/Kg	☼	02/10/17 17:49	02/15/17 03:19	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	02/10/17 17:49	02/15/17 03:19	1
2-Nitrophenol	<380		380	90	ug/Kg	☼	02/10/17 17:49	02/15/17 03:19	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	☼	02/10/17 17:49	02/15/17 03:19	1
3,3'-Dichlorobenzidine	<190		190	53	ug/Kg	☼	02/10/17 17:49	02/15/17 03:19	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	02/10/17 17:49	02/15/17 03:19	1
4,6-Dinitro-2-methylphenol	<770		770	310	ug/Kg	☼	02/10/17 17:49	02/15/17 03:19	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	02/10/17 17:49	02/15/17 03:19	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	02/10/17 17:49	02/15/17 03:19	1
4-Chloroaniline	<770		770	180	ug/Kg	☼	02/10/17 17:49	02/15/17 03:19	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	02/10/17 17:49	02/15/17 03:19	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	02/10/17 17:49	02/15/17 03:19	1
4-Nitrophenol	<770		770	360	ug/Kg	☼	02/10/17 17:49	02/15/17 03:19	1
Acenaphthene	**16**	**J**	38	6.9	ug/Kg	☼	02/10/17 17:49	02/15/17 03:19	1
Acenaphthylene	**5.6**	**J**	38	5.0	ug/Kg	☼	02/10/17 17:49	02/15/17 03:19	1
Anthracene	**37**	**J**	38	6.4	ug/Kg	☼	02/10/17 17:49	02/15/17 03:19	1
Benzo[a]anthracene	**170**		38	5.1	ug/Kg	☼	02/10/17 17:49	02/15/17 03:19	1
Benzo[a]pyrene	**170**	*	38	7.4	ug/Kg	☼	02/10/17 17:49	02/15/17 03:19	1
Benzo[b]fluoranthene	**300**	*	38	8.2	ug/Kg	☼	02/10/17 17:49	02/15/17 03:19	1
Benzo[g,h,i]perylene	**78**	*	38	12	ug/Kg	☼	02/10/17 17:49	02/15/17 03:19	1
Benzo[k]fluoranthene	**130**	*	38	11	ug/Kg	☼	02/10/17 17:49	02/15/17 03:19	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	02/10/17 17:49	02/15/17 03:19	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	02/10/17 17:49	02/15/17 03:19	1
Bis(2-ethylhexyl) phthalate	<190		190	70	ug/Kg	☼	02/10/17 17:49	02/15/17 03:19	1
Butyl benzyl phthalate	<190		190	73	ug/Kg	☼	02/10/17 17:49	02/15/17 03:19	1
Carbazole	<190		190	95	ug/Kg	☼	02/10/17 17:49	02/15/17 03:19	1
Chrysene	**190**		38	10	ug/Kg	☼	02/10/17 17:49	02/15/17 03:19	1
Dibenz(a,h)anthracene	<38	*	38	7.4	ug/Kg	☼	02/10/17 17:49	02/15/17 03:19	1
Dibenzofuran	<190		190	45	ug/Kg	☼	02/10/17 17:49	02/15/17 03:19	1
Diethyl phthalate	<190		190	65	ug/Kg	☼	02/10/17 17:49	02/15/17 03:19	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	02/10/17 17:49	02/15/17 03:19	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	02/10/17 17:49	02/15/17 03:19	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	02/10/17 17:49	02/15/17 03:19	1
Fluoranthene	**450**		38	7.1	ug/Kg	☼	02/10/17 17:49	02/15/17 03:19	1
Fluorene	**15**	**J**	38	5.4	ug/Kg	☼	02/10/17 17:49	02/15/17 03:19	1
Hexachlorobenzene	<77		77	8.9	ug/Kg	☼	02/10/17 17:49	02/15/17 03:19	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	02/10/17 17:49	02/15/17 03:19	1
Hexachlorocyclopentadiene	<770		770	220	ug/Kg	☼	02/10/17 17:49	02/15/17 03:19	1
Hexachloroethane	<190		190	58	ug/Kg	☼	02/10/17 17:49	02/15/17 03:19	1

Client Sample ID: A44-20(0-1)-020817
Date Collected: 02/08/17 10:40
Date Received: 02/08/17 17:00

Lab Sample ID: 500-123628-8
Matrix: Solid
Percent Solids: 85.5

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	**64**	*	38	9.9	ug/Kg	☼	02/10/17 17:49	02/15/17 03:19	1
Isophorone	<190		190	43	ug/Kg	☼	02/10/17 17:49	02/15/17 03:19	1
Naphthalene	**8.8**	J	38	5.9	ug/Kg	☼	02/10/17 17:49	02/15/17 03:19	1
Nitrobenzene	<38		38	9.5	ug/Kg	☼	02/10/17 17:49	02/15/17 03:19	1
N-Nitrosodi-n-propylamine	<77		77	47	ug/Kg	☼	02/10/17 17:49	02/15/17 03:19	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	02/10/17 17:49	02/15/17 03:19	1
Pentachlorophenol	<770		770	610	ug/Kg	☼	02/10/17 17:49	02/15/17 03:19	1
Phenanthrene	**200**		38	5.3	ug/Kg	☼	02/10/17 17:49	02/15/17 03:19	1
Phenol	<190		190	85	ug/Kg	☼	02/10/17 17:49	02/15/17 03:19	1
Pyrene	**510**		38	7.6	ug/Kg	☼	02/10/17 17:49	02/15/17 03:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*101*		*25 - 130*	*02/10/17 17:49*	*02/15/17 03:19*	*1*
2-Fluorobiphenyl	*69*		*42 - 115*	*02/10/17 17:49*	*02/15/17 03:19*	*1*
2-Fluorophenol	*67*		*40 - 130*	*02/10/17 17:49*	*02/15/17 03:19*	*1*
Nitrobenzene-d5	*59*		*33 - 124*	*02/10/17 17:49*	*02/15/17 03:19*	*1*
Phenol-d5	*71*		*36 - 123*	*02/10/17 17:49*	*02/15/17 03:19*	*1*
Terphenyl-d14	*146*		*25 - 150*	*02/10/17 17:49*	*02/15/17 03:19*	*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		02/13/17 08:19	02/13/17 19:32	1
Barium	**0.44**	J	0.50	0.050	mg/L		02/13/17 08:19	02/13/17 19:32	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/13/17 08:19	02/13/17 19:32	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/13/17 08:19	02/13/17 19:32	1
Chromium	<0.025		0.025	0.010	mg/L		02/13/17 08:19	02/13/17 19:32	1
Cobalt	<0.025		0.025	0.010	mg/L		02/13/17 08:19	02/13/17 19:32	1
Copper	<0.040		0.040	0.010	mg/L		02/13/17 08:19	02/13/17 19:32	1
Iron	<0.40		0.40	0.20	mg/L		02/13/17 08:19	02/13/17 19:32	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/13/17 08:19	02/13/17 19:32	1
Manganese	**0.15**		0.025	0.010	mg/L		02/13/17 08:19	02/13/17 19:32	1
Nickel	<0.025		0.025	0.010	mg/L		02/13/17 08:19	02/13/17 19:32	1
Selenium	<0.050		0.050	0.020	mg/L		02/13/17 08:19	02/13/17 19:32	1
Silver	<0.025		0.025	0.010	mg/L		02/13/17 08:19	02/13/17 19:32	1
Zinc	**0.10**	J B	0.50	0.020	mg/L		02/13/17 08:19	02/13/17 19:32	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		02/13/17 08:20	02/13/17 16:42	1
Barium	**0.18**	J	0.50	0.050	mg/L		02/13/17 08:20	02/13/17 16:42	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/13/17 08:20	02/13/17 16:42	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/13/17 08:20	02/13/17 16:42	1
Chromium	**0.048**		0.025	0.010	mg/L		02/13/17 08:20	02/13/17 16:42	1
Cobalt	<0.025		0.025	0.010	mg/L		02/13/17 08:20	02/13/17 16:42	1
Copper	**0.044**		0.025	0.010	mg/L		02/13/17 08:20	02/13/17 16:42	1
Iron	**40**		0.40	0.20	mg/L		02/13/17 08:20	02/13/17 16:42	1
Lead	**0.061**		0.0075	0.0075	mg/L		02/13/17 08:20	02/13/17 16:42	1
Manganese	**0.21**		0.025	0.010	mg/L		02/13/17 08:20	02/13/17 16:42	1
Nickel	**0.042**		0.025	0.010	mg/L		02/13/17 08:20	02/13/17 16:42	1
Selenium	<0.050		0.050	0.020	mg/L		02/13/17 08:20	02/13/17 16:42	1

Client Sample ID: A44-20(0-1)-020817
Date Collected: 02/08/17 10:40
Date Received: 02/08/17 17:00

Lab Sample ID: 500-123628-8
Matrix: Solid
Percent Solids: 85.5

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		02/13/17 08:20	02/13/17 16:42	1
Zinc	**0.15**	**J**	0.50	0.020	mg/L		02/13/17 08:20	02/13/17 16:42	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.64**	**J B**	0.96	0.20	mg/Kg	☼	02/10/17 08:30	02/12/17 03:24	1
Arsenic	**2.3**		0.48	0.22	mg/Kg	☼	02/10/17 08:30	02/12/17 03:24	1
Barium	**36**		0.48	0.088	mg/Kg	☼	02/10/17 08:30	02/12/17 03:24	1
Beryllium	**0.20**		0.19	0.042	mg/Kg	☼	02/10/17 08:30	02/12/17 03:24	1
Cadmium	**0.35**	**B**	0.096	0.028	mg/Kg	☼	02/10/17 08:30	02/12/17 03:24	1
Calcium	**160000**	**B**	96	31	mg/Kg	☼	02/10/17 08:30	02/12/17 05:51	10
Chromium	**12**	**B**	0.48	0.083	mg/Kg	☼	02/10/17 08:30	02/12/17 03:24	1
Cobalt	**3.2**		0.24	0.054	mg/Kg	☼	02/10/17 08:30	02/12/17 03:24	1
Copper	**18**		0.48	0.10	mg/Kg	☼	02/10/17 08:30	02/12/17 03:24	1
Iron	**6800**	**B**	9.6	3.7	mg/Kg	☼	02/10/17 08:30	02/12/17 03:24	1
Lead	**90**	**B**	0.24	0.12	mg/Kg	☼	02/10/17 08:30	02/12/17 03:24	1
Magnesium	**100000**	**B**	48	20	mg/Kg	☼	02/10/17 08:30	02/12/17 05:51	10
Manganese	**190**		0.48	0.095	mg/Kg	☼	02/10/17 08:30	02/12/17 03:24	1
Nickel	**10**		0.48	0.13	mg/Kg	☼	02/10/17 08:30	02/12/17 03:24	1
Potassium	**640**		24	3.9	mg/Kg	☼	02/10/17 08:30	02/12/17 03:24	1
Selenium	<0.48		0.48	0.24	mg/Kg	☼	02/10/17 08:30	02/12/17 03:24	1
Silver	<0.24		0.24	0.056	mg/Kg	☼	02/10/17 08:30	02/12/17 03:24	1
Sodium	**400**		48	6.3	mg/Kg	☼	02/10/17 08:30	02/12/17 03:24	1
Thallium	<0.48		0.48	0.24	mg/Kg	☼	02/10/17 08:30	02/12/17 03:24	1
Vanadium	**7.4**		0.24	0.070	mg/Kg	☼	02/10/17 08:30	02/12/17 03:24	1
Zinc	**89**		0.96	0.30	mg/Kg	☼	02/10/17 08:30	02/12/17 03:24	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 12:11	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 11:45	02/14/17 10:01	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**20**		19	9.9	ug/Kg	☼	02/09/17 16:15	02/10/17 11:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.9**		0.2	0.2	SU			02/13/17 11:05	1

Definitions/Glossary

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

TestAmerica Job ID: 500-123628-1

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
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
X	Surrogate is outside control limits
F1	MS and/or MSD Recovery is outside acceptance limits.
E	Result exceeded calibration range.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. 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: 500-123628-1

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 60
Phone: 708.534.5200 Fax: 708.534

500-123628 COC

Chain of Custody Record

Lab Job #: 500-123628

Chain of Custody Number:

Page 1 of 2

Temperature °C/Cooler: 4.3, 3.4, 2.7, 2.9, 4.0, 3.6

Report To (optional)		Bill To (optional)	
Contact:	S. Balasubramaniam	Contact:	
Company:	Weston Solutions	Company:	
Address:	350 Plaza Dr, Ste 202	Address:	
Address:	Mundelein, IL 60060	Address:	
Phone:	224-864-7250	Phone:	
Fax:		Fax:	
E-Mail:		PO#/Reference#	

Client	Weston Solutions	Client Project #	
Project Name	IDOT 053		
Project Location/State	Beecher / IL	Lab Project #	
Sampler	AT	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		AUU-14(0-1)-020817	2/8/17	0855	6	S		X	X	X	X	X	
2		AUU-14(0-1)-020817D		0855	6	S							
3		AUU-15(0-1)-020817		0920	6	S							
4		AUU-16(0-1)-020817		0930	6	S							
5		AUU-17(0-1)-020817		0945	6	S							
6		AUU-18(0-1)-020817		1000	6	S							
7		AUU-19(0-1)-020817		1020	6	S							
8		AUU-20(0-1)-020817		1040	6	S							
9		AUU-21(0-1)-020817		1053	6	S							
10		AUU-22(0-1)-020817	2/8/17	1115	6	S		X	X	X	X	X	

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days X 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
1		Weston	2/8/17	1700		TA	2/8/17	1700
2	Relinquished By	Company	Date	Time	Received By	Company	Date	Time
3	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. Balasubramanian
Company: Weston Solutions
Address: 300 Plaza Cir, Ste 202
Address: Mundelein, IL 60060
Phone: 224-836-7250
Fax:
E-Mail:

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

Chain of Custody Record

Lab Job #: 500-123628
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. T.
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
11		A38-13(0-1)-020817	2/8/17	1100	6	S	X	X	X	X	X					
12		A38-13(0-1)-020817D		1150	6	S										
13		A38-14(0-1)-020817		1205	6	S										
14		A38-15(0-1)-020817		1225	6	S										
15		A38-16(0-1)-020817		1305	6	S										
16		A38-17(0-1)-020817		1310	6	S										
17		A38-18(0-1)-020817		1322	6	S										
18		A38-19(0-1)-020817		1338	6	S										
19		A38-20(0-1)-020817		1355	6	S										
20		FB0-1(0-1)-020817	2/8/17	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
	Weston	2/8/17	1700		TA	2/8/17	1700
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:

2/15/2017

(AE-4124-500 (1209)

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: 500-123629-1
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:
2/17/2017 4:03:45 PM

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

Client Sample ID: A44-4(0-1)-020817
Date Collected: 02/08/17 09:45
Date Received: 02/08/17 17:00

Lab Sample ID: 500-123629-11
Matrix: Solid
Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<17		17	7.3	ug/Kg	☼	02/09/17 08:50	02/14/17 12:19	1
Benzene	<1.7		1.7	0.43	ug/Kg	☼	02/09/17 08:50	02/14/17 12:19	1
Bromodichloromethane	<1.7		1.7	0.34	ug/Kg	☼	02/09/17 08:50	02/14/17 12:19	1
Bromoform	<1.7		1.7	0.49	ug/Kg	☼	02/09/17 08:50	02/14/17 12:19	1
Bromomethane	<4.2		4.2	1.6	ug/Kg	☼	02/09/17 08:50	02/14/17 12:19	1
Carbon disulfide	<4.2		4.2	0.88	ug/Kg	☼	02/09/17 08:50	02/14/17 12:19	1
Carbon tetrachloride	<1.7		1.7	0.49	ug/Kg	☼	02/09/17 08:50	02/14/17 12:19	1
Chlorobenzene	<1.7		1.7	0.62	ug/Kg	☼	02/09/17 08:50	02/14/17 12:19	1
Chloroethane	<4.2		4.2	1.2	ug/Kg	☼	02/09/17 08:50	02/14/17 12:19	1
Chloroform	<1.7		1.7	0.59	ug/Kg	☼	02/09/17 08:50	02/14/17 12:19	1
Chloromethane	<4.2		4.2	1.7	ug/Kg	☼	02/09/17 08:50	02/14/17 12:19	1
cis-1,2-Dichloroethene	<1.7		1.7	0.47	ug/Kg	☼	02/09/17 08:50	02/14/17 12:19	1
cis-1,3-Dichloropropene	<1.7		1.7	0.51	ug/Kg	☼	02/09/17 08:50	02/14/17 12:19	1
Dibromochloromethane	<1.7	*	1.7	0.55	ug/Kg	☼	02/09/17 08:50	02/14/17 12:19	1
1,1-Dichloroethane	<1.7		1.7	0.58	ug/Kg	☼	02/09/17 08:50	02/14/17 12:19	1
1,2-Dichloroethane	<4.2		4.2	1.3	ug/Kg	☼	02/09/17 08:50	02/14/17 12:19	1
1,1-Dichloroethene	<1.7		1.7	0.58	ug/Kg	☼	02/09/17 08:50	02/14/17 12:19	1
1,2-Dichloropropane	<1.7		1.7	0.44	ug/Kg	☼	02/09/17 08:50	02/14/17 12:19	1
1,3-Dichloropropene, Total	<1.7		1.7	0.59	ug/Kg	☼	02/09/17 08:50	02/14/17 12:19	1
Ethylbenzene	<1.7		1.7	0.81	ug/Kg	☼	02/09/17 08:50	02/14/17 12:19	1
2-Hexanone	<4.2		4.2	1.3	ug/Kg	☼	02/09/17 08:50	02/14/17 12:19	1
Methylene Chloride	<4.2		4.2	1.7	ug/Kg	☼	02/09/17 08:50	02/14/17 12:19	1
Methyl Ethyl Ketone	<4.2		4.2	1.9	ug/Kg	☼	02/09/17 08:50	02/14/17 12:19	1
methyl isobutyl ketone	<4.2		4.2	1.2	ug/Kg	☼	02/09/17 08:50	02/14/17 12:19	1
Methyl tert-butyl ether	<1.7		1.7	0.50	ug/Kg	☼	02/09/17 08:50	02/14/17 12:19	1
Styrene	<1.7		1.7	0.51	ug/Kg	☼	02/09/17 08:50	02/14/17 12:19	1
1,1,2,2-Tetrachloroethane	<1.7		1.7	0.54	ug/Kg	☼	02/09/17 08:50	02/14/17 12:19	1
Tetrachloroethene	<1.7		1.7	0.57	ug/Kg	☼	02/09/17 08:50	02/14/17 12:19	1
Toluene	<1.7		1.7	0.43	ug/Kg	☼	02/09/17 08:50	02/14/17 12:19	1
trans-1,2-Dichloroethene	<1.7		1.7	0.75	ug/Kg	☼	02/09/17 08:50	02/14/17 12:19	1
trans-1,3-Dichloropropene	<1.7	*	1.7	0.59	ug/Kg	☼	02/09/17 08:50	02/14/17 12:19	1
1,1,1-Trichloroethane	<1.7		1.7	0.57	ug/Kg	☼	02/09/17 08:50	02/14/17 12:19	1
1,1,2-Trichloroethane	<1.7		1.7	0.72	ug/Kg	☼	02/09/17 08:50	02/14/17 12:19	1
Trichloroethene	<1.7		1.7	0.57	ug/Kg	☼	02/09/17 08:50	02/14/17 12:19	1
Vinyl chloride	<1.7		1.7	0.75	ug/Kg	☼	02/09/17 08:50	02/14/17 12:19	1
Xylenes, Total	<3.4		3.4	0.54	ug/Kg	☼	02/09/17 08:50	02/14/17 12:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 120*	*02/09/17 08:50*	*02/14/17 12:19*	*1*
Dibromofluoromethane	*102*		*75 - 120*	*02/09/17 08:50*	*02/14/17 12:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*69 - 134*	*02/09/17 08:50*	*02/14/17 12:19*	*1*
Toluene-d8 (Surr)	*101*		*75 - 123*	*02/09/17 08:50*	*02/14/17 12:19*	*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	☼	02/13/17 07:37	02/14/17 11:26	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	02/13/17 07:37	02/14/17 11:26	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	02/13/17 07:37	02/14/17 11:26	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	02/13/17 07:37	02/14/17 11:26	1
2,2'-oxybis[1-chloropropane]	<190		190	45	ug/Kg	☼	02/13/17 07:37	02/14/17 11:26	1

Client Sample ID: A44-4(0-1)-020817
Date Collected: 02/08/17 09:45
Date Received: 02/08/17 17:00

Lab Sample ID: 500-123629-11
Matrix: Solid
Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<380		380	88	ug/Kg	☼	02/13/17 07:37	02/14/17 11:26	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	02/13/17 07:37	02/14/17 11:26	1
2,4-Dichlorophenol	<380		380	92	ug/Kg	☼	02/13/17 07:37	02/14/17 11:26	1
2,4-Dimethylphenol	<380		380	150	ug/Kg	☼	02/13/17 07:37	02/14/17 11:26	1
2,4-Dinitrophenol	<780		780	680	ug/Kg	☼	02/13/17 07:37	02/14/17 11:26	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	02/13/17 07:37	02/14/17 11:26	1
2,6-Dinitrotoluene	<190		190	76	ug/Kg	☼	02/13/17 07:37	02/14/17 11:26	1
2-Chloronaphthalene	<190		190	43	ug/Kg	☼	02/13/17 07:37	02/14/17 11:26	1
2-Chlorophenol	<190		190	66	ug/Kg	☼	02/13/17 07:37	02/14/17 11:26	1
2-Methylnaphthalene	<78		78	7.1	ug/Kg	☼	02/13/17 07:37	02/14/17 11:26	1
2-Methylphenol	<190		190	62	ug/Kg	☼	02/13/17 07:37	02/14/17 11:26	1
2-Nitroaniline	<190		190	52	ug/Kg	☼	02/13/17 07:37	02/14/17 11:26	1
2-Nitrophenol	<380		380	91	ug/Kg	☼	02/13/17 07:37	02/14/17 11:26	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	☼	02/13/17 07:37	02/14/17 11:26	1
3,3'-Dichlorobenzidine	<190		190	54	ug/Kg	☼	02/13/17 07:37	02/14/17 11:26	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	02/13/17 07:37	02/14/17 11:26	1
4,6-Dinitro-2-methylphenol	<780		780	310	ug/Kg	☼	02/13/17 07:37	02/14/17 11:26	1
4-Bromophenyl phenyl ether	<190		190	51	ug/Kg	☼	02/13/17 07:37	02/14/17 11:26	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	02/13/17 07:37	02/14/17 11:26	1
4-Chloroaniline	<780		780	180	ug/Kg	☼	02/13/17 07:37	02/14/17 11:26	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	02/13/17 07:37	02/14/17 11:26	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	02/13/17 07:37	02/14/17 11:26	1
4-Nitrophenol	<780		780	370	ug/Kg	☼	02/13/17 07:37	02/14/17 11:26	1
Acenaphthene	<38		38	6.9	ug/Kg	☼	02/13/17 07:37	02/14/17 11:26	1
Acenaphthylene	<38		38	5.1	ug/Kg	☼	02/13/17 07:37	02/14/17 11:26	1
Anthracene	<38		38	6.4	ug/Kg	☼	02/13/17 07:37	02/14/17 11:26	1
Benzo[a]anthracene	<38		38	5.2	ug/Kg	☼	02/13/17 07:37	02/14/17 11:26	1
Benzo[a]pyrene	<38		38	7.5	ug/Kg	☼	02/13/17 07:37	02/14/17 11:26	1
Benzo[b]fluoranthene	**13**	**J**	38	8.3	ug/Kg	☼	02/13/17 07:37	02/14/17 11:26	1
Benzo[g,h,i]perylene	<38		38	12	ug/Kg	☼	02/13/17 07:37	02/14/17 11:26	1
Benzo[k]fluoranthene	<38		38	11	ug/Kg	☼	02/13/17 07:37	02/14/17 11:26	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	02/13/17 07:37	02/14/17 11:26	1
Bis(2-chloroethyl)ether	<190		190	58	ug/Kg	☼	02/13/17 07:37	02/14/17 11:26	1
Bis(2-ethylhexyl) phthalate	<190		190	70	ug/Kg	☼	02/13/17 07:37	02/14/17 11:26	1
Butyl benzyl phthalate	<190		190	73	ug/Kg	☼	02/13/17 07:37	02/14/17 11:26	1
Carbazole	<190		190	96	ug/Kg	☼	02/13/17 07:37	02/14/17 11:26	1
Chrysene	<38		38	11	ug/Kg	☼	02/13/17 07:37	02/14/17 11:26	1
Dibenz(a,h)anthracene	<38		38	7.5	ug/Kg	☼	02/13/17 07:37	02/14/17 11:26	1
Dibenzofuran	<190		190	45	ug/Kg	☼	02/13/17 07:37	02/14/17 11:26	1
Diethyl phthalate	<190		190	65	ug/Kg	☼	02/13/17 07:37	02/14/17 11:26	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	02/13/17 07:37	02/14/17 11:26	1
Di-n-butyl phthalate	<190		190	59	ug/Kg	☼	02/13/17 07:37	02/14/17 11:26	1
Di-n-octyl phthalate	<190		190	63	ug/Kg	☼	02/13/17 07:37	02/14/17 11:26	1
Fluoranthene	**11**	**J**	38	7.1	ug/Kg	☼	02/13/17 07:37	02/14/17 11:26	1
Fluorene	<38		38	5.4	ug/Kg	☼	02/13/17 07:37	02/14/17 11:26	1
Hexachlorobenzene	<78		78	8.9	ug/Kg	☼	02/13/17 07:37	02/14/17 11:26	1
Hexachlorobutadiene	<190		190	61	ug/Kg	☼	02/13/17 07:37	02/14/17 11:26	1
Hexachlorocyclopentadiene	<780		780	220	ug/Kg	☼	02/13/17 07:37	02/14/17 11:26	1
Hexachloroethane	<190		190	59	ug/Kg	☼	02/13/17 07:37	02/14/17 11:26	1

Client Sample ID: A44-4(0-1)-020817
Date Collected: 02/08/17 09:45
Date Received: 02/08/17 17:00

Lab Sample ID: 500-123629-11
Matrix: Solid
Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<38		38	10	ug/Kg	☼	02/13/17 07:37	02/14/17 11:26	1
Isophorone	<190		190	43	ug/Kg	☼	02/13/17 07:37	02/14/17 11:26	1
Naphthalene	<38		38	5.9	ug/Kg	☼	02/13/17 07:37	02/14/17 11:26	1
Nitrobenzene	<38		38	9.6	ug/Kg	☼	02/13/17 07:37	02/14/17 11:26	1
N-Nitrosodi-n-propylamine	<78		78	47	ug/Kg	☼	02/13/17 07:37	02/14/17 11:26	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	02/13/17 07:37	02/14/17 11:26	1
Pentachlorophenol	<780		780	620	ug/Kg	☼	02/13/17 07:37	02/14/17 11:26	1
Phenanthrene	**5.7**	**J**	38	5.4	ug/Kg	☼	02/13/17 07:37	02/14/17 11:26	1
Phenol	<190		190	86	ug/Kg	☼	02/13/17 07:37	02/14/17 11:26	1
Pyrene	**10**	**J**	38	7.7	ug/Kg	☼	02/13/17 07:37	02/14/17 11:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*75*		*25 - 130*	*02/13/17 07:37*	*02/14/17 11:26*	*1*
2-Fluorobiphenyl	*107*		*42 - 115*	*02/13/17 07:37*	*02/14/17 11:26*	*1*
2-Fluorophenol	*102*		*40 - 130*	*02/13/17 07:37*	*02/14/17 11:26*	*1*
Nitrobenzene-d5	*98*		*33 - 124*	*02/13/17 07:37*	*02/14/17 11:26*	*1*
Phenol-d5	*96*		*36 - 123*	*02/13/17 07:37*	*02/14/17 11:26*	*1*
Terphenyl-d14	*106*		*25 - 150*	*02/13/17 07:37*	*02/14/17 11:26*	*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		02/14/17 08:00	02/14/17 16:45	1
Barium	**0.26**	**J**	0.50	0.050	mg/L		02/14/17 08:00	02/14/17 16:45	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/14/17 08:00	02/14/17 16:45	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/14/17 08:00	02/14/17 16:45	1
Chromium	<0.025		0.025	0.010	mg/L		02/14/17 08:00	02/14/17 16:45	1
Cobalt	<0.025		0.025	0.010	mg/L		02/14/17 08:00	02/14/17 16:45	1
Copper	<0.025		0.025	0.010	mg/L		02/14/17 08:00	02/14/17 16:45	1
Iron	<0.40		0.40	0.20	mg/L		02/14/17 08:00	02/14/17 16:45	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/14/17 08:00	02/14/17 16:45	1
Manganese	**0.096**		0.025	0.010	mg/L		02/14/17 08:00	02/14/17 16:45	1
Nickel	<0.025		0.025	0.010	mg/L		02/14/17 08:00	02/14/17 16:45	1
Selenium	<0.050		0.050	0.020	mg/L		02/14/17 08:00	02/14/17 16:45	1
Silver	<0.025		0.025	0.010	mg/L		02/14/17 08:00	02/14/17 16:45	1
Zinc	<0.50		0.50	0.020	mg/L		02/14/17 08:00	02/14/17 16:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.088**		0.050	0.010	mg/L		02/14/17 08:00	02/14/17 18:05	1
Barium	**0.48**	**J**	0.50	0.050	mg/L		02/14/17 08:00	02/14/17 18:05	1
Beryllium	**0.0075**		0.0040	0.0040	mg/L		02/14/17 08:00	02/14/17 18:05	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/14/17 08:00	02/14/17 18:05	1
Chromium	**0.16**		0.025	0.010	mg/L		02/14/17 08:00	02/14/17 18:05	1
Cobalt	**0.066**		0.025	0.010	mg/L		02/14/17 08:00	02/14/17 18:05	1
Copper	**0.26**		0.025	0.010	mg/L		02/14/17 08:00	02/14/17 18:05	1
Iron	**200**		0.40	0.20	mg/L		02/14/17 08:00	02/14/17 18:05	1
Lead	**0.19**		0.038	0.038	mg/L		02/14/17 08:00	02/15/17 13:13	5
Manganese	**1.9**		0.025	0.010	mg/L		02/14/17 08:00	02/14/17 18:05	1
Nickel	**0.28**		0.025	0.010	mg/L		02/14/17 08:00	02/14/17 18:05	1
Selenium	<0.050		0.050	0.020	mg/L		02/14/17 08:00	02/14/17 18:05	1

Client Sample ID: A44-4(0-1)-020817
Date Collected: 02/08/17 09:45
Date Received: 02/08/17 17:00

Lab Sample ID: 500-123629-11
Matrix: Solid
Percent Solids: 83.6

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		02/14/17 08:00	02/14/17 18:05	1
Zinc	**0.63**		0.50	0.020	mg/L		02/14/17 08:00	02/14/17 18:05	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.26**	**J**	1.1	0.23	mg/Kg	☼	02/11/17 10:45	02/13/17 21:50	1
Arsenic	**9.7**		0.56	0.26	mg/Kg	☼	02/11/17 10:45	02/13/17 21:50	1
Barium	**42**		0.56	0.10	mg/Kg	☼	02/11/17 10:45	02/13/17 21:50	1
Beryllium	**0.59**		0.22	0.048	mg/Kg	☼	02/11/17 10:45	02/13/17 21:50	1
Cadmium	<0.11		0.11	0.032	mg/Kg	☼	02/11/17 10:45	02/13/17 21:50	1
Calcium	**2900**	**B**	11	3.6	mg/Kg	☼	02/11/17 10:45	02/13/17 21:50	1
Chromium	**14**		0.56	0.096	mg/Kg	☼	02/11/17 10:45	02/13/17 21:50	1
Cobalt	**12**		0.28	0.063	mg/Kg	☼	02/11/17 10:45	02/13/17 21:50	1
Copper	**24**		0.56	0.12	mg/Kg	☼	02/11/17 10:45	02/13/17 21:50	1
Iron	**19000**	**B**	11	4.3	mg/Kg	☼	02/11/17 10:45	02/13/17 21:50	1
Lead	**41**		0.28	0.14	mg/Kg	☼	02/11/17 10:45	02/13/17 21:50	1
Magnesium	**3800**	**B**	5.6	2.3	mg/Kg	☼	02/11/17 10:45	02/13/17 21:50	1
Manganese	**380**		0.56	0.11	mg/Kg	☼	02/11/17 10:45	02/13/17 21:50	1
Nickel	**30**		0.56	0.15	mg/Kg	☼	02/11/17 10:45	02/13/17 21:50	1
Potassium	**1000**		28	4.6	mg/Kg	☼	02/11/17 10:45	02/13/17 21:50	1
Selenium	<0.56		0.56	0.28	mg/Kg	☼	02/11/17 10:45	02/13/17 21:50	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	02/11/17 10:45	02/13/17 21:50	1
Sodium	**350**		56	7.4	mg/Kg	☼	02/11/17 10:45	02/13/17 21:50	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	02/11/17 10:45	02/13/17 21:50	1
Vanadium	**16**		0.28	0.082	mg/Kg	☼	02/11/17 10:45	02/13/17 21:50	1
Zinc	**71**		1.1	0.35	mg/Kg	☼	02/11/17 10:45	02/13/17 21:50	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 13:12	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		02/13/17 11:45	02/14/17 10:53	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**36**		18	9.6	ug/Kg	☼	02/10/17 16:45	02/13/17 10:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.2**		0.2	0.2	SU			02/13/17 13:21	1

Client Sample ID: A44-6(0-1)-020817
Date Collected: 02/08/17 10:10
Date Received: 02/08/17 17:00

Lab Sample ID: 500-123629-13
Matrix: Solid
Percent Solids: 81.0

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	☼	02/09/17 08:50	02/14/17 13:10	1
Benzene	<1.8		1.8	0.46	ug/Kg	☼	02/09/17 08:50	02/14/17 13:10	1
Bromodichloromethane	<1.8		1.8	0.36	ug/Kg	☼	02/09/17 08:50	02/14/17 13:10	1
Bromoform	<1.8		1.8	0.52	ug/Kg	☼	02/09/17 08:50	02/14/17 13:10	1
Bromomethane	<4.5		4.5	1.7	ug/Kg	☼	02/09/17 08:50	02/14/17 13:10	1
Carbon disulfide	<4.5		4.5	0.93	ug/Kg	☼	02/09/17 08:50	02/14/17 13:10	1
Carbon tetrachloride	<1.8		1.8	0.52	ug/Kg	☼	02/09/17 08:50	02/14/17 13:10	1
Chlorobenzene	<1.8		1.8	0.66	ug/Kg	☼	02/09/17 08:50	02/14/17 13:10	1
Chloroethane	<4.5		4.5	1.3	ug/Kg	☼	02/09/17 08:50	02/14/17 13:10	1
Chloroform	<1.8		1.8	0.62	ug/Kg	☼	02/09/17 08:50	02/14/17 13:10	1
Chloromethane	<4.5		4.5	1.8	ug/Kg	☼	02/09/17 08:50	02/14/17 13:10	1
cis-1,2-Dichloroethene	<1.8		1.8	0.50	ug/Kg	☼	02/09/17 08:50	02/14/17 13:10	1
cis-1,3-Dichloropropene	<1.8		1.8	0.54	ug/Kg	☼	02/09/17 08:50	02/14/17 13:10	1
Dibromochloromethane	<1.8	*	1.8	0.58	ug/Kg	☼	02/09/17 08:50	02/14/17 13:10	1
1,1-Dichloroethane	<1.8		1.8	0.61	ug/Kg	☼	02/09/17 08:50	02/14/17 13:10	1
1,2-Dichloroethane	<4.5		4.5	1.4	ug/Kg	☼	02/09/17 08:50	02/14/17 13:10	1
1,1-Dichloroethene	<1.8		1.8	0.62	ug/Kg	☼	02/09/17 08:50	02/14/17 13:10	1
1,2-Dichloropropane	<1.8		1.8	0.46	ug/Kg	☼	02/09/17 08:50	02/14/17 13:10	1
1,3-Dichloropropene, Total	<1.8		1.8	0.63	ug/Kg	☼	02/09/17 08:50	02/14/17 13:10	1
Ethylbenzene	<1.8		1.8	0.86	ug/Kg	☼	02/09/17 08:50	02/14/17 13:10	1
2-Hexanone	<4.5		4.5	1.4	ug/Kg	☼	02/09/17 08:50	02/14/17 13:10	1
Methylene Chloride	<4.5		4.5	1.8	ug/Kg	☼	02/09/17 08:50	02/14/17 13:10	1
Methyl Ethyl Ketone	<4.5		4.5	2.0	ug/Kg	☼	02/09/17 08:50	02/14/17 13:10	1
methyl isobutyl ketone	<4.5		4.5	1.3	ug/Kg	☼	02/09/17 08:50	02/14/17 13:10	1
Methyl tert-butyl ether	<1.8		1.8	0.52	ug/Kg	☼	02/09/17 08:50	02/14/17 13:10	1
Styrene	<1.8		1.8	0.54	ug/Kg	☼	02/09/17 08:50	02/14/17 13:10	1
1,1,2,2-Tetrachloroethane	<1.8		1.8	0.57	ug/Kg	☼	02/09/17 08:50	02/14/17 13:10	1
Tetrachloroethene	<1.8		1.8	0.61	ug/Kg	☼	02/09/17 08:50	02/14/17 13:10	1
Toluene	<1.8		1.8	0.45	ug/Kg	☼	02/09/17 08:50	02/14/17 13:10	1
trans-1,2-Dichloroethene	<1.8		1.8	0.79	ug/Kg	☼	02/09/17 08:50	02/14/17 13:10	1
trans-1,3-Dichloropropene	<1.8	*	1.8	0.63	ug/Kg	☼	02/09/17 08:50	02/14/17 13:10	1
1,1,1-Trichloroethane	<1.8		1.8	0.60	ug/Kg	☼	02/09/17 08:50	02/14/17 13:10	1
1,1,2-Trichloroethane	<1.8		1.8	0.77	ug/Kg	☼	02/09/17 08:50	02/14/17 13:10	1
Trichloroethene	<1.8		1.8	0.60	ug/Kg	☼	02/09/17 08:50	02/14/17 13:10	1
Vinyl chloride	<1.8		1.8	0.79	ug/Kg	☼	02/09/17 08:50	02/14/17 13:10	1
Xylenes, Total	<3.6		3.6	0.57	ug/Kg	☼	02/09/17 08:50	02/14/17 13:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 120*	*02/09/17 08:50*	*02/14/17 13:10*	*1*
Dibromofluoromethane	*105*		*75 - 120*	*02/09/17 08:50*	*02/14/17 13:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*69 - 134*	*02/09/17 08:50*	*02/14/17 13:10*	*1*
Toluene-d8 (Surr)	*101*		*75 - 123*	*02/09/17 08:50*	*02/14/17 13:10*	*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	☼	02/13/17 07:37	02/15/17 18:08	1
1,2-Dichlorobenzene	<200		200	48	ug/Kg	☼	02/13/17 07:37	02/15/17 18:08	1
1,3-Dichlorobenzene	<200		200	45	ug/Kg	☼	02/13/17 07:37	02/15/17 18:08	1
1,4-Dichlorobenzene	<200		200	51	ug/Kg	☼	02/13/17 07:37	02/15/17 18:08	1
2,2'-oxybis[1-chloropropane]	<200		200	46	ug/Kg	☼	02/13/17 07:37	02/15/17 18:08	1

Client Sample ID: A44-6(0-1)-020817
Date Collected: 02/08/17 10:10
Date Received: 02/08/17 17:00

Lab Sample ID: 500-123629-13
Matrix: Solid
Percent Solids: 81.0

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	☼	02/13/17 07:37	02/15/17 18:08	1
2,4,6-Trichlorophenol	<400		400	140	ug/Kg	☼	02/13/17 07:37	02/15/17 18:08	1
2,4-Dichlorophenol	<400		400	95	ug/Kg	☼	02/13/17 07:37	02/15/17 18:08	1
2,4-Dimethylphenol	<400		400	150	ug/Kg	☼	02/13/17 07:37	02/15/17 18:08	1
2,4-Dinitrophenol	<810		810	710	ug/Kg	☼	02/13/17 07:37	02/15/17 18:08	1
2,4-Dinitrotoluene	<200		200	64	ug/Kg	☼	02/13/17 07:37	02/15/17 18:08	1
2,6-Dinitrotoluene	<200		200	79	ug/Kg	☼	02/13/17 07:37	02/15/17 18:08	1
2-Chloronaphthalene	<200		200	44	ug/Kg	☼	02/13/17 07:37	02/15/17 18:08	1
2-Chlorophenol	<200		200	68	ug/Kg	☼	02/13/17 07:37	02/15/17 18:08	1
2-Methylnaphthalene	**17**	**J**	81	7.4	ug/Kg	☼	02/13/17 07:37	02/15/17 18:08	1
2-Methylphenol	<200		200	64	ug/Kg	☼	02/13/17 07:37	02/15/17 18:08	1
2-Nitroaniline	<200		200	54	ug/Kg	☼	02/13/17 07:37	02/15/17 18:08	1
2-Nitrophenol	<400		400	95	ug/Kg	☼	02/13/17 07:37	02/15/17 18:08	1
3 & 4 Methylphenol	<200		200	67	ug/Kg	☼	02/13/17 07:37	02/15/17 18:08	1
3,3'-Dichlorobenzidine	<200		200	56	ug/Kg	☼	02/13/17 07:37	02/15/17 18:08	1
3-Nitroaniline	<400		400	120	ug/Kg	☼	02/13/17 07:37	02/15/17 18:08	1
4,6-Dinitro-2-methylphenol	<810		810	320	ug/Kg	☼	02/13/17 07:37	02/15/17 18:08	1
4-Bromophenyl phenyl ether	<200		200	53	ug/Kg	☼	02/13/17 07:37	02/15/17 18:08	1
4-Chloro-3-methylphenol	<400		400	140	ug/Kg	☼	02/13/17 07:37	02/15/17 18:08	1
4-Chloroaniline	<810		810	190	ug/Kg	☼	02/13/17 07:37	02/15/17 18:08	1
4-Chlorophenyl phenyl ether	<200		200	47	ug/Kg	☼	02/13/17 07:37	02/15/17 18:08	1
4-Nitroaniline	<400		400	170	ug/Kg	☼	02/13/17 07:37	02/15/17 18:08	1
4-Nitrophenol	<810		810	380	ug/Kg	☼	02/13/17 07:37	02/15/17 18:08	1
Acenaphthene	**7.3**	**J**	40	7.2	ug/Kg	☼	02/13/17 07:37	02/15/17 18:08	1
Acenaphthylene	<40		40	5.3	ug/Kg	☼	02/13/17 07:37	02/15/17 18:08	1
Anthracene	**20**	**J**	40	6.7	ug/Kg	☼	02/13/17 07:37	02/15/17 18:08	1
Benzo[a]anthracene	**85**		40	5.4	ug/Kg	☼	02/13/17 07:37	02/15/17 18:08	1
Benzo[a]pyrene	**230**	*****	40	7.8	ug/Kg	☼	02/13/17 07:37	02/15/17 18:08	1
Benzo[b]fluoranthene	**280**	*****	40	8.7	ug/Kg	☼	02/13/17 07:37	02/15/17 18:08	1
Benzo[g,h,i]perylene	**100**	*****	40	13	ug/Kg	☼	02/13/17 07:37	02/15/17 18:08	1
Benzo[k]fluoranthene	**110**	*****	40	12	ug/Kg	☼	02/13/17 07:37	02/15/17 18:08	1
Bis(2-chloroethoxy)methane	<200		200	41	ug/Kg	☼	02/13/17 07:37	02/15/17 18:08	1
Bis(2-chloroethyl)ether	<200		200	60	ug/Kg	☼	02/13/17 07:37	02/15/17 18:08	1
Bis(2-ethylhexyl) phthalate	<200		200	73	ug/Kg	☼	02/13/17 07:37	02/15/17 18:08	1
Butyl benzyl phthalate	<200		200	76	ug/Kg	☼	02/13/17 07:37	02/15/17 18:08	1
Carbazole	<200		200	100	ug/Kg	☼	02/13/17 07:37	02/15/17 18:08	1
Chrysene	**96**		40	11	ug/Kg	☼	02/13/17 07:37	02/15/17 18:08	1
Dibenz(a,h)anthracene	<40	*	40	7.8	ug/Kg	☼	02/13/17 07:37	02/15/17 18:08	1
Dibenzofuran	<200		200	47	ug/Kg	☼	02/13/17 07:37	02/15/17 18:08	1
Diethyl phthalate	<200		200	68	ug/Kg	☼	02/13/17 07:37	02/15/17 18:08	1
Dimethyl phthalate	<200		200	52	ug/Kg	☼	02/13/17 07:37	02/15/17 18:08	1
Di-n-butyl phthalate	<200		200	61	ug/Kg	☼	02/13/17 07:37	02/15/17 18:08	1
Di-n-octyl phthalate	<200		200	65	ug/Kg	☼	02/13/17 07:37	02/15/17 18:08	1
Fluoranthene	**170**		40	7.4	ug/Kg	☼	02/13/17 07:37	02/15/17 18:08	1
Fluorene	**10**	**J**	40	5.6	ug/Kg	☼	02/13/17 07:37	02/15/17 18:08	1
Hexachlorobenzene	<81		81	9.3	ug/Kg	☼	02/13/17 07:37	02/15/17 18:08	1
Hexachlorobutadiene	<200		200	63	ug/Kg	☼	02/13/17 07:37	02/15/17 18:08	1
Hexachlorocyclopentadiene	<810		810	230	ug/Kg	☼	02/13/17 07:37	02/15/17 18:08	1
Hexachloroethane	<200		200	61	ug/Kg	☼	02/13/17 07:37	02/15/17 18:08	1

Client Sample ID: A44-6(0-1)-020817
Date Collected: 02/08/17 10:10
Date Received: 02/08/17 17:00

Lab Sample ID: 500-123629-13
Matrix: Solid
Percent Solids: 81.0

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	**120**	*	40	10	ug/Kg	☼	02/13/17 07:37	02/15/17 18:08	1
Isophorone	<200		200	45	ug/Kg	☼	02/13/17 07:37	02/15/17 18:08	1
Naphthalene	**11**	J	40	6.2	ug/Kg	☼	02/13/17 07:37	02/15/17 18:08	1
Nitrobenzene	<40		40	10	ug/Kg	☼	02/13/17 07:37	02/15/17 18:08	1
N-Nitrosodi-n-propylamine	<81		81	49	ug/Kg	☼	02/13/17 07:37	02/15/17 18:08	1
N-Nitrosodiphenylamine	<200		200	47	ug/Kg	☼	02/13/17 07:37	02/15/17 18:08	1
Pentachlorophenol	<810		810	640	ug/Kg	☼	02/13/17 07:37	02/15/17 18:08	1
Phenanthrene	**110**		40	5.6	ug/Kg	☼	02/13/17 07:37	02/15/17 18:08	1
Phenol	**310**		200	89	ug/Kg	☼	02/13/17 07:37	02/15/17 18:08	1
Pyrene	**230**		40	8.0	ug/Kg	☼	02/13/17 07:37	02/15/17 18:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*87*		*25 - 130*	*02/13/17 07:37*	*02/15/17 18:08*	*1*
2-Fluorobiphenyl	*102*		*42 - 115*	*02/13/17 07:37*	*02/15/17 18:08*	*1*
2-Fluorophenol	*86*		*40 - 130*	*02/13/17 07:37*	*02/15/17 18:08*	*1*
Nitrobenzene-d5	*86*		*33 - 124*	*02/13/17 07:37*	*02/15/17 18:08*	*1*
Phenol-d5	*86*		*36 - 123*	*02/13/17 07:37*	*02/15/17 18:08*	*1*
Terphenyl-d14	*176*	*X*	*25 - 150*	*02/13/17 07:37*	*02/15/17 18:08*	*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		02/14/17 08:00	02/14/17 16:57	1
Barium	**0.28**	J	0.50	0.050	mg/L		02/14/17 08:00	02/14/17 16:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/14/17 08:00	02/14/17 16:57	1
Cadmium	**0.0024**	J	0.0050	0.0020	mg/L		02/14/17 08:00	02/14/17 16:57	1
Chromium	<0.025		0.025	0.010	mg/L		02/14/17 08:00	02/14/17 16:57	1
Cobalt	<0.025		0.025	0.010	mg/L		02/14/17 08:00	02/14/17 16:57	1
Copper	**0.022**	J	0.025	0.010	mg/L		02/14/17 08:00	02/14/17 16:57	1
Iron	**0.39**	J	0.40	0.20	mg/L		02/14/17 08:00	02/14/17 16:57	1
Lead	**0.011**		0.0075	0.0075	mg/L		02/14/17 08:00	02/14/17 16:57	1
Manganese	**0.29**		0.025	0.010	mg/L		02/14/17 08:00	02/14/17 16:57	1
Nickel	<0.025		0.025	0.010	mg/L		02/14/17 08:00	02/14/17 16:57	1
Selenium	<0.050		0.050	0.020	mg/L		02/14/17 08:00	02/14/17 16:57	1
Silver	<0.025		0.025	0.010	mg/L		02/14/17 08:00	02/14/17 16:57	1
Zinc	**0.096**	J	0.50	0.020	mg/L		02/14/17 08:00	02/14/17 16:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.030**	J	0.050	0.010	mg/L		02/14/17 08:00	02/14/17 18:18	1
Barium	**0.27**	J	0.50	0.050	mg/L		02/14/17 08:00	02/14/17 18:18	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/14/17 08:00	02/14/17 18:18	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/14/17 08:00	02/14/17 18:18	1
Chromium	**0.086**		0.025	0.010	mg/L		02/14/17 08:00	02/14/17 18:18	1
Cobalt	**0.029**		0.025	0.010	mg/L		02/14/17 08:00	02/14/17 18:18	1
Copper	**0.11**		0.025	0.010	mg/L		02/14/17 08:00	02/14/17 18:18	1
Iron	**86**		0.40	0.20	mg/L		02/14/17 08:00	02/14/17 18:18	1
Lead	**0.20**		0.0075	0.0075	mg/L		02/14/17 08:00	02/14/17 18:18	1
Manganese	**0.98**		0.025	0.010	mg/L		02/14/17 08:00	02/14/17 18:18	1
Nickel	**0.095**		0.025	0.010	mg/L		02/14/17 08:00	02/14/17 18:18	1
Selenium	<0.050		0.050	0.020	mg/L		02/14/17 08:00	02/14/17 18:18	1

Client Sample ID: A44-6(0-1)-020817
Date Collected: 02/08/17 10:10
Date Received: 02/08/17 17:00

Lab Sample ID: 500-123629-13
Matrix: Solid
Percent Solids: 81.0

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		02/14/17 08:00	02/14/17 18:18	1
Zinc	**0.43**	**J**	0.50	0.020	mg/L		02/14/17 08:00	02/14/17 18:18	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.33**	**J**	1.2	0.24	mg/Kg	☼	02/11/17 10:45	02/13/17 21:58	1
Arsenic	**7.3**		0.59	0.27	mg/Kg	☼	02/11/17 10:45	02/13/17 21:58	1
Barium	**54**		0.59	0.11	mg/Kg	☼	02/11/17 10:45	02/13/17 21:58	1
Beryllium	**0.53**		0.23	0.051	mg/Kg	☼	02/11/17 10:45	02/13/17 21:58	1
Cadmium	**0.15**		0.12	0.034	mg/Kg	☼	02/11/17 10:45	02/13/17 21:58	1
Calcium	**6200**	**B**	12	3.8	mg/Kg	☼	02/11/17 10:45	02/13/17 21:58	1
Chromium	**15**		0.59	0.10	mg/Kg	☼	02/11/17 10:45	02/13/17 21:58	1
Cobalt	**9.1**		0.29	0.066	mg/Kg	☼	02/11/17 10:45	02/13/17 21:58	1
Copper	**21**		0.59	0.13	mg/Kg	☼	02/11/17 10:45	02/13/17 21:58	1
Iron	**16000**	**B**	12	4.5	mg/Kg	☼	02/11/17 10:45	02/13/17 21:58	1
Lead	**84**		0.29	0.15	mg/Kg	☼	02/11/17 10:45	02/13/17 21:58	1
Magnesium	**4600**	**B**	5.9	2.4	mg/Kg	☼	02/11/17 10:45	02/13/17 21:58	1
Manganese	**460**		0.59	0.12	mg/Kg	☼	02/11/17 10:45	02/13/17 21:58	1
Nickel	**19**		0.59	0.16	mg/Kg	☼	02/11/17 10:45	02/13/17 21:58	1
Potassium	**1100**		29	4.8	mg/Kg	☼	02/11/17 10:45	02/13/17 21:58	1
Selenium	**0.73**		0.59	0.29	mg/Kg	☼	02/11/17 10:45	02/13/17 21:58	1
Silver	<0.29		0.29	0.069	mg/Kg	☼	02/11/17 10:45	02/13/17 21:58	1
Sodium	**360**		59	7.7	mg/Kg	☼	02/11/17 10:45	02/13/17 21:58	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	02/11/17 10:45	02/13/17 21:58	1
Vanadium	**17**		0.29	0.085	mg/Kg	☼	02/11/17 10:45	02/13/17 21:58	1
Zinc	**110**		1.2	0.37	mg/Kg	☼	02/11/17 10:45	02/13/17 21:58	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		02/13/17 11:45	02/14/17 13:15	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 11:45	02/14/17 10:56	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**47**		20	10	ug/Kg	☼	02/10/17 16:45	02/13/17 10:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.4**		0.2	0.2	SU			02/13/17 13:32	1

Client Sample ID: A44-8(0-1)-020817
Date Collected: 02/08/17 10:35
Date Received: 02/08/17 17:00

Lab Sample ID: 500-123629-15
Matrix: Solid
Percent Solids: 72.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	10	ug/Kg	☼	02/09/17 08:50	02/14/17 14:01	1
Benzene	<2.3		2.3	0.59	ug/Kg	☼	02/09/17 08:50	02/14/17 14:01	1
Bromodichloromethane	<2.3		2.3	0.47	ug/Kg	☼	02/09/17 08:50	02/14/17 14:01	1
Bromoform	<2.3		2.3	0.67	ug/Kg	☼	02/09/17 08:50	02/14/17 14:01	1
Bromomethane	<5.7		5.7	2.2	ug/Kg	☼	02/09/17 08:50	02/14/17 14:01	1
Carbon disulfide	<5.7		5.7	1.2	ug/Kg	☼	02/09/17 08:50	02/14/17 14:01	1
Carbon tetrachloride	<2.3		2.3	0.67	ug/Kg	☼	02/09/17 08:50	02/14/17 14:01	1
Chlorobenzene	<2.3		2.3	0.85	ug/Kg	☼	02/09/17 08:50	02/14/17 14:01	1
Chloroethane	<5.7		5.7	1.7	ug/Kg	☼	02/09/17 08:50	02/14/17 14:01	1
Chloroform	<2.3		2.3	0.80	ug/Kg	☼	02/09/17 08:50	02/14/17 14:01	1
Chloromethane	<5.7		5.7	2.3	ug/Kg	☼	02/09/17 08:50	02/14/17 14:01	1
cis-1,2-Dichloroethene	<2.3		2.3	0.64	ug/Kg	☼	02/09/17 08:50	02/14/17 14:01	1
cis-1,3-Dichloropropene	<2.3		2.3	0.69	ug/Kg	☼	02/09/17 08:50	02/14/17 14:01	1
Dibromochloromethane	<2.3	*	2.3	0.75	ug/Kg	☼	02/09/17 08:50	02/14/17 14:01	1
1,1-Dichloroethane	<2.3		2.3	0.79	ug/Kg	☼	02/09/17 08:50	02/14/17 14:01	1
1,2-Dichloroethane	<5.7		5.7	1.8	ug/Kg	☼	02/09/17 08:50	02/14/17 14:01	1
1,1-Dichloroethene	<2.3		2.3	0.79	ug/Kg	☼	02/09/17 08:50	02/14/17 14:01	1
1,2-Dichloropropane	<2.3		2.3	0.59	ug/Kg	☼	02/09/17 08:50	02/14/17 14:01	1
1,3-Dichloropropene, Total	<2.3		2.3	0.81	ug/Kg	☼	02/09/17 08:50	02/14/17 14:01	1
Ethylbenzene	<2.3		2.3	1.1	ug/Kg	☼	02/09/17 08:50	02/14/17 14:01	1
2-Hexanone	<5.7		5.7	1.8	ug/Kg	☼	02/09/17 08:50	02/14/17 14:01	1
Methylene Chloride	<5.7		5.7	2.3	ug/Kg	☼	02/09/17 08:50	02/14/17 14:01	1
Methyl Ethyl Ketone	<5.7		5.7	2.5	ug/Kg	☼	02/09/17 08:50	02/14/17 14:01	1
methyl isobutyl ketone	<5.7		5.7	1.7	ug/Kg	☼	02/09/17 08:50	02/14/17 14:01	1
Methyl tert-butyl ether	<2.3		2.3	0.67	ug/Kg	☼	02/09/17 08:50	02/14/17 14:01	1
Styrene	<2.3		2.3	0.69	ug/Kg	☼	02/09/17 08:50	02/14/17 14:01	1
1,1,2,2-Tetrachloroethane	<2.3		2.3	0.73	ug/Kg	☼	02/09/17 08:50	02/14/17 14:01	1
Tetrachloroethene	<2.3		2.3	0.78	ug/Kg	☼	02/09/17 08:50	02/14/17 14:01	1
Toluene	<2.3		2.3	0.58	ug/Kg	☼	02/09/17 08:50	02/14/17 14:01	1
trans-1,2-Dichloroethene	<2.3		2.3	1.0	ug/Kg	☼	02/09/17 08:50	02/14/17 14:01	1
trans-1,3-Dichloropropene	<2.3	*	2.3	0.81	ug/Kg	☼	02/09/17 08:50	02/14/17 14:01	1
1,1,1-Trichloroethane	<2.3		2.3	0.77	ug/Kg	☼	02/09/17 08:50	02/14/17 14:01	1
1,1,2-Trichloroethane	<2.3		2.3	0.98	ug/Kg	☼	02/09/17 08:50	02/14/17 14:01	1
Trichloroethene	<2.3		2.3	0.78	ug/Kg	☼	02/09/17 08:50	02/14/17 14:01	1
Vinyl chloride	<2.3		2.3	1.0	ug/Kg	☼	02/09/17 08:50	02/14/17 14:01	1
Xylenes, Total	<4.6		4.6	0.73	ug/Kg	☼	02/09/17 08:50	02/14/17 14:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 120*	*02/09/17 08:50*	*02/14/17 14:01*	*1*
Dibromofluoromethane	*104*		*75 - 120*	*02/09/17 08:50*	*02/14/17 14:01*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*69 - 134*	*02/09/17 08:50*	*02/14/17 14:01*	*1*
Toluene-d8 (Surr)	*111*		*75 - 123*	*02/09/17 08:50*	*02/14/17 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	<220		220	47	ug/Kg	☼	02/13/17 07:37	02/15/17 18:36	1
1,2-Dichlorobenzene	<220		220	52	ug/Kg	☼	02/13/17 07:37	02/15/17 18:36	1
1,3-Dichlorobenzene	<220		220	49	ug/Kg	☼	02/13/17 07:37	02/15/17 18:36	1
1,4-Dichlorobenzene	<220		220	56	ug/Kg	☼	02/13/17 07:37	02/15/17 18:36	1
2,2'-oxybis[1-chloropropane]	<220		220	50	ug/Kg	☼	02/13/17 07:37	02/15/17 18:36	1

Client Sample ID: A44-8(0-1)-020817
Date Collected: 02/08/17 10:35
Date Received: 02/08/17 17:00

Lab Sample ID: 500-123629-15
Matrix: Solid
Percent Solids: 72.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<430		430	99	ug/Kg	☼	02/13/17 07:37	02/15/17 18:36	1
2,4,6-Trichlorophenol	<430		430	150	ug/Kg	☼	02/13/17 07:37	02/15/17 18:36	1
2,4-Dichlorophenol	<430		430	100	ug/Kg	☼	02/13/17 07:37	02/15/17 18:36	1
2,4-Dimethylphenol	<430		430	160	ug/Kg	☼	02/13/17 07:37	02/15/17 18:36	1
2,4-Dinitrophenol	<880		880	760	ug/Kg	☼	02/13/17 07:37	02/15/17 18:36	1
2,4-Dinitrotoluene	<220		220	69	ug/Kg	☼	02/13/17 07:37	02/15/17 18:36	1
2,6-Dinitrotoluene	<220		220	85	ug/Kg	☼	02/13/17 07:37	02/15/17 18:36	1
2-Chloronaphthalene	<220		220	48	ug/Kg	☼	02/13/17 07:37	02/15/17 18:36	1
2-Chlorophenol	<220		220	74	ug/Kg	☼	02/13/17 07:37	02/15/17 18:36	1
2-Methylnaphthalene	<88		88	8.0	ug/Kg	☼	02/13/17 07:37	02/15/17 18:36	1
2-Methylphenol	<220		220	70	ug/Kg	☼	02/13/17 07:37	02/15/17 18:36	1
2-Nitroaniline	<220		220	58	ug/Kg	☼	02/13/17 07:37	02/15/17 18:36	1
2-Nitrophenol	<430		430	100	ug/Kg	☼	02/13/17 07:37	02/15/17 18:36	1
3 & 4 Methylphenol	<220		220	72	ug/Kg	☼	02/13/17 07:37	02/15/17 18:36	1
3,3'-Dichlorobenzidine	<220		220	61	ug/Kg	☼	02/13/17 07:37	02/15/17 18:36	1
3-Nitroaniline	<430		430	130	ug/Kg	☼	02/13/17 07:37	02/15/17 18:36	1
4,6-Dinitro-2-methylphenol	<880		880	350	ug/Kg	☼	02/13/17 07:37	02/15/17 18:36	1
4-Bromophenyl phenyl ether	<220		220	57	ug/Kg	☼	02/13/17 07:37	02/15/17 18:36	1
4-Chloro-3-methylphenol	<430		430	150	ug/Kg	☼	02/13/17 07:37	02/15/17 18:36	1
4-Chloroaniline	<880		880	200	ug/Kg	☼	02/13/17 07:37	02/15/17 18:36	1
4-Chlorophenyl phenyl ether	<220		220	51	ug/Kg	☼	02/13/17 07:37	02/15/17 18:36	1
4-Nitroaniline	<430		430	180	ug/Kg	☼	02/13/17 07:37	02/15/17 18:36	1
4-Nitrophenol	<880		880	410	ug/Kg	☼	02/13/17 07:37	02/15/17 18:36	1
Acenaphthene	<43		43	7.8	ug/Kg	☼	02/13/17 07:37	02/15/17 18:36	1
Acenaphthylene	**9.8**	**J**	43	5.7	ug/Kg	☼	02/13/17 07:37	02/15/17 18:36	1
Anthracene	**23**	**J**	43	7.3	ug/Kg	☼	02/13/17 07:37	02/15/17 18:36	1
Benzo[a]anthracene	**78**		43	5.8	ug/Kg	☼	02/13/17 07:37	02/15/17 18:36	1
Benzo[a]pyrene	**130**	*****	43	8.4	ug/Kg	☼	02/13/17 07:37	02/15/17 18:36	1
Benzo[b]fluoranthene	**240**	*****	43	9.4	ug/Kg	☼	02/13/17 07:37	02/15/17 18:36	1
Benzo[g,h,i]perylene	**100**	*****	43	14	ug/Kg	☼	02/13/17 07:37	02/15/17 18:36	1
Benzo[k]fluoranthene	**47**	*****	43	13	ug/Kg	☼	02/13/17 07:37	02/15/17 18:36	1
Bis(2-chloroethoxy)methane	<220		220	44	ug/Kg	☼	02/13/17 07:37	02/15/17 18:36	1
Bis(2-chloroethyl)ether	<220		220	65	ug/Kg	☼	02/13/17 07:37	02/15/17 18:36	1
Bis(2-ethylhexyl) phthalate	**82**	**J**	220	79	ug/Kg	☼	02/13/17 07:37	02/15/17 18:36	1
Butyl benzyl phthalate	<220		220	83	ug/Kg	☼	02/13/17 07:37	02/15/17 18:36	1
Carbazole	<220		220	110	ug/Kg	☼	02/13/17 07:37	02/15/17 18:36	1
Chrysene	**87**		43	12	ug/Kg	☼	02/13/17 07:37	02/15/17 18:36	1
Dibenz(a,h)anthracene	<43	*	43	8.4	ug/Kg	☼	02/13/17 07:37	02/15/17 18:36	1
Dibenzofuran	<220		220	51	ug/Kg	☼	02/13/17 07:37	02/15/17 18:36	1
Diethyl phthalate	<220		220	74	ug/Kg	☼	02/13/17 07:37	02/15/17 18:36	1
Dimethyl phthalate	<220		220	57	ug/Kg	☼	02/13/17 07:37	02/15/17 18:36	1
Di-n-butyl phthalate	<220		220	66	ug/Kg	☼	02/13/17 07:37	02/15/17 18:36	1
Di-n-octyl phthalate	<220		220	71	ug/Kg	☼	02/13/17 07:37	02/15/17 18:36	1
Fluoranthene	**160**		43	8.1	ug/Kg	☼	02/13/17 07:37	02/15/17 18:36	1
Fluorene	**7.9**	**J**	43	6.1	ug/Kg	☼	02/13/17 07:37	02/15/17 18:36	1
Hexachlorobenzene	<88		88	10	ug/Kg	☼	02/13/17 07:37	02/15/17 18:36	1
Hexachlorobutadiene	<220		220	68	ug/Kg	☼	02/13/17 07:37	02/15/17 18:36	1
Hexachlorocyclopentadiene	<880		880	250	ug/Kg	☼	02/13/17 07:37	02/15/17 18:36	1
Hexachloroethane	<220		220	66	ug/Kg	☼	02/13/17 07:37	02/15/17 18:36	1

Client Sample ID: A44-8(0-1)-020817
Date Collected: 02/08/17 10:35
Date Received: 02/08/17 17:00

Lab Sample ID: 500-123629-15
Matrix: Solid
Percent Solids: 72.2

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	**86**	*	43	11	ug/Kg	☼	02/13/17 07:37	02/15/17 18:36	1
Isophorone	<220		220	49	ug/Kg	☼	02/13/17 07:37	02/15/17 18:36	1
Naphthalene	<43		43	6.7	ug/Kg	☼	02/13/17 07:37	02/15/17 18:36	1
Nitrobenzene	<43		43	11	ug/Kg	☼	02/13/17 07:37	02/15/17 18:36	1
N-Nitrosodi-n-propylamine	<88		88	53	ug/Kg	☼	02/13/17 07:37	02/15/17 18:36	1
N-Nitrosodiphenylamine	<220		220	51	ug/Kg	☼	02/13/17 07:37	02/15/17 18:36	1
Pentachlorophenol	<880		880	700	ug/Kg	☼	02/13/17 07:37	02/15/17 18:36	1
Phenanthrene	**110**		43	6.1	ug/Kg	☼	02/13/17 07:37	02/15/17 18:36	1
Phenol	<220		220	96	ug/Kg	☼	02/13/17 07:37	02/15/17 18:36	1
Pyrene	**210**		43	8.6	ug/Kg	☼	02/13/17 07:37	02/15/17 18:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*47*		*25 - 130*	*02/13/17 07:37*	*02/15/17 18:36*	*1*
2-Fluorobiphenyl	*75*		*42 - 115*	*02/13/17 07:37*	*02/15/17 18:36*	*1*
2-Fluorophenol	*98*		*40 - 130*	*02/13/17 07:37*	*02/15/17 18:36*	*1*
Nitrobenzene-d5	*87*		*33 - 124*	*02/13/17 07:37*	*02/15/17 18:36*	*1*
Phenol-d5	*83*		*36 - 123*	*02/13/17 07:37*	*02/15/17 18:36*	*1*
Terphenyl-d14	*177*	*X*	*25 - 150*	*02/13/17 07:37*	*02/15/17 18:36*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/14/17 08:00	02/14/17 17:06	1
Barium	**0.32**	**J**	0.50	0.050	mg/L		02/14/17 08:00	02/14/17 17:06	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/14/17 08:00	02/14/17 17:06	1
Cadmium	**0.0020**	**J**	0.0050	0.0020	mg/L		02/14/17 08:00	02/14/17 17:06	1
Chromium	<0.025		0.025	0.010	mg/L		02/14/17 08:00	02/14/17 17:06	1
Cobalt	<0.025		0.025	0.010	mg/L		02/14/17 08:00	02/14/17 17:06	1
Copper	<0.025		0.025	0.010	mg/L		02/14/17 08:00	02/14/17 17:06	1
Iron	<0.40		0.40	0.20	mg/L		02/14/17 08:00	02/14/17 17:06	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/14/17 08:00	02/14/17 17:06	1
Manganese	**0.19**		0.025	0.010	mg/L		02/14/17 08:00	02/14/17 17:06	1
Nickel	<0.025		0.025	0.010	mg/L		02/14/17 08:00	02/14/17 17:06	1
Selenium	<0.050		0.050	0.020	mg/L		02/14/17 08:00	02/14/17 17:06	1
Silver	<0.025		0.025	0.010	mg/L		02/14/17 08:00	02/14/17 17:06	1
Zinc	**0.060**	**J**	0.50	0.020	mg/L		02/14/17 08:00	02/14/17 17:06	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		02/14/17 08:00	02/14/17 18:25	1
Barium	**0.63**		0.50	0.050	mg/L		02/14/17 08:00	02/14/17 18:25	1
Beryllium	**0.0040**		0.0040	0.0040	mg/L		02/14/17 08:00	02/14/17 18:25	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/14/17 08:00	02/14/17 18:25	1
Chromium	**0.11**		0.025	0.010	mg/L		02/14/17 08:00	02/14/17 18:25	1
Cobalt	**0.020**	**J**	0.025	0.010	mg/L		02/14/17 08:00	02/14/17 18:25	1
Copper	**0.14**		0.025	0.010	mg/L		02/14/17 08:00	02/14/17 18:25	1
Iron	**99**		0.40	0.20	mg/L		02/14/17 08:00	02/14/17 18:25	1
Lead	**0.29**		0.038	0.038	mg/L		02/14/17 08:00	02/15/17 13:17	5
Manganese	**0.71**		0.025	0.010	mg/L		02/14/17 08:00	02/14/17 18:25	1
Nickel	**0.096**		0.025	0.010	mg/L		02/14/17 08:00	02/14/17 18:25	1
Selenium	<0.050		0.050	0.020	mg/L		02/14/17 08:00	02/14/17 18:25	1

Client Sample ID: A44-8(0-1)-020817
Date Collected: 02/08/17 10:35
Date Received: 02/08/17 17:00

Lab Sample ID: 500-123629-15
Matrix: Solid
Percent Solids: 72.2

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		02/14/17 08:00	02/14/17 18:25	1
Zinc	**0.73**		0.50	0.020	mg/L		02/14/17 08:00	02/14/17 18:25	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.43**	**J**	1.3	0.27	mg/Kg	☼	02/11/17 10:45	02/13/17 22:14	1
Arsenic	**7.2**		0.64	0.30	mg/Kg	☼	02/11/17 10:45	02/13/17 22:14	1
Barium	**98**		0.64	0.12	mg/Kg	☼	02/11/17 10:45	02/13/17 22:14	1
Beryllium	**0.68**		0.26	0.055	mg/Kg	☼	02/11/17 10:45	02/13/17 22:14	1
Cadmium	**0.31**		0.13	0.037	mg/Kg	☼	02/11/17 10:45	02/13/17 22:14	1
Calcium	**7000**	**B**	13	4.1	mg/Kg	☼	02/11/17 10:45	02/13/17 22:14	1
Chromium	**15**		0.64	0.11	mg/Kg	☼	02/11/17 10:45	02/13/17 22:14	1
Cobalt	**7.3**		0.32	0.072	mg/Kg	☼	02/11/17 10:45	02/13/17 22:14	1
Copper	**25**		0.64	0.14	mg/Kg	☼	02/11/17 10:45	02/13/17 22:14	1
Iron	**16000**	**B**	13	4.9	mg/Kg	☼	02/11/17 10:45	02/13/17 22:14	1
Lead	**83**		0.32	0.16	mg/Kg	☼	02/11/17 10:45	02/13/17 22:14	1
Magnesium	**4700**	**B**	6.4	2.6	mg/Kg	☼	02/11/17 10:45	02/13/17 22:14	1
Manganese	**370**		0.64	0.13	mg/Kg	☼	02/11/17 10:45	02/13/17 22:14	1
Nickel	**19**		0.64	0.17	mg/Kg	☼	02/11/17 10:45	02/13/17 22:14	1
Potassium	**1300**		32	5.2	mg/Kg	☼	02/11/17 10:45	02/13/17 22:14	1
Selenium	**0.59**	**J**	0.64	0.32	mg/Kg	☼	02/11/17 10:45	02/13/17 22:14	1
Silver	<0.32		0.32	0.075	mg/Kg	☼	02/11/17 10:45	02/13/17 22:14	1
Sodium	**1200**		64	8.4	mg/Kg	☼	02/11/17 10:45	02/13/17 22:14	1
Thallium	<0.64		0.64	0.31	mg/Kg	☼	02/11/17 10:45	02/13/17 22:14	1
Vanadium	**21**		0.32	0.093	mg/Kg	☼	02/11/17 10:45	02/13/17 22:14	1
Zinc	**130**		1.3	0.40	mg/Kg	☼	02/11/17 10:45	02/13/17 22:14	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 13:21	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 11:45	02/14/17 10:59	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**73**		20	11	ug/Kg	☼	02/10/17 16:45	02/13/17 10:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.5**		0.2	0.2	SU			02/13/17 13:44	1

Qualifiers

GC/MS VOA

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

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: 500-123629-1

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 ENVIRONMENTA

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

500-123629 COC

Chain of Custody Record

Lab Job #: 500-123629

Chain of Custody Number:

Page 3 of 6

Temperature °C of Cooler: 4.3, 4.1, 2.9, 4.0, 3.6

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: 224-864-7250	Phone: M
Fax:	Fax: K
E-Mail:	PO#/Reference#

Client	Client Project #	Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	VOC	SVOC	Total Metals	TCLP/SPLP Metals	pH
Weston Solutions		1		F40-2(0-1)-020817	2/7/17	1420	6	S	X	X	X	X	X
Project Name: IDOT 053		2		A38-21(0-1)-020817		1438	6	S	↓	↓	↓	↓	↓
Project Location/State: Beecher / IL	Lab Project #	3		A38-22(0-1)-020817		1450	6	S					
Sampler: AT	Lab PM: D. Wright	4		A38-22(0-1)-020817D		1452	6	S					
		5		A38-23(0-1)-020817	2/7/17	1520	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

Comments

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	2/8/17	1700	[signature]	TA	2/8/17	1700
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier
Shipped 2/9/17
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:

2/17/2017

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 #: 500-123629

Chain of Custody Number:

Page 4 of 6

Temperature °C of Cooler:

Report To (optional)	Bill To (optional)
Contact: S. Babusubramanian	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: JB	Lab PM: Dick Weigner	

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	VOCs	SVOCs	Total Metals	TCLP/SPLP Metals	pH	Comments
6		A44-1(0-1)-020817	2/8/17	08:40	6	SO						
7		A44-2(0-1)-020817		09:00								
8		A44-2(0-1)-020817D		09:00								
9		A44-3(0-1)-020817		09:15								
10		R46-1(0-1)-020817		09:30								
11		A44-4(0-1)-020817		09:45								
12		A44-5(0-1)-020817		09:55								
13		A44-6(0-1)-020817		10:10								
14		A44-7(0-1)-020817		10:20								
15		A44-8(0-1)-020817		10:35								

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	2/8/17	1700	[signature]	TA	2/8/17	1700
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:

2/17/2017

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: 500-123630-1
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:
2/17/2017 4:05:23 PM

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

Client Sample ID: A44-11(0-1)-020817
Date Collected: 02/08/17 11:10
Date Received: 02/08/17 17:00

Lab Sample ID: 500-123630-3
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	<20		20	8.8	ug/Kg	☼	02/09/17 08:50	02/13/17 16:20	1
Benzene	<2.0		2.0	0.51	ug/Kg	☼	02/09/17 08:50	02/13/17 16:20	1
Bromodichloromethane	<2.0		2.0	0.41	ug/Kg	☼	02/09/17 08:50	02/13/17 16:20	1
Bromoform	<2.0		2.0	0.59	ug/Kg	☼	02/09/17 08:50	02/13/17 16:20	1
Bromomethane	<5.0		5.0	1.9	ug/Kg	☼	02/09/17 08:50	02/13/17 16:20	1
Carbon disulfide	<5.0		5.0	1.0	ug/Kg	☼	02/09/17 08:50	02/13/17 16:20	1
Carbon tetrachloride	<2.0		2.0	0.58	ug/Kg	☼	02/09/17 08:50	02/13/17 16:20	1
Chlorobenzene	<2.0		2.0	0.74	ug/Kg	☼	02/09/17 08:50	02/13/17 16:20	1
Chloroethane	<5.0	*	5.0	1.5	ug/Kg	☼	02/09/17 08:50	02/13/17 16:20	1
Chloroform	<2.0		2.0	0.70	ug/Kg	☼	02/09/17 08:50	02/13/17 16:20	1
Chloromethane	<5.0		5.0	2.0	ug/Kg	☼	02/09/17 08:50	02/13/17 16:20	1
cis-1,2-Dichloroethene	<2.0		2.0	0.56	ug/Kg	☼	02/09/17 08:50	02/13/17 16:20	1
cis-1,3-Dichloropropene	<2.0		2.0	0.61	ug/Kg	☼	02/09/17 08:50	02/13/17 16:20	1
Dibromochloromethane	<2.0		2.0	0.66	ug/Kg	☼	02/09/17 08:50	02/13/17 16:20	1
1,1-Dichloroethane	<2.0		2.0	0.69	ug/Kg	☼	02/09/17 08:50	02/13/17 16:20	1
1,2-Dichloroethane	<5.0		5.0	1.6	ug/Kg	☼	02/09/17 08:50	02/13/17 16:20	1
1,1-Dichloroethene	<2.0		2.0	0.69	ug/Kg	☼	02/09/17 08:50	02/13/17 16:20	1
1,2-Dichloropropane	<2.0		2.0	0.52	ug/Kg	☼	02/09/17 08:50	02/13/17 16:20	1
1,3-Dichloropropene, Total	<2.0		2.0	0.71	ug/Kg	☼	02/09/17 08:50	02/13/17 16:20	1
Ethylbenzene	<2.0		2.0	0.96	ug/Kg	☼	02/09/17 08:50	02/13/17 16:20	1
2-Hexanone	<5.0		5.0	1.6	ug/Kg	☼	02/09/17 08:50	02/13/17 16:20	1
Methylene Chloride	<5.0		5.0	2.0	ug/Kg	☼	02/09/17 08:50	02/13/17 16:20	1
Methyl Ethyl Ketone	<5.0		5.0	2.2	ug/Kg	☼	02/09/17 08:50	02/13/17 16:20	1
methyl isobutyl ketone	<5.0		5.0	1.5	ug/Kg	☼	02/09/17 08:50	02/13/17 16:20	1
Methyl tert-butyl ether	<2.0		2.0	0.59	ug/Kg	☼	02/09/17 08:50	02/13/17 16:20	1
Styrene	<2.0		2.0	0.61	ug/Kg	☼	02/09/17 08:50	02/13/17 16:20	1
1,1,2,2-Tetrachloroethane	<2.0		2.0	0.64	ug/Kg	☼	02/09/17 08:50	02/13/17 16:20	1
Tetrachloroethene	<2.0		2.0	0.69	ug/Kg	☼	02/09/17 08:50	02/13/17 16:20	1
Toluene	<2.0		2.0	0.51	ug/Kg	☼	02/09/17 08:50	02/13/17 16:20	1
trans-1,2-Dichloroethene	<2.0		2.0	0.89	ug/Kg	☼	02/09/17 08:50	02/13/17 16:20	1
trans-1,3-Dichloropropene	<2.0		2.0	0.71	ug/Kg	☼	02/09/17 08:50	02/13/17 16:20	1
1,1,1-Trichloroethane	<2.0		2.0	0.68	ug/Kg	☼	02/09/17 08:50	02/13/17 16:20	1
1,1,2-Trichloroethane	<2.0		2.0	0.86	ug/Kg	☼	02/09/17 08:50	02/13/17 16:20	1
Trichloroethene	<2.0		2.0	0.68	ug/Kg	☼	02/09/17 08:50	02/13/17 16:20	1
Vinyl chloride	<2.0		2.0	0.89	ug/Kg	☼	02/09/17 08:50	02/13/17 16:20	1
Xylenes, Total	<4.0		4.0	0.64	ug/Kg	☼	02/09/17 08:50	02/13/17 16:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*	*X*	*70 - 120*	*02/09/17 08:50*	*02/13/17 16:20*	*1*
Dibromofluoromethane	*94*		*75 - 120*	*02/09/17 08:50*	*02/13/17 16:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*69 - 134*	*02/09/17 08:50*	*02/13/17 16:20*	*1*
Toluene-d8 (Surr)	*114*		*75 - 123*	*02/09/17 08:50*	*02/13/17 16:20*	*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	☼	02/13/17 18:04	02/16/17 15:16	1
1,2-Dichlorobenzene	<210		210	51	ug/Kg	☼	02/13/17 18:04	02/16/17 15:16	1
1,3-Dichlorobenzene	<210		210	48	ug/Kg	☼	02/13/17 18:04	02/16/17 15:16	1
1,4-Dichlorobenzene	<210		210	54	ug/Kg	☼	02/13/17 18:04	02/16/17 15:16	1
2,2'-oxybis[1-chloropropane]	<210		210	49	ug/Kg	☼	02/13/17 18:04	02/16/17 15:16	1

Client Sample ID: A44-11(0-1)-020817
Date Collected: 02/08/17 11:10
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Lab Sample ID: 500-123630-3
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	☼	02/13/17 18:04	02/16/17 15:16	1
2,4,6-Trichlorophenol	<420		420	150	ug/Kg	☼	02/13/17 18:04	02/16/17 15:16	1
2,4-Dichlorophenol	<420		420	100	ug/Kg	☼	02/13/17 18:04	02/16/17 15:16	1
2,4-Dimethylphenol	<420		420	160	ug/Kg	☼	02/13/17 18:04	02/16/17 15:16	1
2,4-Dinitrophenol	<860	*	860	750	ug/Kg	☼	02/13/17 18:04	02/16/17 15:16	1
2,4-Dinitrotoluene	<210		210	68	ug/Kg	☼	02/13/17 18:04	02/16/17 15:16	1
2,6-Dinitrotoluene	<210		210	84	ug/Kg	☼	02/13/17 18:04	02/16/17 15:16	1
2-Chloronaphthalene	<210		210	47	ug/Kg	☼	02/13/17 18:04	02/16/17 15:16	1
2-Chlorophenol	<210		210	73	ug/Kg	☼	02/13/17 18:04	02/16/17 15:16	1
2-Methylnaphthalene	**9.6**	**J**	86	7.8	ug/Kg	☼	02/13/17 18:04	02/16/17 15:16	1
2-Methylphenol	<210		210	68	ug/Kg	☼	02/13/17 18:04	02/16/17 15:16	1
2-Nitroaniline	<210		210	57	ug/Kg	☼	02/13/17 18:04	02/16/17 15:16	1
2-Nitrophenol	<420		420	100	ug/Kg	☼	02/13/17 18:04	02/16/17 15:16	1
3 & 4 Methylphenol	<210		210	71	ug/Kg	☼	02/13/17 18:04	02/16/17 15:16	1
3,3'-Dichlorobenzidine	<210		210	59	ug/Kg	☼	02/13/17 18:04	02/16/17 15:16	1
3-Nitroaniline	<420		420	130	ug/Kg	☼	02/13/17 18:04	02/16/17 15:16	1
4,6-Dinitro-2-methylphenol	<860		860	340	ug/Kg	☼	02/13/17 18:04	02/16/17 15:16	1
4-Bromophenyl phenyl ether	<210		210	56	ug/Kg	☼	02/13/17 18:04	02/16/17 15:16	1
4-Chloro-3-methylphenol	<420		420	140	ug/Kg	☼	02/13/17 18:04	02/16/17 15:16	1
4-Chloroaniline	<860		860	200	ug/Kg	☼	02/13/17 18:04	02/16/17 15:16	1
4-Chlorophenyl phenyl ether	<210		210	50	ug/Kg	☼	02/13/17 18:04	02/16/17 15:16	1
4-Nitroaniline	<420		420	180	ug/Kg	☼	02/13/17 18:04	02/16/17 15:16	1
4-Nitrophenol	<860		860	400	ug/Kg	☼	02/13/17 18:04	02/16/17 15:16	1
Acenaphthene	**13**	**J**	42	7.6	ug/Kg	☼	02/13/17 18:04	02/16/17 15:16	1
Acenaphthylene	**15**	**J**	42	5.6	ug/Kg	☼	02/13/17 18:04	02/16/17 15:16	1
Anthracene	**33**	**J**	42	7.1	ug/Kg	☼	02/13/17 18:04	02/16/17 15:16	1
Benzo[a]anthracene	**100**		42	5.7	ug/Kg	☼	02/13/17 18:04	02/16/17 15:16	1
Benzo[a]pyrene	**100**		42	8.2	ug/Kg	☼	02/13/17 18:04	02/16/17 15:16	1
Benzo[b]fluoranthene	**180**		42	9.2	ug/Kg	☼	02/13/17 18:04	02/16/17 15:16	1
Benzo[g,h,i]perylene	**40**	**J**	42	14	ug/Kg	☼	02/13/17 18:04	02/16/17 15:16	1
Benzo[k]fluoranthene	**57**		42	13	ug/Kg	☼	02/13/17 18:04	02/16/17 15:16	1
Bis(2-chloroethoxy)methane	<210		210	43	ug/Kg	☼	02/13/17 18:04	02/16/17 15:16	1
Bis(2-chloroethyl)ether	<210		210	64	ug/Kg	☼	02/13/17 18:04	02/16/17 15:16	1
Bis(2-ethylhexyl) phthalate	<210		210	78	ug/Kg	☼	02/13/17 18:04	02/16/17 15:16	1
Butyl benzyl phthalate	<210		210	81	ug/Kg	☼	02/13/17 18:04	02/16/17 15:16	1
Carbazole	<210		210	110	ug/Kg	☼	02/13/17 18:04	02/16/17 15:16	1
Chrysene	**110**		42	12	ug/Kg	☼	02/13/17 18:04	02/16/17 15:16	1
Dibenz(a,h)anthracene	<42		42	8.2	ug/Kg	☼	02/13/17 18:04	02/16/17 15:16	1
Dibenzofuran	<210		210	50	ug/Kg	☼	02/13/17 18:04	02/16/17 15:16	1
Diethyl phthalate	<210		210	72	ug/Kg	☼	02/13/17 18:04	02/16/17 15:16	1
Dimethyl phthalate	<210		210	56	ug/Kg	☼	02/13/17 18:04	02/16/17 15:16	1
Di-n-butyl phthalate	<210		210	65	ug/Kg	☼	02/13/17 18:04	02/16/17 15:16	1
Di-n-octyl phthalate	<210		210	69	ug/Kg	☼	02/13/17 18:04	02/16/17 15:16	1
Fluoranthene	**270**		42	7.9	ug/Kg	☼	02/13/17 18:04	02/16/17 15:16	1
Fluorene	**13**	**J**	42	6.0	ug/Kg	☼	02/13/17 18:04	02/16/17 15:16	1
Hexachlorobenzene	<86		86	9.8	ug/Kg	☼	02/13/17 18:04	02/16/17 15:16	1
Hexachlorobutadiene	<210		210	67	ug/Kg	☼	02/13/17 18:04	02/16/17 15:16	1
Hexachlorocyclopentadiene	<860		860	240	ug/Kg	☼	02/13/17 18:04	02/16/17 15:16	1
Hexachloroethane	<210		210	65	ug/Kg	☼	02/13/17 18:04	02/16/17 15:16	1

Client Sample ID: A44-11(0-1)-020817
Date Collected: 02/08/17 11:10
Date Received: 02/08/17 17:00

Lab Sample ID: 500-123630-3
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	**35**	**J**	42	11	ug/Kg	☼	02/13/17 18:04	02/16/17 15:16	1
Isophorone	<210		210	48	ug/Kg	☼	02/13/17 18:04	02/16/17 15:16	1
Naphthalene	**8.0**	**J**	42	6.5	ug/Kg	☼	02/13/17 18:04	02/16/17 15:16	1
Nitrobenzene	<42		42	11	ug/Kg	☼	02/13/17 18:04	02/16/17 15:16	1
N-Nitrosodi-n-propylamine	<86		86	52	ug/Kg	☼	02/13/17 18:04	02/16/17 15:16	1
N-Nitrosodiphenylamine	<210		210	50	ug/Kg	☼	02/13/17 18:04	02/16/17 15:16	1
Pentachlorophenol	<860		860	680	ug/Kg	☼	02/13/17 18:04	02/16/17 15:16	1
Phenanthrene	**180**		42	5.9	ug/Kg	☼	02/13/17 18:04	02/16/17 15:16	1
Phenol	<210		210	94	ug/Kg	☼	02/13/17 18:04	02/16/17 15:16	1
Pyrene	**240**		42	8.4	ug/Kg	☼	02/13/17 18:04	02/16/17 15:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*60*		*25 - 130*	*02/13/17 18:04*	*02/16/17 15:16*	*1*
2-Fluorobiphenyl	*80*		*42 - 115*	*02/13/17 18:04*	*02/16/17 15:16*	*1*
2-Fluorophenol	*80*		*40 - 130*	*02/13/17 18:04*	*02/16/17 15:16*	*1*
Nitrobenzene-d5	*67*		*33 - 124*	*02/13/17 18:04*	*02/16/17 15:16*	*1*
Phenol-d5	*73*		*36 - 123*	*02/13/17 18:04*	*02/16/17 15:16*	*1*
Terphenyl-d14	*105*		*25 - 150*	*02/13/17 18:04*	*02/16/17 15:16*	*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		02/14/17 08:49	02/14/17 16:49	1
Barium	**0.53**		0.50	0.050	mg/L		02/14/17 08:49	02/14/17 16:49	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/14/17 08:49	02/14/17 16:49	1
Cadmium	**0.0059**		0.0050	0.0020	mg/L		02/14/17 08:49	02/14/17 16:49	1
Chromium	<0.025		0.025	0.010	mg/L		02/14/17 08:49	02/14/17 16:49	1
Cobalt	<0.025		0.025	0.010	mg/L		02/14/17 08:49	02/14/17 16:49	1
Copper	<0.025		0.025	0.010	mg/L		02/14/17 08:49	02/14/17 16:49	1
Iron	<0.40		0.40	0.20	mg/L		02/14/17 08:49	02/14/17 16:49	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/14/17 08:49	02/14/17 16:49	1
Manganese	**0.29**		0.025	0.010	mg/L		02/14/17 08:49	02/14/17 16:49	1
Nickel	<0.025		0.025	0.010	mg/L		02/14/17 08:49	02/14/17 16:49	1
Selenium	<0.050		0.050	0.020	mg/L		02/14/17 08:49	02/14/17 16:49	1
Silver	<0.025		0.025	0.010	mg/L		02/14/17 08:49	02/14/17 16:49	1
Zinc	**0.44**	**J**	0.50	0.020	mg/L		02/14/17 08:49	02/14/17 16:49	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		02/14/17 14:07	02/15/17 11:28	1
Barium	**0.30**	**J**	0.50	0.050	mg/L		02/14/17 14:07	02/15/17 11:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/14/17 14:07	02/15/17 11:28	1
Cadmium	**0.0033**	**J**	0.0050	0.0020	mg/L		02/14/17 14:07	02/15/17 11:28	1
Chromium	**0.053**		0.025	0.010	mg/L		02/14/17 14:07	02/15/17 11:28	1
Cobalt	<0.025		0.025	0.010	mg/L		02/14/17 14:07	02/15/17 11:28	1
Copper	**0.051**		0.025	0.010	mg/L		02/14/17 14:07	02/15/17 11:28	1
Iron	**43**		0.40	0.20	mg/L		02/14/17 14:07	02/15/17 11:28	1
Lead	**0.11**		0.0075	0.0075	mg/L		02/14/17 14:07	02/15/17 11:28	1
Manganese	**0.42**		0.025	0.010	mg/L		02/14/17 14:07	02/15/17 11:28	1
Nickel	**0.039**		0.025	0.010	mg/L		02/14/17 14:07	02/15/17 11:28	1
Selenium	<0.050		0.050	0.020	mg/L		02/14/17 14:07	02/15/17 11:28	1

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Lab Sample ID: 500-123630-3
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		02/14/17 14:07	02/15/17 11:28	1
Zinc	**0.65**		0.50	0.020	mg/L		02/14/17 14:07	02/15/17 11:28	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.58**	**J**	1.2	0.25	mg/Kg	☼	02/11/17 10:34	02/12/17 00:27	1
Arsenic	**5.5**		0.61	0.28	mg/Kg	☼	02/11/17 10:34	02/12/17 00:27	1
Barium	**87**		0.61	0.11	mg/Kg	☼	02/11/17 10:34	02/12/17 00:27	1
Beryllium	**0.49**		0.24	0.053	mg/Kg	☼	02/11/17 10:34	02/12/17 00:27	1
Cadmium	**3.3**		0.12	0.035	mg/Kg	☼	02/11/17 10:34	02/12/17 00:27	1
Calcium	**22000**	**B**	12	3.9	mg/Kg	☼	02/11/17 10:34	02/12/17 00:27	1
Chromium	**13**	**B**	0.61	0.10	mg/Kg	☼	02/11/17 10:34	02/12/17 00:27	1
Cobalt	**7.3**		0.30	0.069	mg/Kg	☼	02/11/17 10:34	02/12/17 00:27	1
Copper	**21**		0.61	0.13	mg/Kg	☼	02/11/17 10:34	02/12/17 00:27	1
Iron	**14000**	**B**	12	4.7	mg/Kg	☼	02/11/17 10:34	02/12/17 00:27	1
Lead	**130**	**B**	0.30	0.15	mg/Kg	☼	02/11/17 10:34	02/12/17 00:27	1
Magnesium	**14000**	**B**	6.1	2.5	mg/Kg	☼	02/11/17 10:34	02/12/17 00:27	1
Manganese	**480**		0.61	0.12	mg/Kg	☼	02/11/17 10:34	02/12/17 00:27	1
Nickel	**16**		0.61	0.16	mg/Kg	☼	02/11/17 10:34	02/12/17 00:27	1
Potassium	**1000**		30	5.0	mg/Kg	☼	02/11/17 10:34	02/12/17 00:27	1
Selenium	**0.96**		0.61	0.30	mg/Kg	☼	02/11/17 10:34	02/12/17 00:27	1
Silver	<0.30		0.30	0.071	mg/Kg	☼	02/11/17 10:34	02/12/17 00:27	1
Sodium	**820**		61	8.0	mg/Kg	☼	02/11/17 10:34	02/12/17 00:27	1
Thallium	<0.61		0.61	0.30	mg/Kg	☼	02/11/17 10:34	02/12/17 00:27	1
Vanadium	**16**		0.30	0.089	mg/Kg	☼	02/11/17 10:34	02/12/17 00:27	1
Zinc	**230**		1.2	0.39	mg/Kg	☼	02/11/17 10:34	02/12/17 00:27	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		02/14/17 13:00	02/15/17 09:40	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		02/14/17 13:00	02/15/17 10:22	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**52**		19	10	ug/Kg	☼	02/10/17 16:45	02/13/17 11:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.1**		0.2	0.2	SU			02/13/17 14:01	1

Client Sample ID: A44-12(0-1)-020817
Date Collected: 02/08/17 11:30
Date Received: 02/08/17 17:00

Lab Sample ID: 500-123630-4
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	7.7	ug/Kg	☼	02/09/17 08:50	02/13/17 16:44	1
Benzene	<1.8		1.8	0.45	ug/Kg	☼	02/09/17 08:50	02/13/17 16:44	1
Bromodichloromethane	<1.8		1.8	0.36	ug/Kg	☼	02/09/17 08:50	02/13/17 16:44	1
Bromoform	<1.8		1.8	0.51	ug/Kg	☼	02/09/17 08:50	02/13/17 16:44	1
Bromomethane	<4.4		4.4	1.7	ug/Kg	☼	02/09/17 08:50	02/13/17 16:44	1
Carbon disulfide	<4.4		4.4	0.92	ug/Kg	☼	02/09/17 08:50	02/13/17 16:44	1
Carbon tetrachloride	<1.8		1.8	0.51	ug/Kg	☼	02/09/17 08:50	02/13/17 16:44	1
Chlorobenzene	<1.8		1.8	0.65	ug/Kg	☼	02/09/17 08:50	02/13/17 16:44	1
Chloroethane	<4.4	*	4.4	1.3	ug/Kg	☼	02/09/17 08:50	02/13/17 16:44	1
Chloroform	<1.8		1.8	0.61	ug/Kg	☼	02/09/17 08:50	02/13/17 16:44	1
Chloromethane	<4.4		4.4	1.8	ug/Kg	☼	02/09/17 08:50	02/13/17 16:44	1
cis-1,2-Dichloroethene	<1.8		1.8	0.49	ug/Kg	☼	02/09/17 08:50	02/13/17 16:44	1
cis-1,3-Dichloropropene	<1.8		1.8	0.53	ug/Kg	☼	02/09/17 08:50	02/13/17 16:44	1
Dibromochloromethane	<1.8		1.8	0.58	ug/Kg	☼	02/09/17 08:50	02/13/17 16:44	1
1,1-Dichloroethane	<1.8		1.8	0.60	ug/Kg	☼	02/09/17 08:50	02/13/17 16:44	1
1,2-Dichloroethane	<4.4		4.4	1.4	ug/Kg	☼	02/09/17 08:50	02/13/17 16:44	1
1,1-Dichloroethene	<1.8		1.8	0.61	ug/Kg	☼	02/09/17 08:50	02/13/17 16:44	1
1,2-Dichloropropane	<1.8		1.8	0.45	ug/Kg	☼	02/09/17 08:50	02/13/17 16:44	1
1,3-Dichloropropene, Total	<1.8		1.8	0.62	ug/Kg	☼	02/09/17 08:50	02/13/17 16:44	1
Ethylbenzene	<1.8		1.8	0.84	ug/Kg	☼	02/09/17 08:50	02/13/17 16:44	1
2-Hexanone	<4.4		4.4	1.4	ug/Kg	☼	02/09/17 08:50	02/13/17 16:44	1
Methylene Chloride	<4.4		4.4	1.7	ug/Kg	☼	02/09/17 08:50	02/13/17 16:44	1
Methyl Ethyl Ketone	<4.4		4.4	2.0	ug/Kg	☼	02/09/17 08:50	02/13/17 16:44	1
methyl isobutyl ketone	<4.4		4.4	1.3	ug/Kg	☼	02/09/17 08:50	02/13/17 16:44	1
Methyl tert-butyl ether	<1.8		1.8	0.52	ug/Kg	☼	02/09/17 08:50	02/13/17 16:44	1
Styrene	<1.8		1.8	0.53	ug/Kg	☼	02/09/17 08:50	02/13/17 16:44	1
1,1,2,2-Tetrachloroethane	<1.8		1.8	0.56	ug/Kg	☼	02/09/17 08:50	02/13/17 16:44	1
Tetrachloroethene	<1.8		1.8	0.60	ug/Kg	☼	02/09/17 08:50	02/13/17 16:44	1
Toluene	<1.8		1.8	0.44	ug/Kg	☼	02/09/17 08:50	02/13/17 16:44	1
trans-1,2-Dichloroethene	<1.8		1.8	0.78	ug/Kg	☼	02/09/17 08:50	02/13/17 16:44	1
trans-1,3-Dichloropropene	<1.8		1.8	0.62	ug/Kg	☼	02/09/17 08:50	02/13/17 16:44	1
1,1,1-Trichloroethane	<1.8		1.8	0.59	ug/Kg	☼	02/09/17 08:50	02/13/17 16:44	1
1,1,2-Trichloroethane	<1.8		1.8	0.76	ug/Kg	☼	02/09/17 08:50	02/13/17 16:44	1
Trichloroethene	<1.8		1.8	0.59	ug/Kg	☼	02/09/17 08:50	02/13/17 16:44	1
Vinyl chloride	<1.8		1.8	0.78	ug/Kg	☼	02/09/17 08:50	02/13/17 16:44	1
Xylenes, Total	<3.5		3.5	0.56	ug/Kg	☼	02/09/17 08:50	02/13/17 16:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 120*	*02/09/17 08:50*	*02/13/17 16:44*	*1*
Dibromofluoromethane	*95*		*75 - 120*	*02/09/17 08:50*	*02/13/17 16:44*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*69 - 134*	*02/09/17 08:50*	*02/13/17 16:44*	*1*
Toluene-d8 (Surr)	*110*		*75 - 123*	*02/09/17 08:50*	*02/13/17 16:44*	*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	☼	02/13/17 18:04	02/14/17 14:57	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	02/13/17 18:04	02/14/17 14:57	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	02/13/17 18:04	02/14/17 14:57	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	02/13/17 18:04	02/14/17 14:57	1
2,2'-oxybis[1-chloropropane]	<190		190	45	ug/Kg	☼	02/13/17 18:04	02/14/17 14:57	1

Client Sample ID: A44-12(0-1)-020817
Date Collected: 02/08/17 11:30
Date Received: 02/08/17 17:00

Lab Sample ID: 500-123630-4
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	☼	02/13/17 18:04	02/14/17 14:57	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	02/13/17 18:04	02/14/17 14:57	1
2,4-Dichlorophenol	<380		380	92	ug/Kg	☼	02/13/17 18:04	02/14/17 14:57	1
2,4-Dimethylphenol	<380		380	150	ug/Kg	☼	02/13/17 18:04	02/14/17 14:57	1
2,4-Dinitrophenol	<780	*	780	680	ug/Kg	☼	02/13/17 18:04	02/14/17 14:57	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	02/13/17 18:04	02/14/17 14:57	1
2,6-Dinitrotoluene	<190		190	76	ug/Kg	☼	02/13/17 18:04	02/14/17 14:57	1
2-Chloronaphthalene	<190		190	43	ug/Kg	☼	02/13/17 18:04	02/14/17 14:57	1
2-Chlorophenol	<190		190	66	ug/Kg	☼	02/13/17 18:04	02/14/17 14:57	1
2-Methylnaphthalene	<78		78	7.1	ug/Kg	☼	02/13/17 18:04	02/14/17 14:57	1
2-Methylphenol	<190		190	62	ug/Kg	☼	02/13/17 18:04	02/14/17 14:57	1
2-Nitroaniline	<190		190	52	ug/Kg	☼	02/13/17 18:04	02/14/17 14:57	1
2-Nitrophenol	<380		380	91	ug/Kg	☼	02/13/17 18:04	02/14/17 14:57	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	☼	02/13/17 18:04	02/14/17 14:57	1
3,3'-Dichlorobenzidine	<190		190	54	ug/Kg	☼	02/13/17 18:04	02/14/17 14:57	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	02/13/17 18:04	02/14/17 14:57	1
4,6-Dinitro-2-methylphenol	<780		780	310	ug/Kg	☼	02/13/17 18:04	02/14/17 14:57	1
4-Bromophenyl phenyl ether	<190		190	51	ug/Kg	☼	02/13/17 18:04	02/14/17 14:57	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	02/13/17 18:04	02/14/17 14:57	1
4-Chloroaniline	<780		780	180	ug/Kg	☼	02/13/17 18:04	02/14/17 14:57	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	02/13/17 18:04	02/14/17 14:57	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	02/13/17 18:04	02/14/17 14:57	1
4-Nitrophenol	<780		780	370	ug/Kg	☼	02/13/17 18:04	02/14/17 14:57	1
Acenaphthene	<38		38	6.9	ug/Kg	☼	02/13/17 18:04	02/14/17 14:57	1
Acenaphthylene	<38		38	5.1	ug/Kg	☼	02/13/17 18:04	02/14/17 14:57	1
Anthracene	<38		38	6.4	ug/Kg	☼	02/13/17 18:04	02/14/17 14:57	1
Benzo[a]anthracene	**30**	**J**	38	5.2	ug/Kg	☼	02/13/17 18:04	02/14/17 14:57	1
Benzo[a]pyrene	**36**	**J**	38	7.5	ug/Kg	☼	02/13/17 18:04	02/14/17 14:57	1
Benzo[b]fluoranthene	**55**		38	8.3	ug/Kg	☼	02/13/17 18:04	02/14/17 14:57	1
Benzo[g,h,i]perylene	**23**	**J**	38	12	ug/Kg	☼	02/13/17 18:04	02/14/17 14:57	1
Benzo[k]fluoranthene	**16**	**J**	38	11	ug/Kg	☼	02/13/17 18:04	02/14/17 14:57	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	02/13/17 18:04	02/14/17 14:57	1
Bis(2-chloroethyl)ether	<190		190	58	ug/Kg	☼	02/13/17 18:04	02/14/17 14:57	1
Bis(2-ethylhexyl) phthalate	<190		190	70	ug/Kg	☼	02/13/17 18:04	02/14/17 14:57	1
Butyl benzyl phthalate	<190		190	73	ug/Kg	☼	02/13/17 18:04	02/14/17 14:57	1
Carbazole	<190		190	96	ug/Kg	☼	02/13/17 18:04	02/14/17 14:57	1
Chrysene	**37**	**J**	38	11	ug/Kg	☼	02/13/17 18:04	02/14/17 14:57	1
Dibenz(a,h)anthracene	<38		38	7.4	ug/Kg	☼	02/13/17 18:04	02/14/17 14:57	1
Dibenzofuran	<190		190	45	ug/Kg	☼	02/13/17 18:04	02/14/17 14:57	1
Diethyl phthalate	<190		190	65	ug/Kg	☼	02/13/17 18:04	02/14/17 14:57	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	02/13/17 18:04	02/14/17 14:57	1
Di-n-butyl phthalate	<190		190	59	ug/Kg	☼	02/13/17 18:04	02/14/17 14:57	1
Di-n-octyl phthalate	<190		190	63	ug/Kg	☼	02/13/17 18:04	02/14/17 14:57	1
Fluoranthene	**54**		38	7.1	ug/Kg	☼	02/13/17 18:04	02/14/17 14:57	1
Fluorene	<38		38	5.4	ug/Kg	☼	02/13/17 18:04	02/14/17 14:57	1
Hexachlorobenzene	<78		78	8.9	ug/Kg	☼	02/13/17 18:04	02/14/17 14:57	1
Hexachlorobutadiene	<190		190	61	ug/Kg	☼	02/13/17 18:04	02/14/17 14:57	1
Hexachlorocyclopentadiene	<780		780	220	ug/Kg	☼	02/13/17 18:04	02/14/17 14:57	1
Hexachloroethane	<190		190	59	ug/Kg	☼	02/13/17 18:04	02/14/17 14:57	1

Client Sample ID: A44-12(0-1)-020817
Date Collected: 02/08/17 11:30
Date Received: 02/08/17 17:00

Lab Sample ID: 500-123630-4
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	**25**	**J**	38	10	ug/Kg	☼	02/13/17 18:04	02/14/17 14:57	1
Isophorone	<190		190	43	ug/Kg	☼	02/13/17 18:04	02/14/17 14:57	1
Naphthalene	<38		38	5.9	ug/Kg	☼	02/13/17 18:04	02/14/17 14:57	1
Nitrobenzene	<38		38	9.6	ug/Kg	☼	02/13/17 18:04	02/14/17 14:57	1
N-Nitrosodi-n-propylamine	<78		78	47	ug/Kg	☼	02/13/17 18:04	02/14/17 14:57	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	02/13/17 18:04	02/14/17 14:57	1
Pentachlorophenol	<780		780	620	ug/Kg	☼	02/13/17 18:04	02/14/17 14:57	1
Phenanthrene	**31**	**J**	38	5.4	ug/Kg	☼	02/13/17 18:04	02/14/17 14:57	1
Phenol	<190		190	86	ug/Kg	☼	02/13/17 18:04	02/14/17 14:57	1
Pyrene	**48**		38	7.7	ug/Kg	☼	02/13/17 18:04	02/14/17 14:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*50*		*25 - 130*	*02/13/17 18:04*	*02/14/17 14:57*	*1*
2-Fluorobiphenyl	*77*		*42 - 115*	*02/13/17 18:04*	*02/14/17 14:57*	*1*
2-Fluorophenol	*99*		*40 - 130*	*02/13/17 18:04*	*02/14/17 14:57*	*1*
Nitrobenzene-d5	*94*		*33 - 124*	*02/13/17 18:04*	*02/14/17 14:57*	*1*
Phenol-d5	*100*		*36 - 123*	*02/13/17 18:04*	*02/14/17 14:57*	*1*
Terphenyl-d14	*92*		*25 - 150*	*02/13/17 18:04*	*02/14/17 14:57*	*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		02/14/17 08:49	02/14/17 16:54	1
Barium	**0.51**		0.50	0.050	mg/L		02/14/17 08:49	02/14/17 16:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/14/17 08:49	02/14/17 16:54	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/14/17 08:49	02/14/17 16:54	1
Chromium	<0.025		0.025	0.010	mg/L		02/14/17 08:49	02/14/17 16:54	1
Cobalt	<0.025		0.025	0.010	mg/L		02/14/17 08:49	02/14/17 16:54	1
Copper	**0.016**	**J**	0.025	0.010	mg/L		02/14/17 08:49	02/14/17 16:54	1
Iron	<0.40		0.40	0.20	mg/L		02/14/17 08:49	02/14/17 16:54	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/14/17 08:49	02/14/17 16:54	1
Manganese	**0.90**		0.025	0.010	mg/L		02/14/17 08:49	02/14/17 16:54	1
Nickel	<0.025		0.025	0.010	mg/L		02/14/17 08:49	02/14/17 16:54	1
Selenium	<0.050		0.050	0.020	mg/L		02/14/17 08:49	02/14/17 16:54	1
Silver	<0.025		0.025	0.010	mg/L		02/14/17 08:49	02/14/17 16:54	1
Zinc	**0.041**	**J**	0.50	0.020	mg/L		02/14/17 08:49	02/14/17 16:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.067**		0.050	0.010	mg/L		02/14/17 14:07	02/15/17 11:31	1
Barium	**0.60**		0.50	0.050	mg/L		02/14/17 14:07	02/15/17 11:31	1
Beryllium	**0.0062**		0.0040	0.0040	mg/L		02/14/17 14:07	02/15/17 11:31	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/14/17 14:07	02/15/17 11:31	1
Chromium	**0.14**		0.025	0.010	mg/L		02/14/17 14:07	02/15/17 11:31	1
Cobalt	**0.039**		0.025	0.010	mg/L		02/14/17 14:07	02/15/17 11:31	1
Copper	**0.18**		0.025	0.010	mg/L		02/14/17 14:07	02/15/17 11:31	1
Iron	**160**		0.40	0.20	mg/L		02/14/17 14:07	02/15/17 11:31	1
Lead	**0.17**		0.0075	0.0075	mg/L		02/14/17 14:07	02/15/17 11:31	1
Manganese	**0.75**		0.025	0.010	mg/L		02/14/17 14:07	02/15/17 11:31	1
Nickel	**0.16**		0.025	0.010	mg/L		02/14/17 14:07	02/15/17 11:31	1
Selenium	<0.050		0.050	0.020	mg/L		02/14/17 14:07	02/15/17 11:31	1

Client Sample ID: A44-12(0-1)-020817
Date Collected: 02/08/17 11:30
Date Received: 02/08/17 17:00

Lab Sample ID: 500-123630-4
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		02/14/17 14:07	02/15/17 11:31	1
Zinc	**0.70**		0.50	0.020	mg/L		02/14/17 14:07	02/15/17 11:31	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	☼	02/11/17 10:34	02/12/17 00:33	1
Arsenic	**7.0**		0.57	0.26	mg/Kg	☼	02/11/17 10:34	02/12/17 00:33	1
Barium	**71**		0.57	0.10	mg/Kg	☼	02/11/17 10:34	02/12/17 00:33	1
Beryllium	**0.49**		0.23	0.050	mg/Kg	☼	02/11/17 10:34	02/12/17 00:33	1
Cadmium	**0.27**		0.11	0.033	mg/Kg	☼	02/11/17 10:34	02/12/17 00:33	1
Calcium	**5300**	**B**	11	3.7	mg/Kg	☼	02/11/17 10:34	02/12/17 00:33	1
Chromium	**13**	**B**	0.57	0.099	mg/Kg	☼	02/11/17 10:34	02/12/17 00:33	1
Cobalt	**10**		0.29	0.065	mg/Kg	☼	02/11/17 10:34	02/12/17 00:33	1
Copper	**17**		0.57	0.12	mg/Kg	☼	02/11/17 10:34	02/12/17 00:33	1
Iron	**17000**	**B**	11	4.4	mg/Kg	☼	02/11/17 10:34	02/12/17 00:33	1
Lead	**37**	**B**	0.29	0.14	mg/Kg	☼	02/11/17 10:34	02/12/17 00:33	1
Magnesium	**4500**	**B**	5.7	2.3	mg/Kg	☼	02/11/17 10:34	02/12/17 00:33	1
Manganese	**480**		0.57	0.11	mg/Kg	☼	02/11/17 10:34	02/12/17 00:33	1
Nickel	**21**		0.57	0.16	mg/Kg	☼	02/11/17 10:34	02/12/17 00:33	1
Potassium	**930**		29	4.7	mg/Kg	☼	02/11/17 10:34	02/12/17 00:33	1
Selenium	**0.82**		0.57	0.28	mg/Kg	☼	02/11/17 10:34	02/12/17 00:33	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	02/11/17 10:34	02/12/17 00:33	1
Sodium	**1000**		57	7.6	mg/Kg	☼	02/11/17 10:34	02/12/17 00:33	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	02/11/17 10:34	02/12/17 00:33	1
Vanadium	**18**		0.29	0.084	mg/Kg	☼	02/11/17 10:34	02/12/17 00:33	1
Zinc	**92**		1.1	0.36	mg/Kg	☼	02/11/17 10:34	02/12/17 00:33	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		02/14/17 13:00	02/15/17 09:42	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		02/14/17 13:00	02/15/17 10:24	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**21**		19	9.8	ug/Kg	☼	02/10/17 16:45	02/13/17 11:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.6**		0.2	0.2	SU			02/13/17 14:06	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
*	LCS or LCSD is outside acceptance limits.
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

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.
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: 500-123630-1

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 ENVIRONMENTA

2417 Bond Street, University Park, IL
Phone: 708.534.5200 Fax: 708.5

500-123630 COC

(optional)

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

(optional)

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

Chain of Custody Record

Lab Job #: 500-123630
Chain of Custody Number:
Page 5 of 6
Temperature °C of Cooler: 4.3 3.4 2.2 2.9 4.0 3.6

Client	Client Project #
Weston Solution	
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	VOCs	SVOCs	Total Metals	TCLP/SPLP Metals	pH
1		A44-9(0-1)-020817	2/8/17	10:45	6	SO					
2		A44-10(0-1)-020817		11:00							
3		A44-11(0-1)-020817		11:10							
4		A44-12(0-1)-020817		11:30							
5		R43-1(0-1)-020817		12:15							
6		R43-1(0-1)-020817D		12:15							
7		R43-2(0-1)-020817		12:45							
8		M42-1(0-1)-020817		12:55							
9		M42-2(0-1)-020817		13:10							
10		R41-1(0-1)-020817		13:20							

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

Comments

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
Andrew Tay	Weston	2/8/17	1700	[signature]	TA	2/8/17	1700
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

Chain of Custody Record

Report To (optional)
Contact: S. Balasubkumar
Company: Weston Solutions
Address: 300 Plaza Cir, Ste 202
Address: Mundelein, IL 60060
Phone: 224-864-7200
Fax:
E-Mail:

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

Lab Job #: 500-123630
Chain of Custody Number:
Page 6 of 6
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

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	VOCs	SVOCs	TOTAL METALS	TCLP/SPLP METALS	pH					Comments
11		R41-2 (0-1)-020817	2/8/17	13:30	6	SO	X	X	X	X	X					
12		A38-1(0-1)-020817	↓	13:45	↓	↓	X	X	X	X	X					
13		A38-2(0-1)-020817	↓	14:00	↓	↓	X	X	X	X	X					
14		A38-3(0-1)-020817	↓	14:15	↓	↓	X	X	X	X	X					
15		A38-4(0-1)-020817	↓	14:30	↓	↓	X	X	X	X	X					
16		A38-5(0-1)-020817	↓	14:45	↓	↓	X	X	X	X	X					
17		A38-5(0-1)-020817D	↓	14:45	↓	↓	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 ☒ 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	2/8/17	1700	[signature]	TA	2/8/17	1700

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:

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):
31940 S. Dixie Highway, (ISGS Site No. 3140-45)

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: 41.309627604 (Decimal Degrees) Longitude: -87.621306390 (-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: 41.309627604 Longitude: -87.621306390

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 F45-2 WAS SAMPLED ADJACENT TO ISGS SITE No. 3140-45. SEE FIGURE 3-2 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.
ALSO SEE FIGURE 4-2 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. 3140-45
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	F45-2(0-1)-020717	F45-2(0-1)-020717D	**Soil Reference Concentrations[A]**
Sample Date	2/7/2017	2/7/2017	
Location ID	F45-2	F45-2	
Depth	0 - 1	0 - 1	
ISGS Site No.	3140-45	3140-45	
Parameter			
Laboratory pH (s.u.)	8.1	7.9	<6.25, >9.0
VOCs	None Detected		
SVOCs (ug/kg)			
2-Methylnaphthalene	14 J	ND	---
Acenaphthene	270	12 J	570000
Acenaphthylene	ND	ND	---
Anthracene	640	14 J	1.2E+07
Benzo(a)anthracene	1400	53 J	900 / 1100 / 1800
Benzo(a)pyrene	1100 J	56 J	90 / 1300 / 2100
Benzo(b)fluoranthene	1900 J	120 J	900 / 1500 /2100
Benzo(g,h,i)perylene	340 J	31 J	---
Benzo(k)fluoranthene	780 J	36 J	9000
bis(2-Ethylhexyl)phthalate	87 J	ND	46000
Carbazole	250	ND	600
Chrysene	1300	67 J	88000
Dibenzo(a,h)anthracene	110 J	ND	90 / 200 / 420
Dibenzofuran	99 J	ND	---
Fluoranthene	4100 J	130 J	3100000
Fluorene	310	12 J	560000
Indeno(1,2,3-cd)pyrene	340 J	ND	900 / 900 / 1600
Naphthalene, SVOC	9.9 J	ND	1800
Phenanthrene	2800 J	75 J	
Pyrene	4500 J	150 J	2300000
Total Metals (mg/kg)			
Antimony, Total	0.36 J	0.26 J	5
Arsenic, Total	5.8	5.9	11.3 / 13.0
Barium, Total	56	51	1500
Beryllium, Total	0.56	0.57	22
Cadmium, Total	0.39	0.32	5.2
Calcium, Total	17000 B	19000 B	---
Chromium, Total	16 B	17 B	21
Cobalt, Total	10	10	20
Copper, Total	22	20	2900
Iron, Total	15000 B	15000 B	15000 / 15900
Lead, Total	75 B	84 B	107
Magnesium, Total	12000 B	13000 B	325000
Manganese, Total	360 B	320 B	630 / 636
Mercury, Total	0.018	0.031	0.89
Nickel, Total	23	23	100
Potassium, Total	1600 B	1500 B	---
Selenium, Total	0.52	0.43 J	1.3
Silver, Total	ND	ND	4.4
Sodium, Total	910	850	---
Thallium, Total	ND	ND	2.6
Vanadium, Total	18	18	550
Zinc, Total	78	79	5100
TCLP Metals (mg/l)			
Arsenic, TCLP	ND	ND	0.05
Barium, TCLP	0.32 J	0.31 J	2
Cadmium, TCLP	ND	ND	0.005
Chromium, TCLP	ND	ND	0.1
Cobalt, TCLP	ND	ND	1
Copper, TCLP	ND	ND	0.65
Iron, TCLP	ND	ND	5
Lead, TCLP	0.009	ND	0.0075
Manganese, TCLP	0.54	0.59	0.15
Nickel, TCLP	ND	ND	0.1
Selenium, TCLP	ND	ND	0.05
Zinc, TCLP	0.075 J	0.057 J	5

Summary Table of ISGS Site No. 3140-45
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	F45-2(0-1)-020717	F45-2(0-1)-020717D	**Soil Reference Concentrations[A]**
Sample Date	2/7/2017	2/7/2017	
Location ID	F45-2	F45-2	
Depth	0 - 1	0 - 1	
ISGS Site No.	3140-45	3140-45	
Parameter			
SPLP Metals (mg/l)			
Arsenic, SPLP	0.058	0.056	0.05
Barium, SPLP	0.62	0.53	2
Beryllium, SPLP	0.0081	0.0071	0.004
Cadmium, SPLP	ND	ND	0.005
Chromium, SPLP	0.19	0.18	0.1
Cobalt, SPLP	0.055	0.046	1
Copper, SPLP	0.19	0.26	0.65
Iron, SPLP	190	170	5
Lead, SPLP	0.35	0.32	0.0075
Manganese, SPLP	1.3	1.1	0.15
Mercury, SPLP	ND	ND	0.002
Nickel, SPLP	0.21	0.18	0.1
Zinc, SPLP	0.63	0.59	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: F45-2(0-1)-020717
Date Collected: 02/07/17 15:28
Date Received: 02/07/17 16:56

Lab Sample ID: 500-123558-3
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	<18		18	8.0	ug/Kg	☼	02/08/17 09:20	02/10/17 17:51	1
Benzene	<1.8		1.8	0.47	ug/Kg	☼	02/08/17 09:20	02/10/17 17:51	1
Bromodichloromethane	<1.8		1.8	0.37	ug/Kg	☼	02/08/17 09:20	02/10/17 17:51	1
Bromoform	<1.8		1.8	0.54	ug/Kg	☼	02/08/17 09:20	02/10/17 17:51	1
Bromomethane	<4.6		4.6	1.7	ug/Kg	☼	02/08/17 09:20	02/10/17 17:51	1
Carbon disulfide	<4.6		4.6	0.96	ug/Kg	☼	02/08/17 09:20	02/10/17 17:51	1
Carbon tetrachloride	<1.8		1.8	0.53	ug/Kg	☼	02/08/17 09:20	02/10/17 17:51	1
Chlorobenzene	<1.8		1.8	0.68	ug/Kg	☼	02/08/17 09:20	02/10/17 17:51	1
Chloroethane	<4.6		4.6	1.4	ug/Kg	☼	02/08/17 09:20	02/10/17 17:51	1
Chloroform	<1.8		1.8	0.64	ug/Kg	☼	02/08/17 09:20	02/10/17 17:51	1
Chloromethane	<4.6		4.6	1.9	ug/Kg	☼	02/08/17 09:20	02/10/17 17:51	1
cis-1,2-Dichloroethene	<1.8		1.8	0.51	ug/Kg	☼	02/08/17 09:20	02/10/17 17:51	1
cis-1,3-Dichloropropene	<1.8		1.8	0.56	ug/Kg	☼	02/08/17 09:20	02/10/17 17:51	1
Dibromochloromethane	<1.8		1.8	0.60	ug/Kg	☼	02/08/17 09:20	02/10/17 17:51	1
1,1-Dichloroethane	<1.8		1.8	0.63	ug/Kg	☼	02/08/17 09:20	02/10/17 17:51	1
1,2-Dichloroethane	<4.6		4.6	1.4	ug/Kg	☼	02/08/17 09:20	02/10/17 17:51	1
1,1-Dichloroethene	<1.8		1.8	0.63	ug/Kg	☼	02/08/17 09:20	02/10/17 17:51	1
1,2-Dichloropropane	<1.8		1.8	0.48	ug/Kg	☼	02/08/17 09:20	02/10/17 17:51	1
1,3-Dichloropropene, Total	<1.8		1.8	0.65	ug/Kg	☼	02/08/17 09:20	02/10/17 17:51	1
Ethylbenzene	<1.8		1.8	0.88	ug/Kg	☼	02/08/17 09:20	02/10/17 17:51	1
2-Hexanone	<4.6		4.6	1.4	ug/Kg	☼	02/08/17 09:20	02/10/17 17:51	1
Methylene Chloride	<4.6		4.6	1.8	ug/Kg	☼	02/08/17 09:20	02/10/17 17:51	1
Methyl Ethyl Ketone	<4.6		4.6	2.0	ug/Kg	☼	02/08/17 09:20	02/10/17 17:51	1
methyl isobutyl ketone	<4.6		4.6	1.4	ug/Kg	☼	02/08/17 09:20	02/10/17 17:51	1
Methyl tert-butyl ether	<1.8		1.8	0.54	ug/Kg	☼	02/08/17 09:20	02/10/17 17:51	1
Styrene	<1.8		1.8	0.56	ug/Kg	☼	02/08/17 09:20	02/10/17 17:51	1
1,1,2,2-Tetrachloroethane	<1.8		1.8	0.59	ug/Kg	☼	02/08/17 09:20	02/10/17 17:51	1
Tetrachloroethene	<1.8		1.8	0.63	ug/Kg	☼	02/08/17 09:20	02/10/17 17:51	1
Toluene	<1.8		1.8	0.47	ug/Kg	☼	02/08/17 09:20	02/10/17 17:51	1
trans-1,2-Dichloroethene	<1.8		1.8	0.82	ug/Kg	☼	02/08/17 09:20	02/10/17 17:51	1
trans-1,3-Dichloropropene	<1.8		1.8	0.65	ug/Kg	☼	02/08/17 09:20	02/10/17 17:51	1
1,1,1-Trichloroethane	<1.8		1.8	0.62	ug/Kg	☼	02/08/17 09:20	02/10/17 17:51	1
1,1,2-Trichloroethane	<1.8		1.8	0.79	ug/Kg	☼	02/08/17 09:20	02/10/17 17:51	1
Trichloroethene	<1.8		1.8	0.62	ug/Kg	☼	02/08/17 09:20	02/10/17 17:51	1
Vinyl chloride	<1.8		1.8	0.81	ug/Kg	☼	02/08/17 09:20	02/10/17 17:51	1
Xylenes, Total	<3.7		3.7	0.59	ug/Kg	☼	02/08/17 09:20	02/10/17 17:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 120*	*02/08/17 09:20*	*02/10/17 17:51*	*1*
Dibromofluoromethane	*102*		*75 - 120*	*02/08/17 09:20*	*02/10/17 17:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*69 - 134*	*02/08/17 09:20*	*02/10/17 17:51*	*1*
Toluene-d8 (Surr)	*96*		*75 - 123*	*02/08/17 09:20*	*02/10/17 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	<200		200	42	ug/Kg	☼	02/10/17 07:09	02/13/17 13:41	1
1,2-Dichlorobenzene	<200		200	47	ug/Kg	☼	02/10/17 07:09	02/13/17 13:41	1
1,3-Dichlorobenzene	<200		200	44	ug/Kg	☼	02/10/17 07:09	02/13/17 13:41	1
1,4-Dichlorobenzene	<200		200	51	ug/Kg	☼	02/10/17 07:09	02/13/17 13:41	1
2,2'-oxybis[1-chloropropane]	<200		200	46	ug/Kg	☼	02/10/17 07:09	02/13/17 13:41	1

Client Sample ID: F45-2(0-1)-020717
Date Collected: 02/07/17 15:28
Date Received: 02/07/17 16:56

Lab Sample ID: 500-123558-3
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	<390		390	90	ug/Kg	☼	02/10/17 07:09	02/13/17 13:41	1
2,4,6-Trichlorophenol	<390		390	140	ug/Kg	☼	02/10/17 07:09	02/13/17 13:41	1
2,4-Dichlorophenol	<390		390	94	ug/Kg	☼	02/10/17 07:09	02/13/17 13:41	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	02/10/17 07:09	02/13/17 13:41	1
2,4-Dinitrophenol	<790		790	690	ug/Kg	☼	02/10/17 07:09	02/13/17 13:41	1
2,4-Dinitrotoluene	<200		200	63	ug/Kg	☼	02/10/17 07:09	02/13/17 13:41	1
2,6-Dinitrotoluene	<200		200	77	ug/Kg	☼	02/10/17 07:09	02/13/17 13:41	1
2-Chloronaphthalene	<200		200	44	ug/Kg	☼	02/10/17 07:09	02/13/17 13:41	1
2-Chlorophenol	<200		200	67	ug/Kg	☼	02/10/17 07:09	02/13/17 13:41	1
2-Methylnaphthalene	**14**	**J**	79	7.2	ug/Kg	☼	02/10/17 07:09	02/13/17 13:41	1
2-Methylphenol	<200		200	63	ug/Kg	☼	02/10/17 07:09	02/13/17 13:41	1
2-Nitroaniline	<200		200	53	ug/Kg	☼	02/10/17 07:09	02/13/17 13:41	1
2-Nitrophenol	<390		390	93	ug/Kg	☼	02/10/17 07:09	02/13/17 13:41	1
3 & 4 Methylphenol	<200		200	66	ug/Kg	☼	02/10/17 07:09	02/13/17 13:41	1
3,3'-Dichlorobenzidine	<200		200	55	ug/Kg	☼	02/10/17 07:09	02/13/17 13:41	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	02/10/17 07:09	02/13/17 13:41	1
4,6-Dinitro-2-methylphenol	<790		790	320	ug/Kg	☼	02/10/17 07:09	02/13/17 13:41	1
4-Bromophenyl phenyl ether	<200		200	52	ug/Kg	☼	02/10/17 07:09	02/13/17 13:41	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	02/10/17 07:09	02/13/17 13:41	1
4-Chloroaniline	<790		790	180	ug/Kg	☼	02/10/17 07:09	02/13/17 13:41	1
4-Chlorophenyl phenyl ether	<200		200	46	ug/Kg	☼	02/10/17 07:09	02/13/17 13:41	1
4-Nitroaniline	<390		390	160	ug/Kg	☼	02/10/17 07:09	02/13/17 13:41	1
4-Nitrophenol	<790		790	370	ug/Kg	☼	02/10/17 07:09	02/13/17 13:41	1
Acenaphthene	**270**		39	7.1	ug/Kg	☼	02/10/17 07:09	02/13/17 13:41	1
Acenaphthylene	<39		39	5.2	ug/Kg	☼	02/10/17 07:09	02/13/17 13:41	1
Anthracene	**640**		39	6.6	ug/Kg	☼	02/10/17 07:09	02/13/17 13:41	1
Benzo[a]anthracene	**1400**		39	5.3	ug/Kg	☼	02/10/17 07:09	02/13/17 13:41	1
Benzo[a]pyrene	**1100**	*	39	7.6	ug/Kg	☼	02/10/17 07:09	02/13/17 13:41	1
Benzo[b]fluoranthene	**1900**	*	39	8.5	ug/Kg	☼	02/10/17 07:09	02/13/17 13:41	1
Benzo[g,h,i]perylene	**340**	*	39	13	ug/Kg	☼	02/10/17 07:09	02/13/17 13:41	1
Benzo[k]fluoranthene	**780**	*	39	12	ug/Kg	☼	02/10/17 07:09	02/13/17 13:41	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	☼	02/10/17 07:09	02/13/17 13:41	1
Bis(2-chloroethyl)ether	<200		200	59	ug/Kg	☼	02/10/17 07:09	02/13/17 13:41	1
Bis(2-ethylhexyl) phthalate	**87**	**J**	200	72	ug/Kg	☼	02/10/17 07:09	02/13/17 13:41	1
Butyl benzyl phthalate	<200		200	75	ug/Kg	☼	02/10/17 07:09	02/13/17 13:41	1
Carbazole	**250**		200	98	ug/Kg	☼	02/10/17 07:09	02/13/17 13:41	1
Chrysene	**1300**		39	11	ug/Kg	☼	02/10/17 07:09	02/13/17 13:41	1
Dibenz(a,h)anthracene	**110**	*	39	7.6	ug/Kg	☼	02/10/17 07:09	02/13/17 13:41	1
Dibenzofuran	**99**	**J**	200	46	ug/Kg	☼	02/10/17 07:09	02/13/17 13:41	1
Diethyl phthalate	<200		200	67	ug/Kg	☼	02/10/17 07:09	02/13/17 13:41	1
Dimethyl phthalate	<200		200	51	ug/Kg	☼	02/10/17 07:09	02/13/17 13:41	1
Di-n-butyl phthalate	<200		200	60	ug/Kg	☼	02/10/17 07:09	02/13/17 13:41	1
Di-n-octyl phthalate	<200		200	64	ug/Kg	☼	02/10/17 07:09	02/13/17 13:41	1
Fluorene	**310**		39	5.5	ug/Kg	☼	02/10/17 07:09	02/13/17 13:41	1
Hexachlorobenzene	<79		79	9.1	ug/Kg	☼	02/10/17 07:09	02/13/17 13:41	1
Hexachlorobutadiene	<200		200	62	ug/Kg	☼	02/10/17 07:09	02/13/17 13:41	1
Hexachlorocyclopentadiene	<790		790	230	ug/Kg	☼	02/10/17 07:09	02/13/17 13:41	1
Hexachloroethane	<200		200	60	ug/Kg	☼	02/10/17 07:09	02/13/17 13:41	1
Indeno[1,2,3-cd]pyrene	**340**	*	39	10	ug/Kg	☼	02/10/17 07:09	02/13/17 13:41	1

Client Sample ID: F45-2(0-1)-020717
Date Collected: 02/07/17 15:28
Date Received: 02/07/17 16:56

Lab Sample ID: 500-123558-3
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
Isophorone	<200		200	44	ug/Kg	☼	02/10/17 07:09	02/13/17 13:41	1
Naphthalene	**9.9**	**J**	39	6.1	ug/Kg	☼	02/10/17 07:09	02/13/17 13:41	1
Nitrobenzene	<39		39	9.8	ug/Kg	☼	02/10/17 07:09	02/13/17 13:41	1
N-Nitrosodi-n-propylamine	<79		79	48	ug/Kg	☼	02/10/17 07:09	02/13/17 13:41	1
N-Nitrosodiphenylamine	<200		200	46	ug/Kg	☼	02/10/17 07:09	02/13/17 13:41	1
Pentachlorophenol	<790		790	630	ug/Kg	☼	02/10/17 07:09	02/13/17 13:41	1
Phenol	<200		200	87	ug/Kg	☼	02/10/17 07:09	02/13/17 13:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*117*		*25 - 130*	*02/10/17 07:09*	*02/13/17 13:41*	*1*
2-Fluorobiphenyl	*81*		*42 - 115*	*02/10/17 07:09*	*02/13/17 13:41*	*1*
2-Fluorophenol	*84*		*40 - 130*	*02/10/17 07:09*	*02/13/17 13:41*	*1*
Nitrobenzene-d5	*72*		*33 - 124*	*02/10/17 07:09*	*02/13/17 13:41*	*1*
Phenol-d5	*76*		*36 - 123*	*02/10/17 07:09*	*02/13/17 13:41*	*1*
Terphenyl-d14	*157*	*X*	*25 - 150*	*02/10/17 07:09*	*02/13/17 13:41*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	**4100**		200	37	ug/Kg	☼	02/10/17 07:09	02/14/17 02:39	5
Phenanthrene	**2800**		200	27	ug/Kg	☼	02/10/17 07:09	02/14/17 02:39	5
Pyrene	**4500**		200	39	ug/Kg	☼	02/10/17 07:09	02/14/17 02:39	5

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 16:11	1
Barium	**0.32**	**J**	0.50	0.050	mg/L		02/13/17 08:21	02/13/17 16:11	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/13/17 08:21	02/13/17 16:11	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/13/17 08:21	02/13/17 16:11	1
Chromium	<0.025		0.025	0.010	mg/L		02/13/17 08:21	02/13/17 16:11	1
Cobalt	<0.025		0.025	0.010	mg/L		02/13/17 08:21	02/13/17 16:11	1
Copper	<0.025		0.025	0.010	mg/L		02/13/17 08:21	02/13/17 16:11	1
Iron	<0.40		0.40	0.20	mg/L		02/13/17 08:21	02/13/17 16:11	1
Lead	**0.0090**		0.0075	0.0075	mg/L		02/13/17 08:21	02/13/17 16:11	1
Manganese	**0.54**		0.025	0.010	mg/L		02/13/17 08:21	02/13/17 16:11	1
Nickel	<0.025		0.025	0.010	mg/L		02/13/17 08:21	02/13/17 16:11	1
Selenium	<0.050		0.050	0.020	mg/L		02/13/17 08:21	02/13/17 16:11	1
Silver	<0.025		0.025	0.010	mg/L		02/13/17 08:21	02/13/17 16:11	1
Zinc	**0.075**	**J**	0.50	0.020	mg/L		02/13/17 08:21	02/13/17 16:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.058**		0.050	0.010	mg/L		02/11/17 10:11	02/13/17 15:55	1
Barium	**0.62**		0.50	0.050	mg/L		02/11/17 10:11	02/13/17 15:55	1
Beryllium	**0.0081**		0.0040	0.0040	mg/L		02/11/17 10:11	02/13/17 15:55	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/11/17 10:11	02/13/17 15:55	1
Chromium	**0.19**		0.025	0.010	mg/L		02/11/17 10:11	02/13/17 15:55	1
Cobalt	**0.055**		0.025	0.010	mg/L		02/11/17 10:11	02/13/17 15:55	1
Copper	**0.19**		0.025	0.010	mg/L		02/11/17 10:11	02/13/17 15:55	1
Iron	**190**		0.40	0.20	mg/L		02/11/17 10:11	02/13/17 15:55	1
Lead	**0.35**		0.0075	0.0075	mg/L		02/11/17 10:11	02/13/17 15:55	1

Client Sample ID: F45-2(0-1)-020717
Date Collected: 02/07/17 15:28
Date Received: 02/07/17 16:56

Lab Sample ID: 500-123558-3
Matrix: Solid
Percent Solids: 82.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1.3		0.025	0.010	mg/L		02/11/17 10:11	02/13/17 15:55	1
Nickel	0.21		0.025	0.010	mg/L		02/11/17 10:11	02/13/17 15:55	1
Selenium	<0.050		0.050	0.020	mg/L		02/11/17 10:11	02/13/17 15:55	1
Silver	<0.025		0.025	0.010	mg/L		02/11/17 10:11	02/13/17 15:55	1
Zinc	0.63		0.50	0.020	mg/L		02/11/17 10:11	02/13/17 15:55	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.36	J	0.97	0.20	mg/Kg	☼	02/10/17 08:30	02/11/17 03:49	1
Arsenic	5.8		0.49	0.22	mg/Kg	☼	02/10/17 08:30	02/11/17 03:49	1
Barium	56		0.49	0.089	mg/Kg	☼	02/10/17 08:30	02/11/17 03:49	1
Beryllium	0.56		0.19	0.042	mg/Kg	☼	02/10/17 08:30	02/11/17 03:49	1
Cadmium	0.39		0.097	0.028	mg/Kg	☼	02/10/17 08:30	02/11/17 03:49	1
Calcium	17000	B	9.7	3.1	mg/Kg	☼	02/10/17 08:30	02/11/17 03:49	1
Chromium	16	B	0.49	0.083	mg/Kg	☼	02/10/17 08:30	02/11/17 03:49	1
Cobalt	10		0.24	0.055	mg/Kg	☼	02/10/17 08:30	02/11/17 03:49	1
Copper	22		0.49	0.11	mg/Kg	☼	02/10/17 08:30	02/11/17 03:49	1
Iron	15000	B	9.7	3.7	mg/Kg	☼	02/10/17 08:30	02/11/17 03:49	1
Lead	75	B	0.24	0.12	mg/Kg	☼	02/10/17 08:30	02/11/17 03:49	1
Magnesium	12000	B	4.9	2.0	mg/Kg	☼	02/10/17 08:30	02/11/17 03:49	1
Manganese	360	B	0.49	0.096	mg/Kg	☼	02/10/17 08:30	02/11/17 03:49	1
Nickel	23		0.49	0.13	mg/Kg	☼	02/10/17 08:30	02/11/17 03:49	1
Potassium	1600	B	24	4.0	mg/Kg	☼	02/10/17 08:30	02/11/17 03:49	1
Selenium	0.52		0.49	0.24	mg/Kg	☼	02/10/17 08:30	02/11/17 03:49	1
Silver	<0.24		0.24	0.057	mg/Kg	☼	02/10/17 08:30	02/11/17 03:49	1
Sodium	910		49	6.4	mg/Kg	☼	02/10/17 08:30	02/11/17 03:49	1
Thallium	<0.49		0.49	0.24	mg/Kg	☼	02/10/17 08:30	02/11/17 03:49	1
Vanadium	18		0.24	0.071	mg/Kg	☼	02/10/17 08:30	02/11/17 03:49	1
Zinc	78		0.97	0.31	mg/Kg	☼	02/10/17 08:30	02/11/17 03:49	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		02/13/17 11:45	02/14/17 11:23	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 09:09	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	18		18	9.5	ug/Kg	☼	02/09/17 16:15	02/10/17 10:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.1		0.2	0.2	SU			02/11/17 11:19	1

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

TestAmerica Job ID: 500-123558-1

Client Sample ID: F45-2(0-1)-020717D
Date Collected: 02/07/17 15:28
Date Received: 02/07/17 16:56

Lab Sample ID: 500-123558-4
Matrix: Solid
Percent Solids: 81.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<16		16	7.2	ug/Kg	☼	02/08/17 09:20	02/10/17 18:16	1
Benzene	<1.6		1.6	0.42	ug/Kg	☼	02/08/17 09:20	02/10/17 18:16	1
Bromodichloromethane	<1.6		1.6	0.34	ug/Kg	☼	02/08/17 09:20	02/10/17 18:16	1
Bromoform	<1.6		1.6	0.48	ug/Kg	☼	02/08/17 09:20	02/10/17 18:16	1
Bromomethane	<4.1		4.1	1.6	ug/Kg	☼	02/08/17 09:20	02/10/17 18:16	1
Carbon disulfide	<4.1		4.1	0.86	ug/Kg	☼	02/08/17 09:20	02/10/17 18:16	1
Carbon tetrachloride	<1.6		1.6	0.48	ug/Kg	☼	02/08/17 09:20	02/10/17 18:16	1
Chlorobenzene	<1.6		1.6	0.61	ug/Kg	☼	02/08/17 09:20	02/10/17 18:16	1
Chloroethane	<4.1		4.1	1.2	ug/Kg	☼	02/08/17 09:20	02/10/17 18:16	1
Chloroform	<1.6		1.6	0.57	ug/Kg	☼	02/08/17 09:20	02/10/17 18:16	1
Chloromethane	<4.1		4.1	1.7	ug/Kg	☼	02/08/17 09:20	02/10/17 18:16	1
cis-1,2-Dichloroethene	<1.6		1.6	0.46	ug/Kg	☼	02/08/17 09:20	02/10/17 18:16	1
cis-1,3-Dichloropropene	<1.6		1.6	0.50	ug/Kg	☼	02/08/17 09:20	02/10/17 18:16	1
Dibromochloromethane	<1.6		1.6	0.54	ug/Kg	☼	02/08/17 09:20	02/10/17 18:16	1
1,1-Dichloroethane	<1.6		1.6	0.57	ug/Kg	☼	02/08/17 09:20	02/10/17 18:16	1
1,2-Dichloroethane	<4.1		4.1	1.3	ug/Kg	☼	02/08/17 09:20	02/10/17 18:16	1
1,1-Dichloroethene	<1.6		1.6	0.57	ug/Kg	☼	02/08/17 09:20	02/10/17 18:16	1
1,2-Dichloropropane	<1.6		1.6	0.43	ug/Kg	☼	02/08/17 09:20	02/10/17 18:16	1
1,3-Dichloropropene, Total	<1.6		1.6	0.58	ug/Kg	☼	02/08/17 09:20	02/10/17 18:16	1
Ethylbenzene	<1.6		1.6	0.79	ug/Kg	☼	02/08/17 09:20	02/10/17 18:16	1
2-Hexanone	<4.1		4.1	1.3	ug/Kg	☼	02/08/17 09:20	02/10/17 18:16	1
Methylene Chloride	<4.1		4.1	1.6	ug/Kg	☼	02/08/17 09:20	02/10/17 18:16	1
Methyl Ethyl Ketone	<4.1		4.1	1.8	ug/Kg	☼	02/08/17 09:20	02/10/17 18:16	1
methyl isobutyl ketone	<4.1		4.1	1.2	ug/Kg	☼	02/08/17 09:20	02/10/17 18:16	1
Methyl tert-butyl ether	<1.6		1.6	0.48	ug/Kg	☼	02/08/17 09:20	02/10/17 18:16	1
Styrene	<1.6		1.6	0.50	ug/Kg	☼	02/08/17 09:20	02/10/17 18:16	1
1,1,2,2-Tetrachloroethane	<1.6		1.6	0.53	ug/Kg	☼	02/08/17 09:20	02/10/17 18:16	1
Tetrachloroethene	<1.6		1.6	0.56	ug/Kg	☼	02/08/17 09:20	02/10/17 18:16	1
Toluene	<1.6		1.6	0.42	ug/Kg	☼	02/08/17 09:20	02/10/17 18:16	1
trans-1,2-Dichloroethene	<1.6		1.6	0.73	ug/Kg	☼	02/08/17 09:20	02/10/17 18:16	1
trans-1,3-Dichloropropene	<1.6		1.6	0.58	ug/Kg	☼	02/08/17 09:20	02/10/17 18:16	1
1,1,1-Trichloroethane	<1.6		1.6	0.55	ug/Kg	☼	02/08/17 09:20	02/10/17 18:16	1
1,1,2-Trichloroethane	<1.6		1.6	0.71	ug/Kg	☼	02/08/17 09:20	02/10/17 18:16	1
Trichloroethene	<1.6		1.6	0.56	ug/Kg	☼	02/08/17 09:20	02/10/17 18:16	1
Vinyl chloride	<1.6		1.6	0.73	ug/Kg	☼	02/08/17 09:20	02/10/17 18:16	1
Xylenes, Total	<3.3		3.3	0.53	ug/Kg	☼	02/08/17 09:20	02/10/17 18:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 120*	*02/08/17 09:20*	*02/10/17 18:16*	*1*
Dibromofluoromethane	*110*		*75 - 120*	*02/08/17 09:20*	*02/10/17 18:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*112*		*69 - 134*	*02/08/17 09:20*	*02/10/17 18:16*	*1*
Toluene-d8 (Surr)	*102*		*75 - 123*	*02/08/17 09:20*	*02/10/17 18:16*	*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	☼	02/10/17 07:09	02/14/17 03:05	1
1,2-Dichlorobenzene	<200		200	48	ug/Kg	☼	02/10/17 07:09	02/14/17 03:05	1
1,3-Dichlorobenzene	<200		200	45	ug/Kg	☼	02/10/17 07:09	02/14/17 03:05	1
1,4-Dichlorobenzene	<200		200	51	ug/Kg	☼	02/10/17 07:09	02/14/17 03:05	1
2,2'-oxybis[1-chloropropane]	<200		200	46	ug/Kg	☼	02/10/17 07:09	02/14/17 03:05	1

Client Sample ID: F45-2(0-1)-020717D
Date Collected: 02/07/17 15:28
Date Received: 02/07/17 16:56

Lab Sample ID: 500-123558-4
Matrix: Solid
Percent Solids: 81.2

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	☼	02/10/17 07:09	02/14/17 03:05	1
2,4,6-Trichlorophenol	<400		400	140	ug/Kg	☼	02/10/17 07:09	02/14/17 03:05	1
2,4-Dichlorophenol	<400		400	95	ug/Kg	☼	02/10/17 07:09	02/14/17 03:05	1
2,4-Dimethylphenol	<400		400	150	ug/Kg	☼	02/10/17 07:09	02/14/17 03:05	1
2,4-Dinitrophenol	<810		810	710	ug/Kg	☼	02/10/17 07:09	02/14/17 03:05	1
2,4-Dinitrotoluene	<200		200	64	ug/Kg	☼	02/10/17 07:09	02/14/17 03:05	1
2,6-Dinitrotoluene	<200		200	79	ug/Kg	☼	02/10/17 07:09	02/14/17 03:05	1
2-Chloronaphthalene	<200		200	44	ug/Kg	☼	02/10/17 07:09	02/14/17 03:05	1
2-Chlorophenol	<200		200	68	ug/Kg	☼	02/10/17 07:09	02/14/17 03:05	1
2-Methylnaphthalene	<81		81	7.4	ug/Kg	☼	02/10/17 07:09	02/14/17 03:05	1
2-Methylphenol	<200		200	64	ug/Kg	☼	02/10/17 07:09	02/14/17 03:05	1
2-Nitroaniline	<200		200	54	ug/Kg	☼	02/10/17 07:09	02/14/17 03:05	1
2-Nitrophenol	<400		400	95	ug/Kg	☼	02/10/17 07:09	02/14/17 03:05	1
3 & 4 Methylphenol	<200		200	67	ug/Kg	☼	02/10/17 07:09	02/14/17 03:05	1
3,3'-Dichlorobenzidine	<200		200	56	ug/Kg	☼	02/10/17 07:09	02/14/17 03:05	1
3-Nitroaniline	<400		400	120	ug/Kg	☼	02/10/17 07:09	02/14/17 03:05	1
4,6-Dinitro-2-methylphenol	<810		810	320	ug/Kg	☼	02/10/17 07:09	02/14/17 03:05	1
4-Bromophenyl phenyl ether	<200		200	53	ug/Kg	☼	02/10/17 07:09	02/14/17 03:05	1
4-Chloro-3-methylphenol	<400		400	140	ug/Kg	☼	02/10/17 07:09	02/14/17 03:05	1
4-Chloroaniline	<810		810	190	ug/Kg	☼	02/10/17 07:09	02/14/17 03:05	1
4-Chlorophenyl phenyl ether	<200		200	47	ug/Kg	☼	02/10/17 07:09	02/14/17 03:05	1
4-Nitroaniline	<400		400	170	ug/Kg	☼	02/10/17 07:09	02/14/17 03:05	1
4-Nitrophenol	<810		810	380	ug/Kg	☼	02/10/17 07:09	02/14/17 03:05	1
Acenaphthene	**12**	**J**	40	7.2	ug/Kg	☼	02/10/17 07:09	02/14/17 03:05	1
Acenaphthylene	<40		40	5.3	ug/Kg	☼	02/10/17 07:09	02/14/17 03:05	1
Anthracene	**14**	**J**	40	6.7	ug/Kg	☼	02/10/17 07:09	02/14/17 03:05	1
Benzo[a]anthracene	**53**		40	5.4	ug/Kg	☼	02/10/17 07:09	02/14/17 03:05	1
Benzo[a]pyrene	**56**	*****	40	7.8	ug/Kg	☼	02/10/17 07:09	02/14/17 03:05	1
Benzo[b]fluoranthene	**120**	*****	40	8.7	ug/Kg	☼	02/10/17 07:09	02/14/17 03:05	1
Benzo[g,h,i]perylene	**31**	**J ***	40	13	ug/Kg	☼	02/10/17 07:09	02/14/17 03:05	1
Benzo[k]fluoranthene	**36**	**J ***	40	12	ug/Kg	☼	02/10/17 07:09	02/14/17 03:05	1
Bis(2-chloroethoxy)methane	<200		200	41	ug/Kg	☼	02/10/17 07:09	02/14/17 03:05	1
Bis(2-chloroethyl)ether	<200		200	60	ug/Kg	☼	02/10/17 07:09	02/14/17 03:05	1
Bis(2-ethylhexyl) phthalate	<200		200	73	ug/Kg	☼	02/10/17 07:09	02/14/17 03:05	1
Butyl benzyl phthalate	<200		200	76	ug/Kg	☼	02/10/17 07:09	02/14/17 03:05	1
Carbazole	<200		200	100	ug/Kg	☼	02/10/17 07:09	02/14/17 03:05	1
Chrysene	**67**		40	11	ug/Kg	☼	02/10/17 07:09	02/14/17 03:05	1
Dibenz(a,h)anthracene	<40	*	40	7.8	ug/Kg	☼	02/10/17 07:09	02/14/17 03:05	1
Dibenzofuran	<200		200	47	ug/Kg	☼	02/10/17 07:09	02/14/17 03:05	1
Diethyl phthalate	<200		200	68	ug/Kg	☼	02/10/17 07:09	02/14/17 03:05	1
Dimethyl phthalate	<200		200	52	ug/Kg	☼	02/10/17 07:09	02/14/17 03:05	1
Di-n-butyl phthalate	<200		200	61	ug/Kg	☼	02/10/17 07:09	02/14/17 03:05	1
Di-n-octyl phthalate	<200		200	65	ug/Kg	☼	02/10/17 07:09	02/14/17 03:05	1
Fluoranthene	**130**		40	7.4	ug/Kg	☼	02/10/17 07:09	02/14/17 03:05	1
Fluorene	**12**	**J**	40	5.6	ug/Kg	☼	02/10/17 07:09	02/14/17 03:05	1
Hexachlorobenzene	<81		81	9.3	ug/Kg	☼	02/10/17 07:09	02/14/17 03:05	1
Hexachlorobutadiene	<200		200	63	ug/Kg	☼	02/10/17 07:09	02/14/17 03:05	1
Hexachlorocyclopentadiene	<810		810	230	ug/Kg	☼	02/10/17 07:09	02/14/17 03:05	1
Hexachloroethane	<200		200	61	ug/Kg	☼	02/10/17 07:09	02/14/17 03:05	1

Client Sample ID: F45-2(0-1)-020717D
Date Collected: 02/07/17 15:28
Date Received: 02/07/17 16:56

Lab Sample ID: 500-123558-4
Matrix: Solid
Percent Solids: 81.2

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	<40	*	40	10	ug/Kg	☼	02/10/17 07:09	02/14/17 03:05	1
Isophorone	<200		200	45	ug/Kg	☼	02/10/17 07:09	02/14/17 03:05	1
Naphthalene	<40		40	6.2	ug/Kg	☼	02/10/17 07:09	02/14/17 03:05	1
Nitrobenzene	<40		40	10	ug/Kg	☼	02/10/17 07:09	02/14/17 03:05	1
N-Nitrosodi-n-propylamine	<81		81	49	ug/Kg	☼	02/10/17 07:09	02/14/17 03:05	1
N-Nitrosodiphenylamine	<200		200	47	ug/Kg	☼	02/10/17 07:09	02/14/17 03:05	1
Pentachlorophenol	<810		810	640	ug/Kg	☼	02/10/17 07:09	02/14/17 03:05	1
Phenanthrene	**75**		40	5.6	ug/Kg	☼	02/10/17 07:09	02/14/17 03:05	1
Phenol	<200		200	89	ug/Kg	☼	02/10/17 07:09	02/14/17 03:05	1
Pyrene	**150**		40	8.0	ug/Kg	☼	02/10/17 07:09	02/14/17 03:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*100*		*25 - 130*	*02/10/17 07:09*	*02/14/17 03:05*	*1*
2-Fluorobiphenyl	*78*		*42 - 115*	*02/10/17 07:09*	*02/14/17 03:05*	*1*
2-Fluorophenol	*80*		*40 - 130*	*02/10/17 07:09*	*02/14/17 03:05*	*1*
Nitrobenzene-d5	*68*		*33 - 124*	*02/10/17 07:09*	*02/14/17 03:05*	*1*
Phenol-d5	*76*		*36 - 123*	*02/10/17 07:09*	*02/14/17 03:05*	*1*
Terphenyl-d14	*129*		*25 - 150*	*02/10/17 07:09*	*02/14/17 03:05*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/13/17 08:21	02/13/17 16:17	1
Barium	**0.31**	**J**	0.50	0.050	mg/L		02/13/17 08:21	02/13/17 16:17	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/13/17 08:21	02/13/17 16:17	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/13/17 08:21	02/13/17 16:17	1
Chromium	<0.025		0.025	0.010	mg/L		02/13/17 08:21	02/13/17 16:17	1
Cobalt	<0.025		0.025	0.010	mg/L		02/13/17 08:21	02/13/17 16:17	1
Copper	<0.025		0.025	0.010	mg/L		02/13/17 08:21	02/13/17 16:17	1
Iron	<0.40		0.40	0.20	mg/L		02/13/17 08:21	02/13/17 16:17	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/13/17 08:21	02/13/17 16:17	1
Manganese	**0.59**		0.025	0.010	mg/L		02/13/17 08:21	02/13/17 16:17	1
Nickel	<0.025		0.025	0.010	mg/L		02/13/17 08:21	02/13/17 16:17	1
Selenium	<0.050		0.050	0.020	mg/L		02/13/17 08:21	02/13/17 16:17	1
Silver	<0.025		0.025	0.010	mg/L		02/13/17 08:21	02/13/17 16:17	1
Zinc	**0.057**	**J**	0.50	0.020	mg/L		02/13/17 08:21	02/13/17 16:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.056**		0.050	0.010	mg/L		02/11/17 10:11	02/13/17 13:39	1
Barium	**0.53**		0.50	0.050	mg/L		02/11/17 10:11	02/13/17 13:39	1
Beryllium	**0.0071**		0.0040	0.0040	mg/L		02/11/17 10:11	02/13/17 13:39	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/11/17 10:11	02/13/17 13:39	1
Chromium	**0.18**		0.025	0.010	mg/L		02/11/17 10:11	02/13/17 13:39	1
Cobalt	**0.046**		0.025	0.010	mg/L		02/11/17 10:11	02/13/17 13:39	1
Copper	**0.26**		0.025	0.010	mg/L		02/11/17 10:11	02/13/17 13:39	1
Iron	**170**		0.40	0.20	mg/L		02/11/17 10:11	02/13/17 13:39	1
Lead	**0.32**		0.0075	0.0075	mg/L		02/11/17 10:11	02/13/17 13:39	1
Manganese	**1.1**		0.025	0.010	mg/L		02/11/17 10:11	02/13/17 13:39	1
Nickel	**0.18**		0.025	0.010	mg/L		02/11/17 10:11	02/13/17 13:39	1
Selenium	<0.050		0.050	0.020	mg/L		02/11/17 10:11	02/13/17 13:39	1

Client Sample ID: F45-2(0-1)-020717D
Date Collected: 02/07/17 15:28
Date Received: 02/07/17 16:56

Lab Sample ID: 500-123558-4
Matrix: Solid
Percent Solids: 81.2

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 10:11	02/13/17 13:39	1
Zinc	**0.59**		0.50	0.020	mg/L		02/11/17 10:11	02/13/17 13:39	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.26**	**J**	0.89	0.19	mg/Kg	☼	02/10/17 08:30	02/11/17 03:56	1
Arsenic	**5.9**		0.45	0.21	mg/Kg	☼	02/10/17 08:30	02/11/17 03:56	1
Barium	**51**		0.45	0.082	mg/Kg	☼	02/10/17 08:30	02/11/17 03:56	1
Beryllium	**0.57**		0.18	0.039	mg/Kg	☼	02/10/17 08:30	02/11/17 03:56	1
Cadmium	**0.32**		0.089	0.026	mg/Kg	☼	02/10/17 08:30	02/11/17 03:56	1
Calcium	**19000**	**B**	8.9	2.9	mg/Kg	☼	02/10/17 08:30	02/11/17 03:56	1
Chromium	**17**	**B**	0.45	0.077	mg/Kg	☼	02/10/17 08:30	02/11/17 03:56	1
Cobalt	**10**		0.22	0.050	mg/Kg	☼	02/10/17 08:30	02/11/17 03:56	1
Copper	**20**		0.45	0.097	mg/Kg	☼	02/10/17 08:30	02/11/17 03:56	1
Iron	**15000**	**B**	8.9	3.4	mg/Kg	☼	02/10/17 08:30	02/11/17 03:56	1
Lead	**84**	**B**	0.22	0.11	mg/Kg	☼	02/10/17 08:30	02/11/17 03:56	1
Magnesium	**13000**	**B**	4.5	1.8	mg/Kg	☼	02/10/17 08:30	02/11/17 03:56	1
Manganese	**320**	**B**	0.45	0.088	mg/Kg	☼	02/10/17 08:30	02/11/17 03:56	1
Nickel	**23**		0.45	0.12	mg/Kg	☼	02/10/17 08:30	02/11/17 03:56	1
Potassium	**1500**	**B**	22	3.6	mg/Kg	☼	02/10/17 08:30	02/11/17 03:56	1
Selenium	**0.43**	**J**	0.45	0.22	mg/Kg	☼	02/10/17 08:30	02/11/17 03:56	1
Silver	<0.22		0.22	0.052	mg/Kg	☼	02/10/17 08:30	02/11/17 03:56	1
Sodium	**850**		45	5.9	mg/Kg	☼	02/10/17 08:30	02/11/17 03:56	1
Thallium	<0.45		0.45	0.22	mg/Kg	☼	02/10/17 08:30	02/11/17 03:56	1
Vanadium	**18**		0.22	0.065	mg/Kg	☼	02/10/17 08:30	02/11/17 03:56	1
Zinc	**79**		0.89	0.28	mg/Kg	☼	02/10/17 08:30	02/11/17 03:56	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		02/13/17 11:45	02/14/17 11:24	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		02/13/17 13:04	02/14/17 09:10	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**31**		19	10	ug/Kg	☼	02/09/17 16:15	02/10/17 10:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.9**		0.2	0.2	SU			02/11/17 11:23	1

Definitions/Glossary

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

TestAmerica Job ID: 500-123558-1

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/	A44-13(0-1)-020717	2/7/17	1453	6	S	X	X	X	X	X	
2	2/	FU5-1(0-1)-020717	2/7/17	1515	6	S	X	X	X	X	X	
3	2/	FU5-2(0-1)-020717	2/7/17	1528	6	S	X	X	X	X	X	
4	2/	FU5-2(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. Balasubramanian
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
	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
	Weston	2/7/17	1656		TALE	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]	TAMU	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 (600 (1209)

2/15/2017

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, incldiuding number and street):
355 Delite Inn Road, (ISGS Site No. 3140-46)

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: 41.304309131 (Decimal Degrees) Longitude: -87.621151932 (-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: 41.304309131 Longitude: -87.621151932

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 R46-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 3140-46. SEE FIGURE 3-1 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: 500-123629-1.
ALSO SEE FIGURE 4-1 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. 3140-46
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	R46-1(0-1)-020817	**Soil Reference Concentrations[A]**
Sample Date	2/8/2017	
Location ID	R46-1	
Depth	0 - 1	
ISGS Site No.	3140-46	
Parameter		
Laboratory pH (s.u.)	8.1	<6.25, >9.0
VOCs	None Detected	
SVOCs (ug/kg)		
2-Methylnaphthalene	9.3 J	---
Benzo(b)fluoranthene	11 J	900 / 1500 /2100
Fluoranthene	12 J	3100000
Phenanthrene	14 J	
Pyrene	13 J	2300000
Total Metals (mg/kg)		
Antimony, Total	ND	5
Arsenic, Total	5.9	11.3 / 13.0
Barium, Total	64	1500
Beryllium, Total	0.47	22
Cadmium, Total	ND	5.2
Calcium, Total	4400 B	---
Chromium, Total	11	21
Cobalt, Total	9.2	20
Copper, Total	14	2900
Iron, Total	13000 B	15000 / 15900
Lead, Total	23	107
Magnesium, Total	3300 B	325000
Manganese, Total	470	630 / 636
Mercury, Total	0.025	0.89
Nickel, Total	15	100
Potassium, Total	1100	---
Selenium, Total	0.63	1.3
Silver, Total	ND	4.4
Sodium, Total	890	---
Thallium, Total	ND	2.6
Vanadium, Total	16	550
Zinc, Total	53	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	0.014 J	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	0.022 J	5
SPLP Metals (mg/l)		
Arsenic, SPLP	0.026 J	0.05
Barium, SPLP	0.36 J	2
Beryllium, SPLP	ND	0.004
Cadmium, SPLP	ND	0.005
Chromium, SPLP	0.083	0.1
Cobalt, SPLP	0.027	1
Copper, SPLP	0.087	0.65
Iron, SPLP	79	5
Lead, SPLP	0.065	0.0075
Manganese, SPLP	0.91	0.15
Mercury, SPLP	ND	0.002
Nickel, SPLP	0.083	0.1
Zinc, SPLP	0.32 J	5

Summary Table of ISGS Site No. 3140-46
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

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: 500-123629-1
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:
2/17/2017 4:03:45 PM

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

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

TestAmerica Job ID: 500-123629-1

Client Sample ID: R46-1(0-1)-020817
Date Collected: 02/08/17 09:30
Date Received: 02/08/17 17:00

Lab Sample ID: 500-123629-10
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	7.9	ug/Kg	☼	02/09/17 08:50	02/14/17 11:54	1
Benzene	<1.8		1.8	0.46	ug/Kg	☼	02/09/17 08:50	02/14/17 11:54	1
Bromodichloromethane	<1.8		1.8	0.37	ug/Kg	☼	02/09/17 08:50	02/14/17 11:54	1
Bromoform	<1.8		1.8	0.53	ug/Kg	☼	02/09/17 08:50	02/14/17 11:54	1
Bromomethane	<4.5		4.5	1.7	ug/Kg	☼	02/09/17 08:50	02/14/17 11:54	1
Carbon disulfide	<4.5		4.5	0.94	ug/Kg	☼	02/09/17 08:50	02/14/17 11:54	1
Carbon tetrachloride	<1.8		1.8	0.52	ug/Kg	☼	02/09/17 08:50	02/14/17 11:54	1
Chlorobenzene	<1.8		1.8	0.67	ug/Kg	☼	02/09/17 08:50	02/14/17 11:54	1
Chloroethane	<4.5		4.5	1.3	ug/Kg	☼	02/09/17 08:50	02/14/17 11:54	1
Chloroform	<1.8		1.8	0.63	ug/Kg	☼	02/09/17 08:50	02/14/17 11:54	1
Chloromethane	<4.5		4.5	1.8	ug/Kg	☼	02/09/17 08:50	02/14/17 11:54	1
cis-1,2-Dichloroethene	<1.8		1.8	0.51	ug/Kg	☼	02/09/17 08:50	02/14/17 11:54	1
cis-1,3-Dichloropropene	<1.8		1.8	0.55	ug/Kg	☼	02/09/17 08:50	02/14/17 11:54	1
Dibromochloromethane	<1.8	*	1.8	0.59	ug/Kg	☼	02/09/17 08:50	02/14/17 11:54	1
1,1-Dichloroethane	<1.8		1.8	0.62	ug/Kg	☼	02/09/17 08:50	02/14/17 11:54	1
1,2-Dichloroethane	<4.5		4.5	1.4	ug/Kg	☼	02/09/17 08:50	02/14/17 11:54	1
1,1-Dichloroethene	<1.8		1.8	0.62	ug/Kg	☼	02/09/17 08:50	02/14/17 11:54	1
1,2-Dichloropropane	<1.8		1.8	0.47	ug/Kg	☼	02/09/17 08:50	02/14/17 11:54	1
1,3-Dichloropropene, Total	<1.8		1.8	0.63	ug/Kg	☼	02/09/17 08:50	02/14/17 11:54	1
Ethylbenzene	<1.8		1.8	0.87	ug/Kg	☼	02/09/17 08:50	02/14/17 11:54	1
2-Hexanone	<4.5		4.5	1.4	ug/Kg	☼	02/09/17 08:50	02/14/17 11:54	1
Methylene Chloride	<4.5		4.5	1.8	ug/Kg	☼	02/09/17 08:50	02/14/17 11:54	1
Methyl Ethyl Ketone	<4.5		4.5	2.0	ug/Kg	☼	02/09/17 08:50	02/14/17 11:54	1
methyl isobutyl ketone	<4.5		4.5	1.3	ug/Kg	☼	02/09/17 08:50	02/14/17 11:54	1
Methyl tert-butyl ether	<1.8		1.8	0.53	ug/Kg	☼	02/09/17 08:50	02/14/17 11:54	1
Styrene	<1.8		1.8	0.55	ug/Kg	☼	02/09/17 08:50	02/14/17 11:54	1
1,1,2,2-Tetrachloroethane	<1.8		1.8	0.58	ug/Kg	☼	02/09/17 08:50	02/14/17 11:54	1
Tetrachloroethene	<1.8		1.8	0.62	ug/Kg	☼	02/09/17 08:50	02/14/17 11:54	1
Toluene	<1.8		1.8	0.46	ug/Kg	☼	02/09/17 08:50	02/14/17 11:54	1
trans-1,2-Dichloroethene	<1.8		1.8	0.80	ug/Kg	☼	02/09/17 08:50	02/14/17 11:54	1
trans-1,3-Dichloropropene	<1.8	*	1.8	0.63	ug/Kg	☼	02/09/17 08:50	02/14/17 11:54	1
1,1,1-Trichloroethane	<1.8		1.8	0.61	ug/Kg	☼	02/09/17 08:50	02/14/17 11:54	1
1,1,2-Trichloroethane	<1.8		1.8	0.78	ug/Kg	☼	02/09/17 08:50	02/14/17 11:54	1
Trichloroethene	<1.8		1.8	0.61	ug/Kg	☼	02/09/17 08:50	02/14/17 11:54	1
Vinyl chloride	<1.8		1.8	0.80	ug/Kg	☼	02/09/17 08:50	02/14/17 11:54	1
Xylenes, Total	<3.6		3.6	0.58	ug/Kg	☼	02/09/17 08:50	02/14/17 11:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 120*	*02/09/17 08:50*	*02/14/17 11:54*	*1*
Dibromofluoromethane	*106*		*75 - 120*	*02/09/17 08:50*	*02/14/17 11:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*69 - 134*	*02/09/17 08:50*	*02/14/17 11:54*	*1*
Toluene-d8 (Surr)	*101*		*75 - 123*	*02/09/17 08:50*	*02/14/17 11:54*	*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	☼	02/13/17 07:37	02/14/17 11:53	1
1,2-Dichlorobenzene	<200		200	48	ug/Kg	☼	02/13/17 07:37	02/14/17 11:53	1
1,3-Dichlorobenzene	<200		200	45	ug/Kg	☼	02/13/17 07:37	02/14/17 11:53	1
1,4-Dichlorobenzene	<200		200	51	ug/Kg	☼	02/13/17 07:37	02/14/17 11:53	1
2,2'-oxybis[1-chloropropane]	<200		200	46	ug/Kg	☼	02/13/17 07:37	02/14/17 11:53	1

Client Sample ID: R46-1(0-1)-020817
Date Collected: 02/08/17 09:30
Date Received: 02/08/17 17:00

Lab Sample ID: 500-123629-10
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	☼	02/13/17 07:37	02/14/17 11:53	1
2,4,6-Trichlorophenol	<400		400	140	ug/Kg	☼	02/13/17 07:37	02/14/17 11:53	1
2,4-Dichlorophenol	<400		400	95	ug/Kg	☼	02/13/17 07:37	02/14/17 11:53	1
2,4-Dimethylphenol	<400		400	150	ug/Kg	☼	02/13/17 07:37	02/14/17 11:53	1
2,4-Dinitrophenol	<800		800	700	ug/Kg	☼	02/13/17 07:37	02/14/17 11:53	1
2,4-Dinitrotoluene	<200		200	63	ug/Kg	☼	02/13/17 07:37	02/14/17 11:53	1
2,6-Dinitrotoluene	<200		200	78	ug/Kg	☼	02/13/17 07:37	02/14/17 11:53	1
2-Chloronaphthalene	<200		200	44	ug/Kg	☼	02/13/17 07:37	02/14/17 11:53	1
2-Chlorophenol	<200		200	68	ug/Kg	☼	02/13/17 07:37	02/14/17 11:53	1
2-Methylnaphthalene	**9.3**	**J**	80	7.3	ug/Kg	☼	02/13/17 07:37	02/14/17 11:53	1
2-Methylphenol	<200		200	64	ug/Kg	☼	02/13/17 07:37	02/14/17 11:53	1
2-Nitroaniline	<200		200	54	ug/Kg	☼	02/13/17 07:37	02/14/17 11:53	1
2-Nitrophenol	<400		400	94	ug/Kg	☼	02/13/17 07:37	02/14/17 11:53	1
3 & 4 Methylphenol	<200		200	66	ug/Kg	☼	02/13/17 07:37	02/14/17 11:53	1
3,3'-Dichlorobenzidine	<200		200	56	ug/Kg	☼	02/13/17 07:37	02/14/17 11:53	1
3-Nitroaniline	<400		400	120	ug/Kg	☼	02/13/17 07:37	02/14/17 11:53	1
4,6-Dinitro-2-methylphenol	<800		800	320	ug/Kg	☼	02/13/17 07:37	02/14/17 11:53	1
4-Bromophenyl phenyl ether	<200		200	52	ug/Kg	☼	02/13/17 07:37	02/14/17 11:53	1
4-Chloro-3-methylphenol	<400		400	140	ug/Kg	☼	02/13/17 07:37	02/14/17 11:53	1
4-Chloroaniline	<800		800	190	ug/Kg	☼	02/13/17 07:37	02/14/17 11:53	1
4-Chlorophenyl phenyl ether	<200		200	47	ug/Kg	☼	02/13/17 07:37	02/14/17 11:53	1
4-Nitroaniline	<400		400	170	ug/Kg	☼	02/13/17 07:37	02/14/17 11:53	1
4-Nitrophenol	<800		800	380	ug/Kg	☼	02/13/17 07:37	02/14/17 11:53	1
Acenaphthene	<40		40	7.2	ug/Kg	☼	02/13/17 07:37	02/14/17 11:53	1
Acenaphthylene	<40		40	5.2	ug/Kg	☼	02/13/17 07:37	02/14/17 11:53	1
Anthracene	<40		40	6.7	ug/Kg	☼	02/13/17 07:37	02/14/17 11:53	1
Benzo[a]anthracene	<40		40	5.4	ug/Kg	☼	02/13/17 07:37	02/14/17 11:53	1
Benzo[a]pyrene	<40		40	7.7	ug/Kg	☼	02/13/17 07:37	02/14/17 11:53	1
Benzo[b]fluoranthene	**11**	**J**	40	8.6	ug/Kg	☼	02/13/17 07:37	02/14/17 11:53	1
Benzo[g,h,i]perylene	<40		40	13	ug/Kg	☼	02/13/17 07:37	02/14/17 11:53	1
Benzo[k]fluoranthene	<40		40	12	ug/Kg	☼	02/13/17 07:37	02/14/17 11:53	1
Bis(2-chloroethoxy)methane	<200		200	41	ug/Kg	☼	02/13/17 07:37	02/14/17 11:53	1
Bis(2-chloroethyl)ether	<200		200	60	ug/Kg	☼	02/13/17 07:37	02/14/17 11:53	1
Bis(2-ethylhexyl) phthalate	<200		200	73	ug/Kg	☼	02/13/17 07:37	02/14/17 11:53	1
Butyl benzyl phthalate	<200		200	76	ug/Kg	☼	02/13/17 07:37	02/14/17 11:53	1
Carbazole	<200		200	99	ug/Kg	☼	02/13/17 07:37	02/14/17 11:53	1
Chrysene	<40		40	11	ug/Kg	☼	02/13/17 07:37	02/14/17 11:53	1
Dibenz(a,h)anthracene	<40		40	7.7	ug/Kg	☼	02/13/17 07:37	02/14/17 11:53	1
Dibenzofuran	<200		200	47	ug/Kg	☼	02/13/17 07:37	02/14/17 11:53	1
Diethyl phthalate	<200		200	67	ug/Kg	☼	02/13/17 07:37	02/14/17 11:53	1
Dimethyl phthalate	<200		200	52	ug/Kg	☼	02/13/17 07:37	02/14/17 11:53	1
Di-n-butyl phthalate	<200		200	61	ug/Kg	☼	02/13/17 07:37	02/14/17 11:53	1
Di-n-octyl phthalate	<200		200	65	ug/Kg	☼	02/13/17 07:37	02/14/17 11:53	1
Fluoranthene	**12**	**J**	40	7.4	ug/Kg	☼	02/13/17 07:37	02/14/17 11:53	1
Fluorene	<40		40	5.6	ug/Kg	☼	02/13/17 07:37	02/14/17 11:53	1
Hexachlorobenzene	<80		80	9.2	ug/Kg	☼	02/13/17 07:37	02/14/17 11:53	1
Hexachlorobutadiene	<200		200	63	ug/Kg	☼	02/13/17 07:37	02/14/17 11:53	1
Hexachlorocyclopentadiene	<800		800	230	ug/Kg	☼	02/13/17 07:37	02/14/17 11:53	1
Hexachloroethane	<200		200	61	ug/Kg	☼	02/13/17 07:37	02/14/17 11:53	1

Client Sample ID: R46-1(0-1)-020817
Date Collected: 02/08/17 09:30
Date Received: 02/08/17 17:00

Lab Sample ID: 500-123629-10
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	☼	02/13/17 07:37	02/14/17 11:53	1
Isophorone	<200		200	45	ug/Kg	☼	02/13/17 07:37	02/14/17 11:53	1
Naphthalene	<40		40	6.1	ug/Kg	☼	02/13/17 07:37	02/14/17 11:53	1
Nitrobenzene	<40		40	9.9	ug/Kg	☼	02/13/17 07:37	02/14/17 11:53	1
N-Nitrosodi-n-propylamine	<80		80	49	ug/Kg	☼	02/13/17 07:37	02/14/17 11:53	1
N-Nitrosodiphenylamine	<200		200	47	ug/Kg	☼	02/13/17 07:37	02/14/17 11:53	1
Pentachlorophenol	<800		800	640	ug/Kg	☼	02/13/17 07:37	02/14/17 11:53	1
Phenanthrene	**14**	**J**	40	5.5	ug/Kg	☼	02/13/17 07:37	02/14/17 11:53	1
Phenol	<200		200	88	ug/Kg	☼	02/13/17 07:37	02/14/17 11:53	1
Pyrene	**13**	**J**	40	7.9	ug/Kg	☼	02/13/17 07:37	02/14/17 11:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*65*		*25 - 130*	*02/13/17 07:37*	*02/14/17 11:53*	*1*
2-Fluorobiphenyl	*100*		*42 - 115*	*02/13/17 07:37*	*02/14/17 11:53*	*1*
2-Fluorophenol	*94*		*40 - 130*	*02/13/17 07:37*	*02/14/17 11:53*	*1*
Nitrobenzene-d5	*94*		*33 - 124*	*02/13/17 07:37*	*02/14/17 11:53*	*1*
Phenol-d5	*92*		*36 - 123*	*02/13/17 07:37*	*02/14/17 11:53*	*1*
Terphenyl-d14	*103*		*25 - 150*	*02/13/17 07:37*	*02/14/17 11:53*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		02/14/17 08:00	02/14/17 16:41	1
Barium	**0.27**	**J**	0.50	0.050	mg/L		02/14/17 08:00	02/14/17 16:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/14/17 08:00	02/14/17 16:41	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/14/17 08:00	02/14/17 16:41	1
Chromium	<0.025		0.025	0.010	mg/L		02/14/17 08:00	02/14/17 16:41	1
Cobalt	<0.025		0.025	0.010	mg/L		02/14/17 08:00	02/14/17 16:41	1
Copper	**0.014**	**J**	0.025	0.010	mg/L		02/14/17 08:00	02/14/17 16:41	1
Iron	<0.40		0.40	0.20	mg/L		02/14/17 08:00	02/14/17 16:41	1
Lead	<0.0075		0.0075	0.0075	mg/L		02/14/17 08:00	02/14/17 16:41	1
Manganese	**0.034**		0.025	0.010	mg/L		02/14/17 08:00	02/14/17 16:41	1
Nickel	<0.025		0.025	0.010	mg/L		02/14/17 08:00	02/14/17 16:41	1
Selenium	<0.050		0.050	0.020	mg/L		02/14/17 08:00	02/14/17 16:41	1
Silver	<0.025		0.025	0.010	mg/L		02/14/17 08:00	02/14/17 16:41	1
Zinc	**0.022**	**J**	0.50	0.020	mg/L		02/14/17 08:00	02/14/17 16:41	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		02/14/17 08:00	02/14/17 18:01	1
Barium	**0.36**	**J**	0.50	0.050	mg/L		02/14/17 08:00	02/14/17 18:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		02/14/17 08:00	02/14/17 18:01	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		02/14/17 08:00	02/14/17 18:01	1
Chromium	**0.083**		0.025	0.010	mg/L		02/14/17 08:00	02/14/17 18:01	1
Cobalt	**0.027**		0.025	0.010	mg/L		02/14/17 08:00	02/14/17 18:01	1
Copper	**0.087**		0.025	0.010	mg/L		02/14/17 08:00	02/14/17 18:01	1
Iron	**79**		0.40	0.20	mg/L		02/14/17 08:00	02/14/17 18:01	1
Lead	**0.065**		0.038	0.038	mg/L		02/14/17 08:00	02/15/17 13:10	5
Manganese	**0.91**		0.025	0.010	mg/L		02/14/17 08:00	02/14/17 18:01	1
Nickel	**0.083**		0.025	0.010	mg/L		02/14/17 08:00	02/14/17 18:01	1
Selenium	<0.050		0.050	0.020	mg/L		02/14/17 08:00	02/14/17 18:01	1

Client Sample ID: R46-1(0-1)-020817
Date Collected: 02/08/17 09:30
Date Received: 02/08/17 17:00

Lab Sample ID: 500-123629-10
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		02/14/17 08:00	02/14/17 18:01	1
Zinc	**0.32**	**J**	0.50	0.020	mg/L		02/14/17 08:00	02/14/17 18:01	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	☼	02/11/17 10:45	02/13/17 21:46	1
Arsenic	**5.9**		0.57	0.26	mg/Kg	☼	02/11/17 10:45	02/13/17 21:46	1
Barium	**64**		0.57	0.10	mg/Kg	☼	02/11/17 10:45	02/13/17 21:46	1
Beryllium	**0.47**		0.23	0.049	mg/Kg	☼	02/11/17 10:45	02/13/17 21:46	1
Cadmium	<0.11		0.11	0.033	mg/Kg	☼	02/11/17 10:45	02/13/17 21:46	1
Calcium	**4400**	**B**	11	3.7	mg/Kg	☼	02/11/17 10:45	02/13/17 21:46	1
Chromium	**11**		0.57	0.098	mg/Kg	☼	02/11/17 10:45	02/13/17 21:46	1
Cobalt	**9.2**		0.28	0.064	mg/Kg	☼	02/11/17 10:45	02/13/17 21:46	1
Copper	**14**		0.57	0.12	mg/Kg	☼	02/11/17 10:45	02/13/17 21:46	1
Iron	**13000**	**B**	11	4.4	mg/Kg	☼	02/11/17 10:45	02/13/17 21:46	1
Lead	**23**		0.28	0.14	mg/Kg	☼	02/11/17 10:45	02/13/17 21:46	1
Magnesium	**3300**	**B**	5.7	2.3	mg/Kg	☼	02/11/17 10:45	02/13/17 21:46	1
Manganese	**470**		0.57	0.11	mg/Kg	☼	02/11/17 10:45	02/13/17 21:46	1
Nickel	**15**		0.57	0.15	mg/Kg	☼	02/11/17 10:45	02/13/17 21:46	1
Potassium	**1100**		28	4.6	mg/Kg	☼	02/11/17 10:45	02/13/17 21:46	1
Selenium	**0.63**		0.57	0.28	mg/Kg	☼	02/11/17 10:45	02/13/17 21:46	1
Silver	<0.28		0.28	0.067	mg/Kg	☼	02/11/17 10:45	02/13/17 21:46	1
Sodium	**890**		57	7.5	mg/Kg	☼	02/11/17 10:45	02/13/17 21:46	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	02/11/17 10:45	02/13/17 21:46	1
Vanadium	**16**		0.28	0.083	mg/Kg	☼	02/11/17 10:45	02/13/17 21:46	1
Zinc	**53**		1.1	0.36	mg/Kg	☼	02/11/17 10:45	02/13/17 21:46	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 13:11	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 11:45	02/14/17 10:52	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**25**		19	10	ug/Kg	☼	02/10/17 16:45	02/13/17 10:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.1**		0.2	0.2	SU			02/13/17 13:15	1

Qualifiers

GC/MS VOA

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

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: 500-123629-1

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 ENVIRONMENTA

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

500-123629 COC

Chain of Custody Record

Lab Job #: 500-123629

Chain of Custody Number:

Page 3 of 6

Temperature °C of Cooler: 4.3, 4.1, 2.9, 4.0, 3.6

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: 224-864-7250	Phone: M
Fax:	Fax: K
E-Mail:	PO#/Reference#

Client	Client Project #	Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	VOC	SVOC	Total Metals	TCLP/SPLP Metals	pH
Weston Solutions		1		F40-2(0-1)-020817	2/7/17	1420	6	S	X	X	X	X	X
Project Name: IDOT 053		2		A38-21(0-1)-020817		1438	6	S	↓	↓	↓	↓	↓
Project Location/State: Beecher / IL	Lab Project #	3		A38-22(0-1)-020817		1450	6	S					
Sampler: AT	Lab PM: D. Wright	4		A38-22(0-1)-020817D		1452	6	S					
		5		A38-23(0-1)-020817	2/7/17	1520	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

Comments

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	2/8/17	1700	[signature]	TA	2/8/17	1700
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier
Shipped 2/9/17
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:

2/17/2017

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 #: 500-123629

Chain of Custody Number:

Page 4 of 6

Temperature °C of Cooler:

Report To (optional)	Bill To (optional)
Contact: S. Babusubramanian	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: JB	Lab PM: Dick Weigner	

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	VOCs	SVOCs	Total Metals	TCLP/SPLP Metals	pH	Comments
6		A44-1(0-1)-020817	2/8/17	08:40	6	SO						
7		A44-2(0-1)-020817		09:00								
8		A44-2(0-1)-020817D		09:00								
9		A44-3(0-1)-020817		09:15								
10		R46-1(0-1)-020817		09:30								
11		A44-4(0-1)-020817		09:45								
12		A44-5(0-1)-020817		09:55								
13		A44-6(0-1)-020817		10:10								
14		A44-7(0-1)-020817		10:20								
15		A44-8(0-1)-020817		10:35								

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	2/8/17	1700	[signature]	TA	2/8/17	1700
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
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MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:

2/17/2017