



Illinois Environmental Protection Agency

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

Uncontaminated Soil Certification

by Licensed Professional Engineer or Licensed Professional Geologist

for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

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

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

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

I. Source Location Information

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

Project Name: FAI (I-290)-Des Plaines River Pump Station #4 Office Phone Number, if available: _____

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

863 Des Plaines Avenue (ISGS Site No. 2215V-1 - LOCATIONS OUTSIDE OF EARTH RETENTION SYSTEM)

City: Forest Park State: IL Zip Code: _____

County: Cook Township: _____

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

Latitude: 41.87172 Longitude: - 87.82702

(Decimal Degrees)

(-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

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

Estimated Volume of debris (cu. Yd.): 11,217

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: _____

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@illinois.gov

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: _____

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@illinois.gov

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

Uncontaminated Soil Certification**III. Basis for Certification and Attachments**

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

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

LOCATIONS FH-1 THROUGH FH-7, FH-18, FH-19, FH-22, FH-23, FH-25, AND FH-27 WERE SAMPLED ADJACENT TO ISGS SITE No. 2215V-1. 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: 500-134251-1, JOB ID: 500-134252-1, AND JOB ID: 500-134479-1. 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

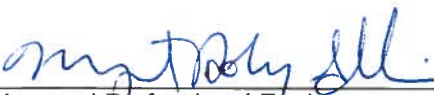
I, Margaret Doheny-Skubic, P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance 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) 864-7234

Margaret Doheny-Skubic, P.G.

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

Apr 22, 2019

Date:



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

Summary Table of ISGS Site No. 2215V-1
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results - OUTSIDE EARTH RETENTION SYSTEM
Illinois Department of Transportation
FAI (I-290): Eisenhower Expressway - Des Plaines River Pump Station #4
Forest Park, Cook County, Illinois

Field Sample ID	FH-1(0-6)-091917	FH-2(0-6)-091917	FH-2(6-12)-091917	FH-2(12-18)-091917	FH-3(0-6)-091917	Soil Reference Concentrations ^A
Sample Date	9/19/2017	9/19/2017	9/19/2017	9/19/2017	9/19/2017	
Location ID	FH-1	FH-2	FH-2	FH-2	FH-3	
Depth	0 - 6	0 - 6	6 - 12	12 - 18	0 - 6	
ISGS Site No.	2215V-1	2215V-1	2215V-1	2215V-1	2215V-1	
Parameter						
Laboratory pH (s.u.)	8.1	8	8.1	8.2	8.1	<6.25,>9.0
VOCs (ug/kg)						
Acetone	ND	ND	30	38	36	25000
Methyl ethyl ketone	ND	ND	ND	ND	ND	---
SVOCs (ug/kg)						
2-Methylnaphthalene	ND	ND	ND	ND	ND	---
Acenaphthene	17 J	35 J	ND	13 J	ND	570000
Acenaphthylene	9.7 J	52	ND	6.5 J	ND	---
Anthracene	88	150	11 J	75	17 J	1.20E+07
Benzo(a)anthracene	230	610	47	150	73	900 / 1100 / 1800
Benzo(a)pyrene	210	630	59	140	82	90 / 1300 / 2100
Benzo(b)fluoranthene	300	970	89	190	120	900 / 1500 / 2100
Benzo(g,h,i)perylene	85	270	28 J	54	32 J	---
Benzo(k)fluoranthene	130	370	37 J	92	51	9000
Chrysene	250	690	59	150	85	88000
Dibenzo(a,h)anthracene	30 J	82	11 J	22 J	14 J	90 / 200 420
Dibenzofuran	ND	ND	ND	ND	ND	---
Fluoranthene	560	1400	110	330	180	3100000
Fluorene	32 J	42	ND	32 J	7.8 J	560000
Indeno(1,2,3-cd)pyrene	89	280	30 J	59	36 J	900 / 900 / 1600
Naphthalene, SVOC	5.9 J	11 J	ND	ND	ND	1800
Phenanthrene	360	630	51	260	100	---
Pyrene	450	1100	92	270	140	2300000
Total Metals (mg/kg)						
Antimony, Total	ND	ND	ND	ND	ND	5
Arsenic, Total	10	12	9.8	12	9.8	11.3 / 13
Barium, Total	46	51	50	110	52	1500
Beryllium, Total	0.57	0.58	0.64	0.69	0.62	22
Cadmium, Total	0.18	0.2	0.2	0.31	0.16	5.2
Calcium, Total	26000 J-	18000 B	27000 B	13000 B	15000 B	---
Chromium, Total	14	15	17	19	17	21
Cobalt, Total	12	12	12	26	13	20
Copper, Total	28 B	27 B	30 B	29 B	28 B	2900
Iron, Total	19000 J+	18000 B	20000 B	24000 B	20000 B	15000 / 15900
Lead, Total	19	26	22	22	23	107
Magnesium, Total	17000 J	12000 B	18000 B	10000 B	12000 B	325000
Manganese, Total	400 J	380 B	310 B	990 B	370 B	630 / 636
Mercury, Total	0.051 B	0.16 B	0.046 B	0.044 B	0.042 B	0.89
Nickel, Total	29	30	31	45	31	100
Potassium, Total	1700 J+	1800	2200	2200	1900	---
Selenium, Total	ND	ND	0.38 J	ND	ND	1.3
Sodium, Total	87	80	93	100	89	---
Thallium, Total	ND	ND	ND	ND	ND	2.6
Vanadium, Total	19	20	21	25	21	550
Zinc, Total	57 B	62 B	57 B	72 B	57 B	5100

Summary Table of ISGS Site No. 2215V-1
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results - OUTSIDE EARTH RETENTION SYSTEM
Illinois Department of Transportation
FAI (I-290): Eisenhower Expressway - Des Plaines River Pump Station #4
Forest Park, Cook County, Illinois

Field Sample ID	FH-1(0-6)-091917	FH-2(0-6)-091917	FH-2(6-12)-091917	FH-2(12-18)-091917	FH-3(0-6)-091917	Soil Reference Concentrations ^A
Sample Date	9/19/2017	9/19/2017	9/19/2017	9/19/2017	9/19/2017	
Location ID	FH-1	FH-2	FH-2	FH-2	FH-3	
Depth	0 - 6	0 - 6	6 - 12	12 - 18	0 - 6	
ISGS Site No.	2215V-1	2215V-1	2215V-1	2215V-1	2215V-1	
Parameter						
TCLP Metals (mg/l)						
Arsenic, TCLP	ND	ND	ND	ND	ND	0.05
Barium, TCLP	0.26 J	0.3 J	0.27 J	0.28 J	0.27 J	2
Cadmium, TCLP	0.0025 J	0.0023 J	ND	0.0028 J	0.0027 J	0.005
Cobalt, TCLP	ND	ND	ND	ND	0.011 J	1
Copper, TCLP	ND	ND	ND	ND	ND	0.65
Iron, TCLP	ND	ND	0.2 J	ND	ND	5
Lead, TCLP	ND	ND	ND	ND	ND	0.0075
Manganese, TCLP	1.5	0.069	0.033	0.59	4	0.15
Nickel, TCLP	0.012 J	ND	ND	0.013 J	0.025	0.1
Zinc, TCLP	ND	ND	ND	ND	ND	5
SPLP Metals (mg/l)						
Arsenic, SPLP	0.013 J	0.019 J	ND	ND	ND	0.05
Barium, SPLP	0.1 J	0.12 J	0.14 J	0.15 J	0.13 J	2
Chromium, SPLP	0.032	0.038	0.012 J	0.014 J	0.011 J	0.1
Cobalt, SPLP	ND	ND	ND	ND	ND	1
Copper, SPLP	0.04	0.05	0.025	0.073	0.02 J	0.65
Iron, SPLP	32	39	6.6	7.9	6.9	5
Lead, SPLP	0.019	0.025	ND	ND	ND	0.0075
Manganese, SPLP	0.14	0.14	0.038	0.039	0.13	0.15
Nickel, SPLP	0.032	0.034	ND	0.011 J	ND	0.1
Zinc, SPLP	0.072 J	0.089 J	0.075 J	0.17 J	0.078 J	5

Summary Table of ISGS Site No. 2215V-1
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results - OUTSIDE EARTH RETENTION SYSTEM
Illinois Department of Transportation
FAI (I-290): Eisenhower Expressway - Des Plaines River Pump Station #4
Forest Park, Cook County, Illinois

Field Sample ID	FH-4(0-6)-091917	FH-4(6-12)-091917	FH-4(12-18)-091917	FH-5(0-6)-091917	FH-5(0-6)-091917D	Soil Reference Concentrations ^A
Sample Date	9/19/2017	9/19/2017	9/19/2017	9/19/2017	9/19/2017	
Location ID	FH-4	FH-4	FH-4	FH-5	FH-5	
Depth	0 - 6	6 - 12	12 - 18	0 - 6	0 - 6	
ISGS Site No.	2215V-1	2215V-1	2215V-1	2215V-1	2215V-1	
Parameter						
Laboratory pH (s.u.)	8.1	8.1	8.2	8	8	<6.25,>9.0
VOCs (ug/kg)						
Acetone	22	26	21	25	31	25000
Methyl ethyl ketone	ND	ND	ND	ND	ND	---
SVOCs (ug/kg)						
2-Methylnaphthalene	ND	ND	ND	8.7 J	ND	---
Acenaphthene	11 J	ND	8.2 J	26 J	15 J	570000
Acenaphthylene	ND	ND	14 J	12 J	10 J	---
Anthracene	37 J	16 J	40	140 J	58 J	1.20E+07
Benzo(a)anthracene	120	57	160	350	270	900 / 1100 / 1800
Benzo(a)pyrene	120	56	160	310	280	90 / 1300 / 2100
Benzo(b)fluoranthene	180	79	250	520	460	900 / 1500 / 2100
Benzo(g,h,i)perylene	51	21 J	73	120	110	---
Benzo(k)fluoranthene	82	34 J	110	210	190	9000
Chrysene	150	57	180	410	310	88000
Dibenzo(a,h)anthracene	19 J	11 J	22 J	44	37	90 / 200 420
Dibenzofuran	ND	ND	ND	ND	ND	---
Fluoranthene	310	130	380	850	630	3100000
Fluorene	11 J	ND	14 J	55	23 J	560000
Indeno(1,2,3-cd)pyrene	56	27 J	74	130	120	900 / 900 / 1600
Naphthalene, SVOC	ND	ND	ND	9.3 J	6.4 J	1800
Phenanthrene	160	59	200	580	320	---
Pyrene	240	99	320	670	520	2300000
Total Metals (mg/kg)						
Antimony, Total	ND	ND	ND	ND	ND	5
Arsenic, Total	8.3	13	8.5	7.9	9.5	11.3 / 13
Barium, Total	54	41	56	68	53	1500
Beryllium, Total	0.59	0.68	0.6	0.56	0.54	22
Cadmium, Total	0.2	0.24	0.21	0.23	0.23	5.2
Calcium, Total	12000 B	16000 B	20000 B	18000 B	20000 B	---
Chromium, Total	15	16	16	15	15	21
Cobalt, Total	12	15	13	13	13	20
Copper, Total	25 B	42 B	27 B	24 B	26 B	2900
Iron, Total	18000 B	22000 B	19000 B	17000 B	18000 B	15000 / 15900
Lead, Total	23	24	32	34	33	107
Magnesium, Total	9100 B	11000 B	15000 B	12000 B	14000 B	325000
Manganese, Total	340 B	280 B	370 B	440 B	460 B	630 / 636
Mercury, Total	0.057 B	0.045 B	0.047 B	0.046 J	0.094 J	0.89
Nickel, Total	30	36	29	28	31	100
Potassium, Total	1800	2100	2000	1500	1600	---
Selenium, Total	ND	0.68	0.64	ND	ND	1.3
Sodium, Total	84	86	91	88	86	---
Thallium, Total	ND	ND	ND	ND	ND	2.6
Vanadium, Total	20	22	21	20	19	550
Zinc, Total	57 B	76 B	61 B	60 B	60 B	5100

Summary Table of ISGS Site No. 2215V-1
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results - OUTSIDE EARTH RETENTION SYSTEM
Illinois Department of Transportation
FAI (I-290): Eisenhower Expressway - Des Plaines River Pump Station #4
Forest Park, Cook County, Illinois

Field Sample ID	FH-4(0-6)-091917	FH-4(6-12)-091917	FH-4(12-18)-091917	FH-5(0-6)-091917	FH-5(0-6)-091917D	Soil Reference Concentrations ^A
Sample Date	9/19/2017	9/19/2017	9/19/2017	9/19/2017	9/19/2017	
Location ID	FH-4	FH-4	FH-4	FH-5	FH-5	
Depth	0 - 6	6 - 12	12 - 18	0 - 6	0 - 6	
ISGS Site No.	2215V-1	2215V-1	2215V-1	2215V-1	2215V-1	
Parameter						
TCLP Metals (mg/l)						
Arsenic, TCLP	ND	ND	ND	ND	ND	0.05
Barium, TCLP	0.33 J	0.3 J	0.39 J	0.35 J	0.33 J	2
Cadmium, TCLP	0.003 J	0.0026 J	0.0033 J	0.0032 J	0.0033 J	0.005
Cobalt, TCLP	0.023 J	ND	0.031	0.017 J	0.015 J	1
Copper, TCLP	ND	ND	ND	ND	ND	0.65
Iron, TCLP	ND	ND	ND	ND	ND	5
Lead, TCLP	ND	ND	0.0097	ND	ND	0.0075
Manganese, TCLP	6.4	3.8	9	4.8	4.6	0.15
Nickel, TCLP	0.032	0.018 J	0.023 J	0.017 J	0.022 J	0.1
Zinc, TCLP	0.024 J	ND	0.03 J	0.034 J	0.031 J	5
SPLP Metals (mg/l)						
Arsenic, SPLP	ND	ND	ND	ND	ND	0.05
Barium, SPLP	0.14 J	0.13 J	0.091 J	0.16 J	0.14 J	2
Chromium, SPLP	0.013 J	0.014 J	ND	0.016 J	0.017 J	0.1
Cobalt, SPLP	ND	ND	ND	ND	ND	1
Copper, SPLP	0.019 J	0.039	0.014 J	0.029	0.033	0.65
Iron, SPLP	9.4	10	3.2	12	14	5
Lead, SPLP	0.0091	0.01	ND	0.017	0.015	0.0075
Manganese, SPLP	0.21	0.19	0.068	0.11	0.13	0.15
Nickel, SPLP	0.012 J	0.014 J	ND	0.015 J	0.016 J	0.1
Zinc, SPLP	0.066 J	0.094 J	0.051 J	0.095 J	0.084 J	5

Summary Table of ISGS Site No. 2215V-1
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results - OUTSIDE EARTH RETENTION SYSTEM
Illinois Department of Transportation
FAI (I-290): Eisenhower Expressway - Des Plaines River Pump Station #4
Forest Park, Cook County, Illinois

Field Sample ID	FH-6(0-6)-091917	FH-6(6-12)-091917	FH-6(6-12)-091917D	FH-6(12-18)-091917	FH-7(0-6)-091917	Soil Reference Concentrations ^A
Sample Date	9/19/2017	9/19/2017	9/19/2017	9/19/2017	9/19/2017	
Location ID	FH-6	FH-6	FH-6	FH-6	FH-7	
Depth	0 - 6	6 - 12	6 - 12	12 - 18	0 - 6	
ISGS Site No.	2215V-1	2215V-1	2215V-1	2215V-1	2215V-1	
Parameter						
Laboratory pH (s.u.)	7.9	7.9	8	7.6	8	<6.25,>9.0
VOCs (ug/kg)						
Acetone	ND	22	66	23	75	25000
Methyl ethyl ketone	ND	ND	5.3 J	ND	ND	---
SVOCs (ug/kg)						
2-Methylnaphthalene	ND	8.4 J	ND	ND	ND	---
Acenaphthene	ND	8.9 J	8.4 J	ND	12 J	570000
Acenaphthylene	ND	6.8 J	5.5 J	ND	ND	---
Anthracene	8.5 J	34 J	29 J	11 J	21 J	1.20E+07
Benzo(a)anthracene	48	140	100	46	87	900 / 1100 / 1800
Benzo(a)pyrene	56	140	100	50	93	90 / 1300 / 2100
Benzo(b)fluoranthene	90	190	160	73	130	900 / 1500 / 2100
Benzo(g,h,i)perylene	29 J	58	45	24 J	42	---
Benzo(k)fluoranthene	37	92	64	36 J	54	9000
Chrysene	57	160	120	56	100	88000
Dibenzo(a,h)anthracene	13 J	20 J	19 J	8.8 J	16 J	90 / 200 420
Dibenzofuran	ND	ND	ND	ND	ND	---
Fluoranthene	110	330	240	110	220	3100000
Fluorene	ND	15 J	11 J	ND	12 J	560000
Indeno(1,2,3-cd)pyrene	29 J	58	48	23 J	45	900 / 900 / 1600
Naphthalene, SVOC	ND	ND	ND	ND	ND	1800
Phenanthrene	49	200	140	75	140	---
Pyrene	95	270	210	95	180	2300000
Total Metals (mg/kg)						
Antimony, Total	0.31 J	0.45 J	0.3 J	0.43 J	0.36 J	5
Arsenic, Total	8.6	6.8	7	9.4	9.1	11.3 / 13
Barium, Total	49	49	42	40	58	1500
Beryllium, Total	0.61	0.58	0.54	0.58	0.69	22
Cadmium, Total	ND	ND	ND	ND	ND	5.2
Calcium, Total	15000 B	23000 B	18000 B	48000 B	13000 B	---
Chromium, Total	15	15	14	15	17	21
Cobalt, Total	12	12	11	14	12	20
Copper, Total	27	24	23	27	25	2900
Iron, Total	18000	17000	16000	18000	21000	15000 / 15900
Lead, Total	24	19	19	18	21	107
Magnesium, Total	9500	14000	12000	20000	10000	325000
Manganese, Total	360	570	390	400	380	630 / 636
Mercury, Total	0.039	0.037	0.038	0.036	0.032	0.89
Nickel, Total	29	29	26	34	31	100
Potassium, Total	1600	1600	1600	1900	1800	---
Selenium, Total	ND	ND	ND	ND	ND	1.3
Sodium, Total	76	85	96	99	89	---
Thallium, Total	ND	ND	ND	ND	ND	2.6
Vanadium, Total	21	20	19	20	24	550
Zinc, Total	75	59	57	65	63	5100

Summary Table of ISGS Site No. 2215V-1
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results - OUTSIDE EARTH RETENTION SYSTEM
Illinois Department of Transportation
FAI (I-290): Eisenhower Expressway - Des Plaines River Pump Station #4
Forest Park, Cook County, Illinois

Field Sample ID	FH-6(0-6)-091917	FH-6(6-12)-091917	FH-6(6-12)-091917D	FH-6(12-18)-091917	FH-7(0-6)-091917	Soil Reference Concentrations ^A
Sample Date	9/19/2017	9/19/2017	9/19/2017	9/19/2017	9/19/2017	
Location ID	FH-6	FH-6	FH-6	FH-6	FH-7	
Depth	0 - 6	6 - 12	6 - 12	12 - 18	0 - 6	
ISGS Site No.	2215V-1	2215V-1	2215V-1	2215V-1	2215V-1	
Parameter						
TCLP Metals (mg/l)						
Arsenic, TCLP	ND	ND	0.01 J	ND	0.01 J	0.05
Barium, TCLP	0.4 J	0.4 J	0.4 J	0.4 J	0.29 J	2
Cadmium, TCLP	0.0034 J	0.0031 J	0.0033 J	0.0025 J	0.0027 J	0.005
Cobalt, TCLP	0.038	0.034	0.038	0.022 J	0.023 J	1
Copper, TCLP	ND	ND	ND	ND	ND	0.65
Iron, TCLP	ND	ND	ND	ND	ND	5
Lead, TCLP	ND	ND	ND	ND	ND	0.0075
Manganese, TCLP	9.7	9.5	11	5.7	5.4	0.15
Nickel, TCLP	0.032	0.029	0.036	0.022 J	0.024 J	0.1
Zinc, TCLP	0.065 J	0.026 J	0.029 J	0.028 J	ND	5
SPLP Metals (mg/l)						
Arsenic, SPLP	ND	ND	ND	ND	ND	0.05
Barium, SPLP	0.2 J	0.23 J	0.15 J	0.083 J	0.084 J	2
Chromium, SPLP	0.024 J	0.027	0.013 J	ND	0.025	0.1
Cobalt, SPLP	ND	ND	ND	ND	ND	1
Copper, SPLP	0.045	0.063	0.037	0.039	0.03	0.65
Iron, SPLP	19	21 J	7.2 J	0.26 J	25	5
Lead, SPLP	0.019	0.02	0.0083	ND	0.016	0.0075
Manganese, SPLP	0.19	0.33 J	0.15 J	0.14	0.21	0.15
Nickel, SPLP	0.022 J	0.025	0.01 J	ND	0.022 J	0.1
Zinc, SPLP	0.15 J	0.17 J	0.11 J	0.064 J	0.047 J	5

Summary Table of ISGS Site No. 2215V-1
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results - OUTSIDE EARTH RETENTION SYSTEM
Illinois Department of Transportation
FAI (I-290): Eisenhower Expressway - Des Plaines River Pump Station #4
Forest Park, Cook County, Illinois

Field Sample ID	FH-7(6-12)-091917	FH-7(12-18)-091917	FH-18(0-4)-091917	FH-18(4-9)-091917	FH-19(0-6)-091917	Soil Reference Concentrations ^A
Sample Date	9/19/2017	9/19/2017	9/19/2017	9/19/2017	9/19/2017	
Location ID	FH-7	FH-7	FH-18	FH-18	FH-19	
Depth	6 - 12	12 - 18	0 - 4	4 - 9	0 - 6	
ISGS Site No.	2215V-1	2215V-1	2215V-1	2215V-1	2215V-1	
Parameter						
Laboratory pH (s.u.)	8	8.1	8.2	8.1	8.1	<6.25,>9.0
VOCs (ug/kg)						
Acetone	59	54	69	48	41	25000
Methyl ethyl ketone	ND	ND	ND	ND	ND	---
SVOCs (ug/kg)						
2-Methylnaphthalene	ND	ND	ND	ND	ND	---
Acenaphthene	7.4 J	ND	9.7 J	ND	ND	570000
Acenaphthylene	ND	ND	5.8 J	ND	ND	---
Anthracene	27 J	ND	38	9.6 J	13 J	1.20E+07
Benzo(a)anthracene	110	27 J	120	42	55	900 / 1100 / 1800
Benzo(a)pyrene	110	28 J	130	49	70	90 / 1300 / 2100
Benzo(b)fluoranthene	150	41	180	71	110	900 / 1500 / 2100
Benzo(g,h,i)perylene	47	15 J	47	24 J	32 J	---
Benzo(k)fluoranthene	75	17 J	79	30 J	50	9000
Chrysene	130	34 J	140	55	71	88000
Dibenzo(a,h)anthracene	18 J	ND	19 J	ND	ND	90 / 200 420
Dibenzofuran	ND	ND	ND	ND	ND	---
Fluoranthene	280	59	320	100	140	3100000
Fluorene	18 J	ND	19 J	ND	ND	560000
Indeno(1,2,3-cd)pyrene	49	17 J	50	25 J	35 J	900 / 900 / 1600
Naphthalene, SVOC	ND	ND	ND	ND	ND	1800
Phenanthrene	190	27 J	230	59	68	---
Pyrene	220	52	260	86	110	2300000
Total Metals (mg/kg)						
Antimony, Total	0.38 J	0.61 J	0.55 J	0.46 J	ND	5
Arsenic, Total	9	10	8.2	8.2	9.4	11.3 / 13
Barium, Total	52	51	57	63	71	1500
Beryllium, Total	0.7	0.62	0.77	0.76	0.64	22
Cadmium, Total	ND	ND	ND	ND	0.25	5.2
Calcium, Total	26000 B	27000 B	25000 B	18000 B	21000 B	---
Chromium, Total	17	17	18	20	17	21
Cobalt, Total	14	14	14	14	14	20
Copper, Total	27	30	28	28	29 B	2900
Iron, Total	20000	21000	21000	21000	19000 B	15000 / 15900
Lead, Total	20	22	24	20	33	107
Magnesium, Total	16000	17000	15000	13000	14000 B	325000
Manganese, Total	350	520	420	350	430 B	630 / 636
Mercury, Total	0.037	0.034	0.04	0.039	0.06 B	0.89
Nickel, Total	34	35	34	34	33	100
Potassium, Total	2200	2000	2100	2300	1900	---
Selenium, Total	ND	ND	ND	ND	0.76	1.3
Sodium, Total	94	95	94	84	88	---
Thallium, Total	ND	ND	ND	ND	0.43 J	2.6
Vanadium, Total	23	22	24	25	21	550
Zinc, Total	65	70	66	69	67 B	5100

Summary Table of ISGS Site No. 2215V-1
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results - OUTSIDE EARTH RETENTION SYSTEM
Illinois Department of Transportation
FAI (I-290): Eisenhower Expressway - Des Plaines River Pump Station #4
Forest Park, Cook County, Illinois

Field Sample ID	FH-7(6-12)-091917	FH-7(12-18)-091917	FH-18(0-4)-091917	FH-18(4-9)-091917	FH-19(0-6)-091917	Soil Reference Concentrations ^A
Sample Date	9/19/2017	9/19/2017	9/19/2017	9/19/2017	9/19/2017	
Location ID	FH-7	FH-7	FH-18	FH-18	FH-19	
Depth	6 - 12	12 - 18	0 - 4	4 - 9	0 - 6	
ISGS Site No.	2215V-1	2215V-1	2215V-1	2215V-1	2215V-1	
Parameter						
TCLP Metals (mg/l)						
Arsenic, TCLP	ND	ND	ND	ND	ND	0.05
Barium, TCLP	0.42 J	0.42 J	0.3 J	0.38 J	0.44 J	2
Cadmium, TCLP	0.0034 J	0.0034 J	0.0028 J	0.0028 J	0.003 J	0.005
Cobalt, TCLP	0.04	0.026	0.015 J	0.039	0.028	1
Copper, TCLP	0.025	ND	ND	0.019 J	ND	0.65
Iron, TCLP	ND	ND	ND	ND	ND	5
Lead, TCLP	ND	ND	ND	ND	ND	0.0075
Manganese, TCLP	9.7	11	4.7	11	7.1	0.15
Nickel, TCLP	0.03	0.024 J	0.028	0.031	0.024 J	0.1
Zinc, TCLP	0.044 J	0.021 J	ND	0.026 J	0.022 J	5
SPLP Metals (mg/l)						
Arsenic, SPLP	ND	ND	ND	ND	ND	0.05
Barium, SPLP	0.15 J	0.2 J	ND	ND	0.11 J	2
Chromium, SPLP	0.011 J	0.022 J	ND	ND	ND	0.1
Cobalt, SPLP	ND	ND	ND	ND	ND	1
Copper, SPLP	0.027	0.038	0.015 J	ND	0.021 J	0.65
Iron, SPLP	5	14	6.7	1.6	5.7	5
Lead, SPLP	ND	0.014	ND	ND	ND	0.0075
Manganese, SPLP	0.1	0.23	0.067	0.059	0.082	0.15
Nickel, SPLP	ND	0.019 J	ND	ND	ND	0.1
Zinc, SPLP	0.1 J	0.15 J	ND	ND	0.06 J	5

Summary Table of ISGS Site No. 2215V-1
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results - OUTSIDE EARTH RETENTION SYSTEM
Illinois Department of Transportation
FAI (I-290): Eisenhower Expressway - Des Plaines River Pump Station #4
Forest Park, Cook County, Illinois

Field Sample ID	FH-19(6-12)-091917	FH-19(12-18)-091917	FH-22(0-5)-092217	FH-22(5-10)-092217	FH-22(10-15)-092217	Soil Reference Concentrations ^A
Sample Date	9/19/2017	9/19/2017	9/22/2017	9/22/2017	9/22/2017	
Location ID	FH-19	FH-19	FH-22	FH-22	FH-22	
Depth	6 - 12	12 - 18	0 - 5	5 - 10	10 - 15	
ISGS Site No.	2215V-1	2215V-1	2215V-1	2215V-1	2215V-1	
Parameter						
Laboratory pH (s.u.)	8.2	8.3	8.4	8.2	8.3	<6.25,>9.0
VOCs (ug/kg)						
Acetone	21	39	ND	ND	41	25000
Methyl ethyl ketone	ND	ND	ND	ND	ND	---
SVOCs (ug/kg)						
2-Methylnaphthalene	ND	ND	ND	ND	ND	---
Acenaphthene	ND	ND	16 J	ND	28 J	570000
Acenaphthylene	ND	ND	6.9 J	ND	ND	---
Anthracene	8.2 J	ND	51	ND	52	1.20E+07
Benzo(a)anthracene	48	18 J	190	31 J	180	900 / 1100 / 1800
Benzo(a)pyrene	59	22 J	190	32 J	180	90 / 1300 / 2100
Benzo(b)fluoranthene	99	31 J	250	46	260	900 / 1500 / 2100
Benzo(g,h,i)perylene	50 J-	21 J	79	19 J	76	---
Benzo(k)fluoranthene	42	12 J	110	18 J	110	9000
Chrysene	57	28 J	220	38	210	88000
Dibenzo(a,h)anthracene	16 J	ND	22 J	ND	24 J	90 / 200 420
Dibenzofuran	ND	ND	ND	ND	ND	---
Fluoranthene	100	40	470	71	450	3100000
Fluorene	ND	ND	20 J	ND	26 J	560000
Indeno(1,2,3-cd)pyrene	44	18 J	79	17 J	84	900 / 900 / 1600
Naphthalene, SVOC	ND	ND	5.9 J	ND	7.6 J	1800
Phenanthrene	41	20 J	260	36 J	290 J	---
Pyrene	92	36 J	400	41	370 J	2300000
Total Metals (mg/kg)						
Antimony, Total	ND	ND	0.48 J	0.31 J	0.48 J	5
Arsenic, Total	10	8.1	8.1 J-	8.7	9	11.3 / 13
Barium, Total	62	53	49 J	54	53	1500
Beryllium, Total	0.69	0.64	0.66 J	0.76	0.75	22
Cadmium, Total	0.2	0.18	ND	ND	0.39 B	5.2
Calcium, Total	25000 B	68000 B	17000 J-	52000 B	27000 B	---
Chromium, Total	17	16	15 J	18	26	21
Cobalt, Total	14	13	10 J	14	14	20
Copper, Total	32 B	29 B	25 J-	27 B	27 B	2900
Iron, Total	20000 B	19000 B	17000 J	20000	19000	15000 / 15900
Lead, Total	29	18	30 J-	19	43	107
Magnesium, Total	16000 B	18000 B	11000 J-	21000	16000	325000
Manganese, Total	360 B	330 B	330 J-	600	440	630 / 636
Mercury, Total	0.043 B	0.046 B	0.048	0.035	0.037	0.89
Nickel, Total	34	33	25 J	36	32	100
Potassium, Total	2000	2300	1600 J+	2600	2200	---
Selenium, Total	0.44 J	ND	ND	ND	0.38 J	1.3
Sodium, Total	95	110	75 J	110	120	---
Thallium, Total	0.29 J	ND	ND	0.3 J	ND	2.6
Vanadium, Total	23	20	22 J	24	24	550
Zinc, Total	58 B	54 B	68 J	61	67	5100

Summary Table of ISGS Site No. 2215V-1
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results - OUTSIDE EARTH RETENTION SYSTEM
Illinois Department of Transportation
FAI (I-290): Eisenhower Expressway - Des Plaines River Pump Station #4
Forest Park, Cook County, Illinois

Field Sample ID	FH-19(6-12)-091917	FH-19(12-18)-091917	FH-22(0-5)-092217	FH-22(5-10)-092217	FH-22(10-15)-092217	Soil Reference Concentrations ^A
Sample Date	9/19/2017	9/19/2017	9/22/2017	9/22/2017	9/22/2017	
Location ID	FH-19	FH-19	FH-22	FH-22	FH-22	
Depth	6 - 12	12 - 18	0 - 5	5 - 10	10 - 15	
ISGS Site No.	2215V-1	2215V-1	2215V-1	2215V-1	2215V-1	
Parameter						
TCLP Metals (mg/l)						
Arsenic, TCLP	ND	ND	ND	ND	ND	0.05
Barium, TCLP	0.45 J	0.38 J	0.32 J	0.28 J	0.32 J	2
Cadmium, TCLP	0.0033 J	0.0028 J	0.0025 J	0.0025 J	0.0046 J	0.005
Cobalt, TCLP	0.03	0.02 J	ND	ND	0.011 J	1
Copper, TCLP	ND	ND	0.018 J	ND	ND	0.65
Iron, TCLP	ND	ND	0.22 J	ND	0.25 J	5
Lead, TCLP	ND	ND	ND	ND	ND	0.0075
Manganese, TCLP	9.2	6.3	0.24	0.38	3.1	0.15
Nickel, TCLP	0.027	0.018 J	ND	0.01 J	0.025	0.1
Zinc, TCLP	ND	ND	0.063 J	ND	0.024 J	5
SPLP Metals (mg/l)						
Arsenic, SPLP	ND	ND	ND	ND	0.014 J	0.05
Barium, SPLP	0.097 J	0.15 J	ND	ND	ND	2
Chromium, SPLP	ND	0.018 J	0.023 J	0.01 J	0.046	0.1
Cobalt, SPLP	ND	ND	ND	ND	ND	1
Copper, SPLP	0.018 J	0.024 J	ND	ND	ND	0.65
Iron, SPLP	2.8	15	19	8.1	43	5
Lead, SPLP	ND	0.013	0.013	ND	0.037	0.0075
Manganese, SPLP	0.093	0.35	0.12 B	ND	0.2 B	0.15
Nickel, SPLP	ND	0.018 J	0.021 J	ND	0.042	0.1
Zinc, SPLP	0.058 J	0.072 J	ND	ND	ND	5

Summary Table of ISGS Site No. 2215V-1
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results - OUTSIDE EARTH RETENTION SYSTEM
Illinois Department of Transportation
FAI (I-290): Eisenhower Expressway - Des Plaines River Pump Station #4
Forest Park, Cook County, Illinois

Field Sample ID	FH-22(10-15)-092217D	FH-22(15-20)-092217	FH-25(0-5)-091917	FH-25(5-10)-091917	FH-25(5-10)-091917D	Soil Reference Concentrations ^A
Sample Date	9/22/2017	9/22/2017	9/19/2017	9/19/2017	9/19/2017	
Location ID	FH-22	FH-22	FH-25	FH-25	FH-25	
Depth	10 - 15	15 - 20	0 - 5	5 - 10	5 - 10	
ISGS Site No.	2215V-1	2215V-1	2215V-1	2215V-1	2215V-1	
Parameter						
Laboratory pH (s.u.)	8.2	8.2	7.9	8	7.9	<6.25,>9.0
VOCs (ug/kg)						
Acetone	43	70	ND	40	38	25000
Methyl ethyl ketone	ND	9.4	ND	ND	ND	---
SVOCs (ug/kg)						
2-Methylnaphthalene	ND	11 J	ND	ND	ND	---
Acenaphthene	13 J	9.6 J	ND	ND	ND	570000
Acenaphthylene	ND	6.1 J	ND	ND	ND	---
Anthracene	24 J	34 J	ND	11 J	7.5 J	1.20E+07
Benzo(a)anthracene	120	160	19 J	50	36 J	900 / 1100 / 1800
Benzo(a)pyrene	130	180	24 J	57	37 J	90 / 1300 / 2100
Benzo(b)fluoranthene	180	260	34 J	83	53	900 / 1500 / 2100
Benzo(g,h,i)perylene	62	67	16 J	34 J	34 J	---
Benzo(k)fluoranthene	74	91	11 J	35 J	25 J	9000
Chrysene	140	200	23 J	59	43	88000
Dibenzo(a,h)anthracene	14 J	16 J	ND	13 J	ND	90 / 200 420
Dibenzofuran	ND	ND	ND	ND	ND	---
Fluoranthene	270	420	44	120	74	3100000
Fluorene	12 J	9.4 J	ND	ND	ND	560000
Indeno(1,2,3-cd)pyrene	67	73	18 J	32 J	28 J	900 / 900 / 1600
Naphthalene, SVOC	ND	9.8 J	ND	ND	ND	1800
Phenanthrene	150 J	180	22 J	61	40 J	---
Pyrene	220 J	340	39	100	47	2300000
Total Metals (mg/kg)						
Antimony, Total	0.38 J	0.47 J	ND	ND	ND	5
Arsenic, Total	9.9	9	6.3	12	9.9	11.3 / 13
Barium, Total	56	54	79	70	71	1500
Beryllium, Total	0.74	0.73	0.71	0.67	0.68	22
Cadmium, Total	0.42 B	ND	0.17	0.33	0.3	5.2
Calcium, Total	25000 B	28000 B	8500 B	19000 B	16000 B	---
Chromium, Total	23	18	18	17	17	21
Cobalt, Total	12	12	12	16	14	20
Copper, Total	27 B	28 B	26 B	30 B	30 B	2900
Iron, Total	18000	20000	19000 B	21000 B	21000 B	15000 / 15900
Lead, Total	34	35	19	33	31	107
Magnesium, Total	16000	17000	7700 B	15000 B	13000 B	325000
Manganese, Total	410	410	400 B	480 B	480 B	630 / 636
Mercury, Total	0.045	0.05	0.047 B	0.053 B	0.055 B	0.89
Nickel, Total	30	31	31	34	33	100
Potassium, Total	2000	1900	2100	2000	2000	---
Selenium, Total	0.42 J	ND	0.78	ND	0.42 J	1.3
Sodium, Total	110	99	75	81	82	---
Thallium, Total	ND	ND	ND	ND	ND	2.6
Vanadium, Total	23	23	23	22	23	550
Zinc, Total	67	67	57 B	61 B	67 B	5100

Summary Table of ISGS Site No. 2215V-1
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results - OUTSIDE EARTH RETENTION SYSTEM
Illinois Department of Transportation
FAI (I-290): Eisenhower Expressway - Des Plaines River Pump Station #4
Forest Park, Cook County, Illinois

Field Sample ID	FH-22(10-15)-092217D	FH-22(15-20)-092217	FH-25(0-5)-091917	FH-25(5-10)-091917	FH-25(5-10)-091917D	Soil Reference Concentrations ^A
Sample Date	9/22/2017	9/22/2017	9/19/2017	9/19/2017	9/19/2017	
Location ID	FH-22	FH-22	FH-25	FH-25	FH-25	
Depth	10 - 15	15 - 20	0 - 5	5 - 10	5 - 10	
ISGS Site No.	2215V-1	2215V-1	2215V-1	2215V-1	2215V-1	
Parameter						
TCLP Metals (mg/l)						
Arsenic, TCLP	ND	0.015 J	ND	ND	ND	0.05
Barium, TCLP	0.33 J	0.38 J	0.3 J	0.43 J	0.43 J	2
Cadmium, TCLP	0.0042 J	0.003 J	0.0027 J	0.0038 J	0.0033 J	0.005
Cobalt, TCLP	0.013 J	0.022 J	ND	0.05	0.053	1
Copper, TCLP	0.041	ND	ND	ND	ND	0.65
Iron, TCLP	ND	ND	ND	ND	ND	5
Lead, TCLP	ND	ND	ND	ND	ND	0.0075
Manganese, TCLP	3.3	6.4	2.5	13	14	0.15
Nickel, TCLP	0.026	0.025	ND	0.037	0.036	0.1
Zinc, TCLP	0.039 J	0.038 J	ND	0.053 J	0.053 J	5
SPLP Metals (mg/l)						
Arsenic, SPLP	0.011 J	ND	ND	ND	ND	0.05
Barium, SPLP	ND	ND	ND	ND	ND	2
Chromium, SPLP	0.035	0.013 J	ND	ND	ND	0.1
Cobalt, SPLP	ND	ND	ND	ND	ND	1
Copper, SPLP	ND	ND	ND	ND	ND	0.65
Iron, SPLP	35	11	5.2	2.1	1.9	5
Lead, SPLP	0.031	0.011	ND	ND	ND	0.0075
Manganese, SPLP	0.15 B	0.1 B	0.021 J	0.052	0.043	0.15
Nickel, SPLP	0.034	0.012 J	ND	ND	ND	0.1
Zinc, SPLP	ND	ND	ND	ND	ND	5

Summary Table of ISGS Site No. 2215V-1
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results - OUTSIDE EARTH RETENTION SYSTEM
Illinois Department of Transportation
FAI (I-290): Eisenhower Expressway - Des Plaines River Pump Station #4
Forest Park, Cook County, Illinois

Field Sample ID	FH-25(10-15)-091917	FH-25(15-20)-091917	FH-25(20-25)-091917	FH-27(0-5)-092217	FH-27(5-10)-092217	Soil Reference Concentrations ^A
Sample Date	9/19/2017	9/19/2017	9/19/2017	9/22/2017	9/22/2017	
Location ID	FH-25	FH-25	FH-25	FH-27	FH-27	
Depth	10 - 15	15 - 20	20 - 25	0 - 5	5 - 10	
ISGS Site No.	2215V-1	2215V-1	2215V-1	2215V-1	2215V-1	
Parameter						
Laboratory pH (s.u.)	7.9	8.1	8.1	8.2	8.2	<6.25,>9.0
VOCs (ug/kg)						
Acetone	45	42	52	ND	29	25000
Methyl ethyl ketone	ND	ND	ND	ND	ND	---
SVOCs (ug/kg)						
2-Methylnaphthalene	16 J	ND	ND	ND	ND	---
Acenaphthene	58	ND	ND	7.3 J	ND	570000
Acenaphthylene	16 J	ND	ND	8.7 J	6 J	---
Anthracene	270	11 J	ND	23 J	17 J	1.20E+07
Benzo(a)anthracene	700	43 J	18 J	100	100	900 / 1100 / 1800
Benzo(a)pyrene	580	52	23 J	110	120	90 / 1300 / 2100
Benzo(b)fluoranthene	770	70	26 J	160	170	900 / 1500 / 2100
Benzo(g,h,i)perylene	240	27 J	14 J	46	51	---
Benzo(k)fluoranthene	420	30 J	13 J	57	46	9000
Chrysene	720	52	28 J	120	130	88000
Dibenzo(a,h)anthracene	84	13 J	8.6 J	ND	ND	90 / 200 420
Dibenzofuran	49 J	ND	ND	ND	ND	---
Fluoranthene	1600	84	35 J	250	210	3100000
Fluorene	140	ND	ND	8.3 J	ND	560000
Indeno(1,2,3-cd)pyrene	250	28 J	16 J	47	44	900 / 900 / 1600
Naphthalene, SVOC	13 J	ND	ND	ND	ND	1800
Phenanthrene	1300	46	37 J	110	93	---
Pyrene	1300	74	37 J	200	220	2300000
Total Metals (mg/kg)						
Antimony, Total	0.6 J	0.53 J	0.46 J	0.23 J	0.29 J	5
Arsenic, Total	7.2	9.6	11	9.8	10	11.3 / 13
Barium, Total	50	80	35	51	77	1500
Beryllium, Total	0.66	0.86	0.49	0.74	0.6	22
Cadmium, Total	ND	ND	ND	ND	0.36 B	5.2
Calcium, Total	26000 B	17000 B	26000 B	19000 B	22000 B	---
Chromium, Total	19	21	14	16	13	21
Cobalt, Total	17	17	13	15	18	20
Copper, Total	26	39	27	30 B	27 B	2900
Iron, Total	21000	23000	17000	22000	19000	15000 / 15900
Lead, Total	20	58	23	21	34	107
Magnesium, Total	16000	11000	18000	14000	14000	325000
Manganese, Total	610	480	410	420	870	630 / 636
Mercury, Total	0.034	0.072	0.046	0.039	0.055	0.89
Nickel, Total	35	41	31	35	36	100
Potassium, Total	2700	2800	1800	1200	900	---
Selenium, Total	ND	ND	ND	0.38 J	0.39 J	1.3
Sodium, Total	91	90	110	65	78	---
Thallium, Total	ND	ND	ND	ND	ND	2.6
Vanadium, Total	24	29	19	19	18	550
Zinc, Total	63	100	72	73	63	5100

Summary Table of ISGS Site No. 2215V-1
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results - OUTSIDE EARTH RETENTION SYSTEM
Illinois Department of Transportation
FAI (I-290): Eisenhower Expressway - Des Plaines River Pump Station #4
Forest Park, Cook County, Illinois

Field Sample ID	FH-25(10-15)-091917	FH-25(15-20)-091917	FH-25(20-25)-091917	FH-27(0-5)-092217	FH-27(5-10)-092217	Soil Reference Concentrations ^A
Sample Date	9/19/2017	9/19/2017	9/19/2017	9/22/2017	9/22/2017	
Location ID	FH-25	FH-25	FH-25	FH-27	FH-27	
Depth	10 - 15	15 - 20	20 - 25	0 - 5	5 - 10	
ISGS Site No.	2215V-1	2215V-1	2215V-1	2215V-1	2215V-1	
Parameter						
TCLP Metals (mg/l)						
Arsenic, TCLP	0.01 J	0.016 J	ND	ND	ND	0.05
Barium, TCLP	0.46 J	0.46 J	0.5	0.33 J	0.38 J	2
Cadmium, TCLP	0.0034 J	0.0036 J	0.0037 J	0.0025 J	0.0032 J	0.005
Cobalt, TCLP	0.043	0.052	0.039	ND	ND	1
Copper, TCLP	0.026	ND	ND	ND	0.017 J	0.65
Iron, TCLP	ND	ND	ND	0.23 J	0.25 J	5
Lead, TCLP	ND	0.018	0.01	ND	ND	0.0075
Manganese, TCLP	12	10	11	0.32	2.8	0.15
Nickel, TCLP	0.032	0.038	0.034	ND	0.021 J	0.1
Zinc, TCLP	0.056 J	0.14 J	0.096 J	ND	0.068 J	5
SPLP Metals (mg/l)						
Arsenic, SPLP	ND	ND	ND	ND	ND	0.05
Barium, SPLP	ND	0.055 J	ND	ND	ND	2
Chromium, SPLP	ND	ND	ND	ND	0.011 J	0.1
Cobalt, SPLP	ND	ND	ND	ND	ND	1
Copper, SPLP	ND	0.015 J	ND	ND	ND	0.65
Iron, SPLP	0.99	9.1	3.3	4.6	7.8	5
Lead, SPLP	ND	0.011	ND	ND	ND	0.0075
Manganese, SPLP	ND	0.14	0.1	ND	ND	0.15
Nickel, SPLP	ND	ND	ND	ND	ND	0.1
Zinc, SPLP	ND	0.024 J	ND	ND	ND	5

Summary Table of ISGS Site No. 2215V-1
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results - OUTSIDE EARTH RETENTION SYSTEM
Illinois Department of Transportation
FAI (I-290): Eisenhower Expressway - Des Plaines River Pump Station #4
Forest Park, Cook County, Illinois

Field Sample ID	FH-27(10-15)-092217	FH-27(15-20)-092217	FH-27(20-25)-092217	Soil Reference Concentrations ^A
Sample Date	9/22/2017	9/22/2017	9/22/2017	
Location ID	FH-27	FH-27	FH-27	
Depth	10 - 15	15 - 20	20 - 25	
ISGS Site No.	2215V-1	2215V-1	2215V-1	
Parameter				
Laboratory pH (s.u.)	8.3	8.3	8.4	<6.25,>9.0
VOCs (ug/kg)				
Acetone	32	29	45	25000
Methyl ethyl ketone	ND	ND	ND	---
SVOCs (ug/kg)				
2-Methylnaphthalene	ND	ND	ND	---
Acenaphthene	ND	12 J	ND	570000
Acenaphthylene	ND	5.7 J	18 J	---
Anthracene	7.8 J	38 J	24 J	1.20E+07
Benzo(a)anthracene	42	180	170	900 / 1100 / 1800
Benzo(a)pyrene	51	190	150	90 / 1300 / 2100
Benzo(b)fluoranthene	76	250	210	900 / 1500 / 2100
Benzo(g,h,i)perylene	27 J	130	85	---
Benzo(k)fluoranthene	32 J	100	73	9000
Chrysene	54	190	160	88000
Dibenzo(a,h)anthracene	ND	33 J	31 J	90 / 200 420
Dibenzofuran	ND	ND	ND	---
Fluoranthene	85	400	200	3100000
Fluorene	ND	14 J	ND	560000
Indeno(1,2,3-cd)pyrene	25 J	110	82	900 / 900 / 1600
Naphthalene, SVOC	ND	ND	6.6 J	1800
Phenanthrene	33 J	190	68	---
Pyrene	58	340	170	2300000
Total Metals (mg/kg)				
Antimony, Total	ND	ND	0.32 J	5
Arsenic, Total	11	8.1	9.1	11.3 / 13
Barium, Total	52	52	78	1500
Beryllium, Total	0.71	0.68	0.78	22
Cadmium, Total	0.26 B	0.25 B	ND	5.2
Calcium, Total	19000 B	30000 B	28000 B	---
Chromium, Total	17	15	17	21
Cobalt, Total	13	14	17	20
Copper, Total	28 B	28 B	47 B	2900
Iron, Total	19000	19000	22000	15000 / 15900
Lead, Total	31	32	50	107
Magnesium, Total	14000	17000	16000	325000
Manganese, Total	370	420	590	630 / 636
Mercury, Total	0.045	0.031	0.036	0.89
Nickel, Total	30	34	37	100
Potassium, Total	1900	1300	1900	---
Selenium, Total	0.36 J	ND	0.39 J	1.3
Sodium, Total	82	80	94	---
Thallium, Total	ND	ND	ND	2.6
Vanadium, Total	23	17	18	550
Zinc, Total	75	68	95	5100

Summary Table of ISGS Site No. 2215V-1
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results - OUTSIDE EARTH RETENTION SYSTEM
Illinois Department of Transportation
FAI (I-290): Eisenhower Expressway - Des Plaines River Pump Station #4
Forest Park, Cook County, Illinois

Field Sample ID	FH-27(10-15)-092217	FH-27(15-20)-092217	FH-27(20-25)-092217	Soil Reference Concentrations ^A
Sample Date	9/22/2017	9/22/2017	9/22/2017	
Location ID	FH-27	FH-27	FH-27	
Depth	10 - 15	15 - 20	20 - 25	
ISGS Site No.	2215V-1	2215V-1	2215V-1	
Parameter				
TCLP Metals (mg/l)				
Arsenic, TCLP	ND	ND	0.012 J	0.05
Barium, TCLP	0.32 J	0.5	0.87	2
Cadmium, TCLP	0.0031 J	0.0035 J	0.0033 J	0.005
Cobalt, TCLP	0.018 J	0.041	0.035	1
Copper, TCLP	0.018 J	0.027	0.024 J	0.65
Iron, TCLP	ND	0.2 J	0.25 J	5
Lead, TCLP	ND	ND	0.0077	0.0075
Manganese, TCLP	4.1	9.4	13	0.15
Nickel, TCLP	0.03	0.037	0.027	0.1
Zinc, TCLP	0.058 J	0.096 J	0.33 J	5
SPLP Metals (mg/l)				
Arsenic, SPLP	ND	ND	ND	0.05
Barium, SPLP	ND	ND	ND	2
Chromium, SPLP	ND	0.011 J	0.03	0.1
Cobalt, SPLP	ND	ND	0.012 J	1
Copper, SPLP	ND	ND	ND	0.65
Iron, SPLP	2.9	6.3	26	5
Lead, SPLP	ND	0.0085	0.031	0.0075
Manganese, SPLP	ND	0.16 B	0.47 B	0.15
Nickel, SPLP	ND	ND	0.029	0.1
Zinc, SPLP	ND	ND	ND	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.

ND - Constituent not detected above the reporting limit.

B - Constituent detected in the laboratory blank and investigative samples.

J - Estimated concentration.

J+ - Estimated concentration, biased high.

J- - Estimated concentration, biased low.

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: 500-134251-1

Client Project/Site: IDOT - Eisenhower Expressway - WO 062

For:

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

Attn: Mr. S. Babusukumar



Authorized for release by:
9/28/2017 9:38:24 AM

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

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134251-1

Client Sample ID: FH-1(0-6)-091917

Lab Sample ID: 500-134251-1

Date Collected: 09/19/17 08:15

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 87.8

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	☼	09/20/17 08:40	09/21/17 11:48	1
Benzene	<1.8		1.8	0.46	ug/Kg	☼	09/20/17 08:40	09/21/17 11:48	1
Bromodichloromethane	<1.8		1.8	0.36	ug/Kg	☼	09/20/17 08:40	09/21/17 11:48	1
Bromoform	<1.8		1.8	0.52	ug/Kg	☼	09/20/17 08:40	09/21/17 11:48	1
Bromomethane	<4.5		4.5	1.7	ug/Kg	☼	09/20/17 08:40	09/21/17 11:48	1
Carbon disulfide	<4.5		4.5	0.93	ug/Kg	☼	09/20/17 08:40	09/21/17 11:48	1
Carbon tetrachloride	<1.8		1.8	0.52	ug/Kg	☼	09/20/17 08:40	09/21/17 11:48	1
Chlorobenzene	<1.8		1.8	0.66	ug/Kg	☼	09/20/17 08:40	09/21/17 11:48	1
Chloroethane	<4.5 *		4.5	1.3	ug/Kg	☼	09/20/17 08:40	09/21/17 11:48	1
Chloroform	<1.8		1.8	0.62	ug/Kg	☼	09/20/17 08:40	09/21/17 11:48	1
Chloromethane	<4.5		4.5	1.8	ug/Kg	☼	09/20/17 08:40	09/21/17 11:48	1
cis-1,2-Dichloroethene	<1.8		1.8	0.50	ug/Kg	☼	09/20/17 08:40	09/21/17 11:48	1
cis-1,3-Dichloropropene	<1.8		1.8	0.54	ug/Kg	☼	09/20/17 08:40	09/21/17 11:48	1
Dibromochloromethane	<1.8		1.8	0.58	ug/Kg	☼	09/20/17 08:40	09/21/17 11:48	1
1,1-Dichloroethane	<1.8		1.8	0.61	ug/Kg	☼	09/20/17 08:40	09/21/17 11:48	1
1,2-Dichloroethane	<4.5		4.5	1.4	ug/Kg	☼	09/20/17 08:40	09/21/17 11:48	1
1,1-Dichloroethene	<1.8		1.8	0.61	ug/Kg	☼	09/20/17 08:40	09/21/17 11:48	1
1,2-Dichloropropane	<1.8		1.8	0.46	ug/Kg	☼	09/20/17 08:40	09/21/17 11:48	1
1,3-Dichloropropene, Total	<1.8		1.8	0.63	ug/Kg	☼	09/20/17 08:40	09/21/17 11:48	1
Ethylbenzene	<1.8		1.8	0.85	ug/Kg	☼	09/20/17 08:40	09/21/17 11:48	1
2-Hexanone	<4.5		4.5	1.4	ug/Kg	☼	09/20/17 08:40	09/21/17 11:48	1
Methylene Chloride	<4.5		4.5	1.8	ug/Kg	☼	09/20/17 08:40	09/21/17 11:48	1
Methyl Ethyl Ketone	<4.5		4.5	2.0	ug/Kg	☼	09/20/17 08:40	09/21/17 11:48	1
methyl isobutyl ketone	<4.5		4.5	1.3	ug/Kg	☼	09/20/17 08:40	09/21/17 11:48	1
Methyl tert-butyl ether	<1.8		1.8	0.52	ug/Kg	☼	09/20/17 08:40	09/21/17 11:48	1
Styrene	<1.8		1.8	0.54	ug/Kg	☼	09/20/17 08:40	09/21/17 11:48	1
1,1,2,2-Tetrachloroethane	<1.8		1.8	0.57	ug/Kg	☼	09/20/17 08:40	09/21/17 11:48	1
Tetrachloroethene	<1.8		1.8	0.61	ug/Kg	☼	09/20/17 08:40	09/21/17 11:48	1
Toluene	<1.8		1.8	0.45	ug/Kg	☼	09/20/17 08:40	09/21/17 11:48	1
trans-1,2-Dichloroethene	<1.8		1.8	0.79	ug/Kg	☼	09/20/17 08:40	09/21/17 11:48	1
trans-1,3-Dichloropropene	<1.8		1.8	0.63	ug/Kg	☼	09/20/17 08:40	09/21/17 11:48	1
1,1,1-Trichloroethane	<1.8		1.8	0.60	ug/Kg	☼	09/20/17 08:40	09/21/17 11:48	1
1,1,2-Trichloroethane	<1.8		1.8	0.77	ug/Kg	☼	09/20/17 08:40	09/21/17 11:48	1
Trichloroethene	<1.8		1.8	0.60	ug/Kg	☼	09/20/17 08:40	09/21/17 11:48	1
Vinyl chloride	<1.8		1.8	0.79	ug/Kg	☼	09/20/17 08:40	09/21/17 11:48	1
Xylenes, Total	<3.6		3.6	0.57	ug/Kg	☼	09/20/17 08:40	09/21/17 11:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		75 - 131	09/20/17 08:40	09/21/17 11:48	1
Dibromofluoromethane	96		75 - 126	09/20/17 08:40	09/21/17 11:48	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	09/20/17 08:40	09/21/17 11:48	1
Toluene-d8 (Surr)	105		75 - 124	09/20/17 08:40	09/21/17 11:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	41	ug/Kg	☼	09/25/17 07:28	09/26/17 15:42	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	09/25/17 07:28	09/26/17 15:42	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	09/25/17 07:28	09/26/17 15:42	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	09/25/17 07:28	09/26/17 15:42	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	09/25/17 07:28	09/26/17 15:42	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134251-1

Client Sample ID: FH-1(0-6)-091917

Lab Sample ID: 500-134251-1

Date Collected: 09/19/17 08:15

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 87.8

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	86	ug/Kg	☼	09/25/17 07:28	09/26/17 15:42	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	09/25/17 07:28	09/26/17 15:42	1
2,4-Dichlorophenol	<370		370	90	ug/Kg	☼	09/25/17 07:28	09/26/17 15:42	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	09/25/17 07:28	09/26/17 15:42	1
2,4-Dinitrophenol	<760	*	760	660	ug/Kg	☼	09/25/17 07:28	09/26/17 15:42	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	09/25/17 07:28	09/26/17 15:42	1
2,6-Dinitrotoluene	<190		190	74	ug/Kg	☼	09/25/17 07:28	09/26/17 15:42	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	09/25/17 07:28	09/26/17 15:42	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	09/25/17 07:28	09/26/17 15:42	1
2-Methylnaphthalene	<76		76	6.9	ug/Kg	☼	09/25/17 07:28	09/26/17 15:42	1
2-Methylphenol	<190		190	61	ug/Kg	☼	09/25/17 07:28	09/26/17 15:42	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	09/25/17 07:28	09/26/17 15:42	1
2-Nitrophenol	<370		370	89	ug/Kg	☼	09/25/17 07:28	09/26/17 15:42	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	09/25/17 07:28	09/26/17 15:42	1
3,3'-Dichlorobenzidine	<190		190	53	ug/Kg	☼	09/25/17 07:28	09/26/17 15:42	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	09/25/17 07:28	09/26/17 15:42	1
4,6-Dinitro-2-methylphenol	<760		760	300	ug/Kg	☼	09/25/17 07:28	09/26/17 15:42	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	09/25/17 07:28	09/26/17 15:42	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	09/25/17 07:28	09/26/17 15:42	1
4-Chloroaniline	<760		760	180	ug/Kg	☼	09/25/17 07:28	09/26/17 15:42	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	09/25/17 07:28	09/26/17 15:42	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	09/25/17 07:28	09/26/17 15:42	1
4-Nitrophenol	<760		760	360	ug/Kg	☼	09/25/17 07:28	09/26/17 15:42	1
Acenaphthene	17	J	37	6.8	ug/Kg	☼	09/25/17 07:28	09/26/17 15:42	1
Acenaphthylene	9.7	J	37	5.0	ug/Kg	☼	09/25/17 07:28	09/26/17 15:42	1
Anthracene	88		37	6.3	ug/Kg	☼	09/25/17 07:28	09/26/17 15:42	1
Benzo[a]anthracene	230		37	5.1	ug/Kg	☼	09/25/17 07:28	09/26/17 15:42	1
Benzo[a]pyrene	210		37	7.3	ug/Kg	☼	09/25/17 07:28	09/26/17 15:42	1
Benzo[b]fluoranthene	300		37	8.1	ug/Kg	☼	09/25/17 07:28	09/26/17 15:42	1
Benzo[g,h,i]perylene	85		37	12	ug/Kg	☼	09/25/17 07:28	09/26/17 15:42	1
Benzo[k]fluoranthene	130		37	11	ug/Kg	☼	09/25/17 07:28	09/26/17 15:42	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	09/25/17 07:28	09/26/17 15:42	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	09/25/17 07:28	09/26/17 15:42	1
Bis(2-ethylhexyl) phthalate	<190		190	69	ug/Kg	☼	09/25/17 07:28	09/26/17 15:42	1
Butyl benzyl phthalate	<190		190	72	ug/Kg	☼	09/25/17 07:28	09/26/17 15:42	1
Carbazole	<190		190	94	ug/Kg	☼	09/25/17 07:28	09/26/17 15:42	1
Chrysene	250		37	10	ug/Kg	☼	09/25/17 07:28	09/26/17 15:42	1
Dibenz(a,h)anthracene	30	J	37	7.3	ug/Kg	☼	09/25/17 07:28	09/26/17 15:42	1
Dibenzofuran	<190		190	44	ug/Kg	☼	09/25/17 07:28	09/26/17 15:42	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	09/25/17 07:28	09/26/17 15:42	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	09/25/17 07:28	09/26/17 15:42	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	09/25/17 07:28	09/26/17 15:42	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	09/25/17 07:28	09/26/17 15:42	1
Fluoranthene	560		37	7.0	ug/Kg	☼	09/25/17 07:28	09/26/17 15:42	1
Fluorene	32	J	37	5.3	ug/Kg	☼	09/25/17 07:28	09/26/17 15:42	1
Hexachlorobenzene	<76		76	8.7	ug/Kg	☼	09/25/17 07:28	09/26/17 15:42	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	09/25/17 07:28	09/26/17 15:42	1
Hexachlorocyclopentadiene	<760		760	220	ug/Kg	☼	09/25/17 07:28	09/26/17 15:42	1
Hexachloroethane	<190		190	57	ug/Kg	☼	09/25/17 07:28	09/26/17 15:42	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134251-1

Client Sample ID: FH-1(0-6)-091917

Lab Sample ID: 500-134251-1

Date Collected: 09/19/17 08:15

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 87.8

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	89		37	9.8	ug/Kg	☼	09/25/17 07:28	09/26/17 15:42	1
Isophorone	<190		190	42	ug/Kg	☼	09/25/17 07:28	09/26/17 15:42	1
Naphthalene	5.9	J	37	5.8	ug/Kg	☼	09/25/17 07:28	09/26/17 15:42	1
Nitrobenzene	<37		37	9.4	ug/Kg	☼	09/25/17 07:28	09/26/17 15:42	1
N-Nitrosodi-n-propylamine	<76		76	46	ug/Kg	☼	09/25/17 07:28	09/26/17 15:42	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	09/25/17 07:28	09/26/17 15:42	1
Pentachlorophenol	<760		760	610	ug/Kg	☼	09/25/17 07:28	09/26/17 15:42	1
Phenanthrene	360		37	5.3	ug/Kg	☼	09/25/17 07:28	09/26/17 15:42	1
Phenol	<190		190	84	ug/Kg	☼	09/25/17 07:28	09/26/17 15:42	1
Pyrene	450		37	7.5	ug/Kg	☼	09/25/17 07:28	09/26/17 15:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	66		25 - 139				09/25/17 07:28	09/26/17 15:42	1
2-Fluorobiphenyl	73		44 - 121				09/25/17 07:28	09/26/17 15:42	1
2-Fluorophenol	97		46 - 133				09/25/17 07:28	09/26/17 15:42	1
Nitrobenzene-d5	71		41 - 120				09/25/17 07:28	09/26/17 15:42	1
Phenol-d5	80		46 - 125				09/25/17 07:28	09/26/17 15:42	1
Terphenyl-d14	77		35 - 160				09/25/17 07:28	09/26/17 15:42	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		09/22/17 14:46	09/25/17 18:21	1
Barium	0.26	J	0.50	0.050	mg/L		09/22/17 14:46	09/25/17 18:21	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/22/17 14:46	09/25/17 18:21	1
Cadmium	0.0025	J	0.0050	0.0020	mg/L		09/22/17 14:46	09/25/17 18:21	1
Chromium	<0.025		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 18:21	1
Cobalt	<0.025		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 18:21	1
Copper	<0.025		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 18:21	1
Iron	<0.40		0.40	0.20	mg/L		09/22/17 14:46	09/25/17 18:21	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/22/17 14:46	09/25/17 18:21	1
Manganese	1.5		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 18:21	1
Nickel	0.012	J	0.025	0.010	mg/L		09/22/17 14:46	09/25/17 18:21	1
Selenium	<0.050		0.050	0.020	mg/L		09/22/17 14:46	09/25/17 18:21	1
Silver	<0.025		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 18:21	1
Zinc	<0.50		0.50	0.020	mg/L		09/22/17 14:46	09/25/17 18:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.013	J	0.050	0.010	mg/L		09/21/17 16:28	09/22/17 20:00	1
Barium	0.10	J	0.50	0.050	mg/L		09/21/17 16:28	09/22/17 20:00	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/21/17 16:28	09/22/17 20:00	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/21/17 16:28	09/22/17 20:00	1
Chromium	0.032		0.025	0.010	mg/L		09/21/17 16:28	09/22/17 20:00	1
Cobalt	<0.025		0.025	0.010	mg/L		09/21/17 16:28	09/22/17 20:00	1
Copper	0.040		0.025	0.010	mg/L		09/21/17 16:28	09/22/17 20:00	1
Iron	32		0.40	0.20	mg/L		09/21/17 16:28	09/22/17 20:00	1
Lead	0.019		0.0075	0.0075	mg/L		09/21/17 16:28	09/22/17 20:00	1
Manganese	0.14		0.025	0.010	mg/L		09/21/17 16:28	09/22/17 20:00	1
Nickel	0.032		0.025	0.010	mg/L		09/21/17 16:28	09/22/17 20:00	1
Selenium	<0.050		0.050	0.020	mg/L		09/21/17 16:28	09/22/17 20:00	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134251-1

Client Sample ID: FH-1(0-6)-091917

Lab Sample ID: 500-134251-1

Date Collected: 09/19/17 08:15

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 87.8

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		09/21/17 16:28	09/22/17 20:00	1
Zinc	0.072	J	0.50	0.020	mg/L		09/21/17 16:28	09/22/17 20:00	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1	F1	1.1	0.21	mg/Kg	☼	09/20/17 17:04	09/21/17 14:13	1
Arsenic	10		0.55	0.19	mg/Kg	☼	09/20/17 17:04	09/21/17 14:13	1
Barium	46		0.55	0.062	mg/Kg	☼	09/20/17 17:04	09/21/17 14:13	1
Beryllium	0.57		0.22	0.051	mg/Kg	☼	09/20/17 17:04	09/21/17 14:13	1
Cadmium	0.18		0.11	0.020	mg/Kg	☼	09/20/17 17:04	09/21/17 14:13	1
Calcium	26000	B	11	1.8	mg/Kg	☼	09/20/17 17:04	09/21/17 14:13	1
Chromium	14		0.55	0.27	mg/Kg	☼	09/20/17 17:04	09/21/17 14:13	1
Cobalt	12		0.27	0.071	mg/Kg	☼	09/20/17 17:04	09/21/17 14:13	1
Copper	28	B	0.55	0.15	mg/Kg	☼	09/20/17 17:04	09/21/17 14:13	1
Iron	19000	B	11	5.7	mg/Kg	☼	09/20/17 17:04	09/21/17 14:13	1
Lead	19		0.27	0.13	mg/Kg	☼	09/20/17 17:04	09/21/17 14:13	1
Magnesium	17000	B	5.5	2.7	mg/Kg	☼	09/20/17 17:04	09/21/17 14:13	1
Manganese	400	F2 B	0.55	0.079	mg/Kg	☼	09/20/17 17:04	09/21/17 14:13	1
Nickel	29		0.55	0.16	mg/Kg	☼	09/20/17 17:04	09/21/17 14:13	1
Potassium	1700	F1	27	9.7	mg/Kg	☼	09/20/17 17:04	09/21/17 14:13	1
Selenium	<0.55		0.55	0.32	mg/Kg	☼	09/20/17 17:04	09/21/17 14:13	1
Silver	<0.27		0.27	0.070	mg/Kg	☼	09/20/17 17:04	09/21/17 14:13	1
Sodium	87		55	8.1	mg/Kg	☼	09/20/17 17:04	09/21/17 14:13	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	09/20/17 17:04	09/21/17 14:13	1
Vanadium	19		0.27	0.064	mg/Kg	☼	09/20/17 17:04	09/21/17 14:13	1
Zinc	57	B	1.1	0.48	mg/Kg	☼	09/20/17 17:04	09/21/17 14:13	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		09/22/17 11:15	09/25/17 08:58	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		09/21/17 12:42	09/22/17 11:20	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	51	B	18	6.0	ug/Kg	☼	09/22/17 16:20	09/25/17 12:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.1		0.20	0.20	SU			09/22/17 14:25	1

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134251-1

Client Sample ID: FH-2(0-6)-091917

Lab Sample ID: 500-134251-2

Date Collected: 09/19/17 08:27

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 88.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<21		21	9.2	ug/Kg	☼	09/20/17 08:40	09/21/17 12:13	1
Benzene	<2.1		2.1	0.54	ug/Kg	☼	09/20/17 08:40	09/21/17 12:13	1
Bromodichloromethane	<2.1		2.1	0.43	ug/Kg	☼	09/20/17 08:40	09/21/17 12:13	1
Bromoform	<2.1		2.1	0.62	ug/Kg	☼	09/20/17 08:40	09/21/17 12:13	1
Bromomethane	<5.3		5.3	2.0	ug/Kg	☼	09/20/17 08:40	09/21/17 12:13	1
Carbon disulfide	<5.3		5.3	1.1	ug/Kg	☼	09/20/17 08:40	09/21/17 12:13	1
Carbon tetrachloride	<2.1		2.1	0.61	ug/Kg	☼	09/20/17 08:40	09/21/17 12:13	1
Chlorobenzene	<2.1		2.1	0.78	ug/Kg	☼	09/20/17 08:40	09/21/17 12:13	1
Chloroethane	<5.3 *		5.3	1.6	ug/Kg	☼	09/20/17 08:40	09/21/17 12:13	1
Chloroform	<2.1		2.1	0.73	ug/Kg	☼	09/20/17 08:40	09/21/17 12:13	1
Chloromethane	<5.3		5.3	2.1	ug/Kg	☼	09/20/17 08:40	09/21/17 12:13	1
cis-1,2-Dichloroethene	<2.1		2.1	0.59	ug/Kg	☼	09/20/17 08:40	09/21/17 12:13	1
cis-1,3-Dichloropropene	<2.1		2.1	0.64	ug/Kg	☼	09/20/17 08:40	09/21/17 12:13	1
Dibromochloromethane	<2.1		2.1	0.69	ug/Kg	☼	09/20/17 08:40	09/21/17 12:13	1
1,1-Dichloroethane	<2.1		2.1	0.72	ug/Kg	☼	09/20/17 08:40	09/21/17 12:13	1
1,2-Dichloroethane	<5.3		5.3	1.6	ug/Kg	☼	09/20/17 08:40	09/21/17 12:13	1
1,1-Dichloroethene	<2.1		2.1	0.73	ug/Kg	☼	09/20/17 08:40	09/21/17 12:13	1
1,2-Dichloropropane	<2.1		2.1	0.55	ug/Kg	☼	09/20/17 08:40	09/21/17 12:13	1
1,3-Dichloropropene, Total	<2.1		2.1	0.74	ug/Kg	☼	09/20/17 08:40	09/21/17 12:13	1
Ethylbenzene	<2.1		2.1	1.0	ug/Kg	☼	09/20/17 08:40	09/21/17 12:13	1
2-Hexanone	<5.3		5.3	1.6	ug/Kg	☼	09/20/17 08:40	09/21/17 12:13	1
Methylene Chloride	<5.3		5.3	2.1	ug/Kg	☼	09/20/17 08:40	09/21/17 12:13	1
Methyl Ethyl Ketone	<5.3		5.3	2.3	ug/Kg	☼	09/20/17 08:40	09/21/17 12:13	1
methyl isobutyl ketone	<5.3		5.3	1.6	ug/Kg	☼	09/20/17 08:40	09/21/17 12:13	1
Methyl tert-butyl ether	<2.1		2.1	0.62	ug/Kg	☼	09/20/17 08:40	09/21/17 12:13	1
Styrene	<2.1		2.1	0.64	ug/Kg	☼	09/20/17 08:40	09/21/17 12:13	1
1,1,2,2-Tetrachloroethane	<2.1		2.1	0.67	ug/Kg	☼	09/20/17 08:40	09/21/17 12:13	1
Tetrachloroethene	<2.1		2.1	0.72	ug/Kg	☼	09/20/17 08:40	09/21/17 12:13	1
Toluene	<2.1		2.1	0.53	ug/Kg	☼	09/20/17 08:40	09/21/17 12:13	1
trans-1,2-Dichloroethene	<2.1		2.1	0.94	ug/Kg	☼	09/20/17 08:40	09/21/17 12:13	1
trans-1,3-Dichloropropene	<2.1		2.1	0.74	ug/Kg	☼	09/20/17 08:40	09/21/17 12:13	1
1,1,1-Trichloroethane	<2.1		2.1	0.71	ug/Kg	☼	09/20/17 08:40	09/21/17 12:13	1
1,1,2-Trichloroethane	<2.1		2.1	0.91	ug/Kg	☼	09/20/17 08:40	09/21/17 12:13	1
Trichloroethene	<2.1		2.1	0.71	ug/Kg	☼	09/20/17 08:40	09/21/17 12:13	1
Vinyl chloride	<2.1		2.1	0.93	ug/Kg	☼	09/20/17 08:40	09/21/17 12:13	1
Xylenes, Total	<4.2		4.2	0.68	ug/Kg	☼	09/20/17 08:40	09/21/17 12:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		75 - 131	09/20/17 08:40	09/21/17 12:13	1
Dibromofluoromethane	102		75 - 126	09/20/17 08:40	09/21/17 12:13	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	09/20/17 08:40	09/21/17 12:13	1
Toluene-d8 (Surr)	103		75 - 124	09/20/17 08:40	09/21/17 12:13	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	☼	09/25/17 07:28	09/26/17 16:07	1
1,2-Dichlorobenzene	<190		190	44	ug/Kg	☼	09/25/17 07:28	09/26/17 16:07	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	09/25/17 07:28	09/26/17 16:07	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	09/25/17 07:28	09/26/17 16:07	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	09/25/17 07:28	09/26/17 16:07	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134251-1

Client Sample ID: FH-2(0-6)-091917

Lab Sample ID: 500-134251-2

Date Collected: 09/19/17 08:27

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 88.6

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	☼	09/25/17 07:28	09/26/17 16:07	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	09/25/17 07:28	09/26/17 16:07	1
2,4-Dichlorophenol	<370		370	88	ug/Kg	☼	09/25/17 07:28	09/26/17 16:07	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	09/25/17 07:28	09/26/17 16:07	1
2,4-Dinitrophenol	<750	*	750	650	ug/Kg	☼	09/25/17 07:28	09/26/17 16:07	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	09/25/17 07:28	09/26/17 16:07	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	09/25/17 07:28	09/26/17 16:07	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	09/25/17 07:28	09/26/17 16:07	1
2-Chlorophenol	<190		190	63	ug/Kg	☼	09/25/17 07:28	09/26/17 16:07	1
2-Methylnaphthalene	<75		75	6.8	ug/Kg	☼	09/25/17 07:28	09/26/17 16:07	1
2-Methylphenol	<190		190	60	ug/Kg	☼	09/25/17 07:28	09/26/17 16:07	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	09/25/17 07:28	09/26/17 16:07	1
2-Nitrophenol	<370		370	88	ug/Kg	☼	09/25/17 07:28	09/26/17 16:07	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	09/25/17 07:28	09/26/17 16:07	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	09/25/17 07:28	09/26/17 16:07	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	09/25/17 07:28	09/26/17 16:07	1
4,6-Dinitro-2-methylphenol	<750		750	300	ug/Kg	☼	09/25/17 07:28	09/26/17 16:07	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	09/25/17 07:28	09/26/17 16:07	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	09/25/17 07:28	09/26/17 16:07	1
4-Chloroaniline	<750		750	170	ug/Kg	☼	09/25/17 07:28	09/26/17 16:07	1
4-Chlorophenyl phenyl ether	<190		190	43	ug/Kg	☼	09/25/17 07:28	09/26/17 16:07	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	09/25/17 07:28	09/26/17 16:07	1
4-Nitrophenol	<750		750	350	ug/Kg	☼	09/25/17 07:28	09/26/17 16:07	1
Acenaphthene	35	J	37	6.7	ug/Kg	☼	09/25/17 07:28	09/26/17 16:07	1
Acenaphthylene	52		37	4.9	ug/Kg	☼	09/25/17 07:28	09/26/17 16:07	1
Anthracene	150		37	6.2	ug/Kg	☼	09/25/17 07:28	09/26/17 16:07	1
Benzo[a]anthracene	610		37	5.0	ug/Kg	☼	09/25/17 07:28	09/26/17 16:07	1
Benzo[a]pyrene	630		37	7.2	ug/Kg	☼	09/25/17 07:28	09/26/17 16:07	1
Benzo[b]fluoranthene	970		37	8.0	ug/Kg	☼	09/25/17 07:28	09/26/17 16:07	1
Benzo[g,h,i]perylene	270		37	12	ug/Kg	☼	09/25/17 07:28	09/26/17 16:07	1
Benzo[k]fluoranthene	370		37	11	ug/Kg	☼	09/25/17 07:28	09/26/17 16:07	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	09/25/17 07:28	09/26/17 16:07	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	09/25/17 07:28	09/26/17 16:07	1
Bis(2-ethylhexyl) phthalate	<190		190	68	ug/Kg	☼	09/25/17 07:28	09/26/17 16:07	1
Butyl benzyl phthalate	<190		190	71	ug/Kg	☼	09/25/17 07:28	09/26/17 16:07	1
Carbazole	<190		190	93	ug/Kg	☼	09/25/17 07:28	09/26/17 16:07	1
Chrysene	690		37	10	ug/Kg	☼	09/25/17 07:28	09/26/17 16:07	1
Dibenz(a,h)anthracene	82		37	7.2	ug/Kg	☼	09/25/17 07:28	09/26/17 16:07	1
Dibenzofuran	<190		190	44	ug/Kg	☼	09/25/17 07:28	09/26/17 16:07	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	09/25/17 07:28	09/26/17 16:07	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	09/25/17 07:28	09/26/17 16:07	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	09/25/17 07:28	09/26/17 16:07	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	09/25/17 07:28	09/26/17 16:07	1
Fluoranthene	1400		37	6.9	ug/Kg	☼	09/25/17 07:28	09/26/17 16:07	1
Fluorene	42		37	5.2	ug/Kg	☼	09/25/17 07:28	09/26/17 16:07	1
Hexachlorobenzene	<75		75	8.6	ug/Kg	☼	09/25/17 07:28	09/26/17 16:07	1
Hexachlorobutadiene	<190		190	58	ug/Kg	☼	09/25/17 07:28	09/26/17 16:07	1
Hexachlorocyclopentadiene	<750		750	210	ug/Kg	☼	09/25/17 07:28	09/26/17 16:07	1
Hexachloroethane	<190		190	57	ug/Kg	☼	09/25/17 07:28	09/26/17 16:07	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134251-1

Client Sample ID: FH-2(0-6)-091917

Lab Sample ID: 500-134251-2

Date Collected: 09/19/17 08:27

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 88.6

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	280		37	9.6	ug/Kg	☼	09/25/17 07:28	09/26/17 16:07	1
Isophorone	<190		190	42	ug/Kg	☼	09/25/17 07:28	09/26/17 16:07	1
Naphthalene	11	J	37	5.7	ug/Kg	☼	09/25/17 07:28	09/26/17 16:07	1
Nitrobenzene	<37		37	9.3	ug/Kg	☼	09/25/17 07:28	09/26/17 16:07	1
N-Nitrosodi-n-propylamine	<75		75	45	ug/Kg	☼	09/25/17 07:28	09/26/17 16:07	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	09/25/17 07:28	09/26/17 16:07	1
Pentachlorophenol	<750		750	600	ug/Kg	☼	09/25/17 07:28	09/26/17 16:07	1
Phenanthrene	630		37	5.2	ug/Kg	☼	09/25/17 07:28	09/26/17 16:07	1
Phenol	<190		190	83	ug/Kg	☼	09/25/17 07:28	09/26/17 16:07	1
Pyrene	1100		37	7.4	ug/Kg	☼	09/25/17 07:28	09/26/17 16:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	85		25 - 139				09/25/17 07:28	09/26/17 16:07	1
2-Fluorobiphenyl	75		44 - 121				09/25/17 07:28	09/26/17 16:07	1
2-Fluorophenol	105		46 - 133				09/25/17 07:28	09/26/17 16:07	1
Nitrobenzene-d5	75		41 - 120				09/25/17 07:28	09/26/17 16:07	1
Phenol-d5	96		46 - 125				09/25/17 07:28	09/26/17 16:07	1
Terphenyl-d14	86		35 - 160				09/25/17 07:28	09/26/17 16:07	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/22/17 14:46	09/25/17 18:25	1
Barium	0.30	J	0.50	0.050	mg/L		09/22/17 14:46	09/25/17 18:25	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/22/17 14:46	09/25/17 18:25	1
Cadmium	0.0023	J	0.0050	0.0020	mg/L		09/22/17 14:46	09/25/17 18:25	1
Chromium	<0.025		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 18:25	1
Cobalt	<0.025		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 18:25	1
Copper	<0.025		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 18:25	1
Iron	<0.40		0.40	0.20	mg/L		09/22/17 14:46	09/25/17 18:25	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/22/17 14:46	09/25/17 18:25	1
Manganese	0.069		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 18:25	1
Nickel	<0.025		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 18:25	1
Selenium	<0.050		0.050	0.020	mg/L		09/22/17 14:46	09/25/17 18:25	1
Silver	<0.025		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 18:25	1
Zinc	<0.50		0.50	0.020	mg/L		09/22/17 14:46	09/25/17 18:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.019	J	0.050	0.010	mg/L		09/21/17 16:28	09/22/17 20:04	1
Barium	0.12	J	0.50	0.050	mg/L		09/21/17 16:28	09/22/17 20:04	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/21/17 16:28	09/22/17 20:04	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/21/17 16:28	09/22/17 20:04	1
Chromium	0.038		0.025	0.010	mg/L		09/21/17 16:28	09/22/17 20:04	1
Cobalt	<0.025		0.025	0.010	mg/L		09/21/17 16:28	09/22/17 20:04	1
Copper	0.050		0.025	0.010	mg/L		09/21/17 16:28	09/22/17 20:04	1
Iron	39		0.40	0.20	mg/L		09/21/17 16:28	09/22/17 20:04	1
Lead	0.025		0.0075	0.0075	mg/L		09/21/17 16:28	09/22/17 20:04	1
Manganese	0.14		0.025	0.010	mg/L		09/21/17 16:28	09/22/17 20:04	1
Nickel	0.034		0.025	0.010	mg/L		09/21/17 16:28	09/22/17 20:04	1
Selenium	<0.050		0.050	0.020	mg/L		09/21/17 16:28	09/22/17 20:04	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134251-1

Client Sample ID: FH-2(0-6)-091917

Lab Sample ID: 500-134251-2

Date Collected: 09/19/17 08:27

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 88.6

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		09/21/17 16:28	09/22/17 20:04	1
Zinc	0.089	J	0.50	0.020	mg/L		09/21/17 16:28	09/22/17 20:04	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.20	mg/Kg	☼	09/20/17 17:04	09/21/17 14:33	1
Arsenic	12		0.52	0.18	mg/Kg	☼	09/20/17 17:04	09/21/17 14:33	1
Barium	51		0.52	0.060	mg/Kg	☼	09/20/17 17:04	09/21/17 14:33	1
Beryllium	0.58		0.21	0.049	mg/Kg	☼	09/20/17 17:04	09/21/17 14:33	1
Cadmium	0.20		0.10	0.019	mg/Kg	☼	09/20/17 17:04	09/21/17 14:33	1
Calcium	18000	B	10	1.8	mg/Kg	☼	09/20/17 17:04	09/21/17 14:33	1
Chromium	15		0.52	0.26	mg/Kg	☼	09/20/17 17:04	09/21/17 14:33	1
Cobalt	12		0.26	0.069	mg/Kg	☼	09/20/17 17:04	09/21/17 14:33	1
Copper	27	B	0.52	0.15	mg/Kg	☼	09/20/17 17:04	09/21/17 14:33	1
Iron	18000	B	10	5.4	mg/Kg	☼	09/20/17 17:04	09/21/17 14:33	1
Lead	26		0.26	0.12	mg/Kg	☼	09/20/17 17:04	09/21/17 14:33	1
Magnesium	12000	B	5.2	2.6	mg/Kg	☼	09/20/17 17:04	09/21/17 14:33	1
Manganese	380	B	0.52	0.076	mg/Kg	☼	09/20/17 17:04	09/21/17 14:33	1
Nickel	30		0.52	0.15	mg/Kg	☼	09/20/17 17:04	09/21/17 14:33	1
Potassium	1800		26	9.3	mg/Kg	☼	09/20/17 17:04	09/21/17 14:33	1
Selenium	<0.52		0.52	0.31	mg/Kg	☼	09/20/17 17:04	09/21/17 14:33	1
Silver	<0.26		0.26	0.067	mg/Kg	☼	09/20/17 17:04	09/21/17 14:33	1
Sodium	80		52	7.7	mg/Kg	☼	09/20/17 17:04	09/21/17 14:33	1
Thallium	<0.52		0.52	0.26	mg/Kg	☼	09/20/17 17:04	09/21/17 14:33	1
Vanadium	20		0.26	0.062	mg/Kg	☼	09/20/17 17:04	09/21/17 14:33	1
Zinc	62	B	1.0	0.46	mg/Kg	☼	09/20/17 17:04	09/21/17 14:33	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		09/22/17 11:15	09/25/17 09:00	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		09/21/17 12:42	09/22/17 11:21	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	160	B	18	5.8	ug/Kg	☼	09/22/17 16:20	09/25/17 12:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.0		0.20	0.20	SU			09/22/17 14:29	1

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134251-1

Client Sample ID: FH-2(6-12)-091917

Lab Sample ID: 500-134251-3

Date Collected: 09/19/17 08:55

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 85.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	30		19	8.3	ug/Kg	☼	09/20/17 08:40	09/21/17 12:38	1
Benzene	<1.9		1.9	0.48	ug/Kg	☼	09/20/17 08:40	09/21/17 12:38	1
Bromodichloromethane	<1.9		1.9	0.39	ug/Kg	☼	09/20/17 08:40	09/21/17 12:38	1
Bromoform	<1.9		1.9	0.55	ug/Kg	☼	09/20/17 08:40	09/21/17 12:38	1
Bromomethane	<4.7		4.7	1.8	ug/Kg	☼	09/20/17 08:40	09/21/17 12:38	1
Carbon disulfide	<4.7		4.7	0.99	ug/Kg	☼	09/20/17 08:40	09/21/17 12:38	1
Carbon tetrachloride	<1.9		1.9	0.55	ug/Kg	☼	09/20/17 08:40	09/21/17 12:38	1
Chlorobenzene	<1.9		1.9	0.70	ug/Kg	☼	09/20/17 08:40	09/21/17 12:38	1
Chloroethane	<4.7 *		4.7	1.4	ug/Kg	☼	09/20/17 08:40	09/21/17 12:38	1
Chloroform	<1.9		1.9	0.66	ug/Kg	☼	09/20/17 08:40	09/21/17 12:38	1
Chloromethane	<4.7		4.7	1.9	ug/Kg	☼	09/20/17 08:40	09/21/17 12:38	1
cis-1,2-Dichloroethene	<1.9		1.9	0.53	ug/Kg	☼	09/20/17 08:40	09/21/17 12:38	1
cis-1,3-Dichloropropene	<1.9		1.9	0.57	ug/Kg	☼	09/20/17 08:40	09/21/17 12:38	1
Dibromochloromethane	<1.9		1.9	0.62	ug/Kg	☼	09/20/17 08:40	09/21/17 12:38	1
1,1-Dichloroethane	<1.9		1.9	0.65	ug/Kg	☼	09/20/17 08:40	09/21/17 12:38	1
1,2-Dichloroethane	<4.7		4.7	1.5	ug/Kg	☼	09/20/17 08:40	09/21/17 12:38	1
1,1-Dichloroethene	<1.9		1.9	0.65	ug/Kg	☼	09/20/17 08:40	09/21/17 12:38	1
1,2-Dichloropropane	<1.9		1.9	0.49	ug/Kg	☼	09/20/17 08:40	09/21/17 12:38	1
1,3-Dichloropropene, Total	<1.9		1.9	0.67	ug/Kg	☼	09/20/17 08:40	09/21/17 12:38	1
Ethylbenzene	<1.9		1.9	0.91	ug/Kg	☼	09/20/17 08:40	09/21/17 12:38	1
2-Hexanone	<4.7		4.7	1.5	ug/Kg	☼	09/20/17 08:40	09/21/17 12:38	1
Methylene Chloride	<4.7		4.7	1.9	ug/Kg	☼	09/20/17 08:40	09/21/17 12:38	1
Methyl Ethyl Ketone	<4.7		4.7	2.1	ug/Kg	☼	09/20/17 08:40	09/21/17 12:38	1
methyl isobutyl ketone	<4.7		4.7	1.4	ug/Kg	☼	09/20/17 08:40	09/21/17 12:38	1
Methyl tert-butyl ether	<1.9		1.9	0.56	ug/Kg	☼	09/20/17 08:40	09/21/17 12:38	1
Styrene	<1.9		1.9	0.57	ug/Kg	☼	09/20/17 08:40	09/21/17 12:38	1
1,1,2,2-Tetrachloroethane	<1.9		1.9	0.61	ug/Kg	☼	09/20/17 08:40	09/21/17 12:38	1
Tetrachloroethene	<1.9		1.9	0.65	ug/Kg	☼	09/20/17 08:40	09/21/17 12:38	1
Toluene	<1.9		1.9	0.48	ug/Kg	☼	09/20/17 08:40	09/21/17 12:38	1
trans-1,2-Dichloroethene	<1.9		1.9	0.84	ug/Kg	☼	09/20/17 08:40	09/21/17 12:38	1
trans-1,3-Dichloropropene	<1.9		1.9	0.67	ug/Kg	☼	09/20/17 08:40	09/21/17 12:38	1
1,1,1-Trichloroethane	<1.9		1.9	0.64	ug/Kg	☼	09/20/17 08:40	09/21/17 12:38	1
1,1,2-Trichloroethane	<1.9		1.9	0.81	ug/Kg	☼	09/20/17 08:40	09/21/17 12:38	1
Trichloroethene	<1.9		1.9	0.64	ug/Kg	☼	09/20/17 08:40	09/21/17 12:38	1
Vinyl chloride	<1.9		1.9	0.84	ug/Kg	☼	09/20/17 08:40	09/21/17 12:38	1
Xylenes, Total	<3.8		3.8	0.61	ug/Kg	☼	09/20/17 08:40	09/21/17 12:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		75 - 131	09/20/17 08:40	09/21/17 12:38	1
Dibromofluoromethane	95		75 - 126	09/20/17 08:40	09/21/17 12:38	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	09/20/17 08:40	09/21/17 12:38	1
Toluene-d8 (Surr)	101		75 - 124	09/20/17 08:40	09/21/17 12:38	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	☼	09/25/17 07:28	09/26/17 16:32	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	09/25/17 07:28	09/26/17 16:32	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	09/25/17 07:28	09/26/17 16:32	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	09/25/17 07:28	09/26/17 16:32	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	09/25/17 07:28	09/26/17 16:32	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134251-1

Client Sample ID: FH-2(6-12)-091917

Lab Sample ID: 500-134251-3

Date Collected: 09/19/17 08:55

Matrix: Solid

Date Received: 09/19/17 16:45

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	<380		380	88	ug/Kg	☼	09/25/17 07:28	09/26/17 16:32	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	09/25/17 07:28	09/26/17 16:32	1
2,4-Dichlorophenol	<380		380	91	ug/Kg	☼	09/25/17 07:28	09/26/17 16:32	1
2,4-Dimethylphenol	<380		380	150	ug/Kg	☼	09/25/17 07:28	09/26/17 16:32	1
2,4-Dinitrophenol	<770 *		770	680	ug/Kg	☼	09/25/17 07:28	09/26/17 16:32	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	09/25/17 07:28	09/26/17 16:32	1
2,6-Dinitrotoluene	<190		190	75	ug/Kg	☼	09/25/17 07:28	09/26/17 16:32	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	09/25/17 07:28	09/26/17 16:32	1
2-Chlorophenol	<190		190	65	ug/Kg	☼	09/25/17 07:28	09/26/17 16:32	1
2-Methylnaphthalene	<77		77	7.1	ug/Kg	☼	09/25/17 07:28	09/26/17 16:32	1
2-Methylphenol	<190		190	62	ug/Kg	☼	09/25/17 07:28	09/26/17 16:32	1
2-Nitroaniline	<190		190	52	ug/Kg	☼	09/25/17 07:28	09/26/17 16:32	1
2-Nitrophenol	<380		380	91	ug/Kg	☼	09/25/17 07:28	09/26/17 16:32	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	☼	09/25/17 07:28	09/26/17 16:32	1
3,3'-Dichlorobenzidine	<190		190	54	ug/Kg	☼	09/25/17 07:28	09/26/17 16:32	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	09/25/17 07:28	09/26/17 16:32	1
4,6-Dinitro-2-methylphenol	<770		770	310	ug/Kg	☼	09/25/17 07:28	09/26/17 16:32	1
4-Bromophenyl phenyl ether	<190		190	51	ug/Kg	☼	09/25/17 07:28	09/26/17 16:32	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	09/25/17 07:28	09/26/17 16:32	1
4-Chloroaniline	<770		770	180	ug/Kg	☼	09/25/17 07:28	09/26/17 16:32	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	09/25/17 07:28	09/26/17 16:32	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	09/25/17 07:28	09/26/17 16:32	1
4-Nitrophenol	<770		770	360	ug/Kg	☼	09/25/17 07:28	09/26/17 16:32	1
Acenaphthene	<38		38	6.9	ug/Kg	☼	09/25/17 07:28	09/26/17 16:32	1
Acenaphthylene	<38		38	5.1	ug/Kg	☼	09/25/17 07:28	09/26/17 16:32	1
Anthracene	11 J		38	6.4	ug/Kg	☼	09/25/17 07:28	09/26/17 16:32	1
Benzo[a]anthracene	47		38	5.2	ug/Kg	☼	09/25/17 07:28	09/26/17 16:32	1
Benzo[a]pyrene	59		38	7.4	ug/Kg	☼	09/25/17 07:28	09/26/17 16:32	1
Benzo[b]fluoranthene	89		38	8.3	ug/Kg	☼	09/25/17 07:28	09/26/17 16:32	1
Benzo[g,h,i]perylene	28 J		38	12	ug/Kg	☼	09/25/17 07:28	09/26/17 16:32	1
Benzo[k]fluoranthene	37 J		38	11	ug/Kg	☼	09/25/17 07:28	09/26/17 16:32	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	09/25/17 07:28	09/26/17 16:32	1
Bis(2-chloroethyl)ether	<190		190	58	ug/Kg	☼	09/25/17 07:28	09/26/17 16:32	1
Bis(2-ethylhexyl) phthalate	<190		190	70	ug/Kg	☼	09/25/17 07:28	09/26/17 16:32	1
Butyl benzyl phthalate	<190		190	73	ug/Kg	☼	09/25/17 07:28	09/26/17 16:32	1
Carbazole	<190		190	96	ug/Kg	☼	09/25/17 07:28	09/26/17 16:32	1
Chrysene	59		38	10	ug/Kg	☼	09/25/17 07:28	09/26/17 16:32	1
Dibenz(a,h)anthracene	11 J		38	7.4	ug/Kg	☼	09/25/17 07:28	09/26/17 16:32	1
Dibenzofuran	<190		190	45	ug/Kg	☼	09/25/17 07:28	09/26/17 16:32	1
Diethyl phthalate	<190		190	65	ug/Kg	☼	09/25/17 07:28	09/26/17 16:32	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	09/25/17 07:28	09/26/17 16:32	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	09/25/17 07:28	09/26/17 16:32	1
Di-n-octyl phthalate	<190		190	63	ug/Kg	☼	09/25/17 07:28	09/26/17 16:32	1
Fluoranthene	110		38	7.1	ug/Kg	☼	09/25/17 07:28	09/26/17 16:32	1
Fluorene	<38		38	5.4	ug/Kg	☼	09/25/17 07:28	09/26/17 16:32	1
Hexachlorobenzene	<77		77	8.9	ug/Kg	☼	09/25/17 07:28	09/26/17 16:32	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	09/25/17 07:28	09/26/17 16:32	1
Hexachlorocyclopentadiene	<770		770	220	ug/Kg	☼	09/25/17 07:28	09/26/17 16:32	1
Hexachloroethane	<190		190	58	ug/Kg	☼	09/25/17 07:28	09/26/17 16:32	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134251-1

Client Sample ID: FH-2(6-12)-091917

Lab Sample ID: 500-134251-3

Date Collected: 09/19/17 08:55

Matrix: Solid

Date Received: 09/19/17 16:45

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	30	J	38	9.9	ug/Kg	☼	09/25/17 07:28	09/26/17 16:32	1
Isophorone	<190		190	43	ug/Kg	☼	09/25/17 07:28	09/26/17 16:32	1
Naphthalene	<38		38	5.9	ug/Kg	☼	09/25/17 07:28	09/26/17 16:32	1
Nitrobenzene	<38		38	9.6	ug/Kg	☼	09/25/17 07:28	09/26/17 16:32	1
N-Nitrosodi-n-propylamine	<77		77	47	ug/Kg	☼	09/25/17 07:28	09/26/17 16:32	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	09/25/17 07:28	09/26/17 16:32	1
Pentachlorophenol	<770		770	620	ug/Kg	☼	09/25/17 07:28	09/26/17 16:32	1
Phenanthrene	51		38	5.3	ug/Kg	☼	09/25/17 07:28	09/26/17 16:32	1
Phenol	<190		190	85	ug/Kg	☼	09/25/17 07:28	09/26/17 16:32	1
Pyrene	92		38	7.6	ug/Kg	☼	09/25/17 07:28	09/26/17 16:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	72		25 - 139				09/25/17 07:28	09/26/17 16:32	1
2-Fluorobiphenyl	69		44 - 121				09/25/17 07:28	09/26/17 16:32	1
2-Fluorophenol	83		46 - 133				09/25/17 07:28	09/26/17 16:32	1
Nitrobenzene-d5	72		41 - 120				09/25/17 07:28	09/26/17 16:32	1
Phenol-d5	77		46 - 125				09/25/17 07:28	09/26/17 16:32	1
Terphenyl-d14	74		35 - 160				09/25/17 07:28	09/26/17 16:32	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		09/22/17 14:46	09/25/17 18:29	1
Barium	0.27	J	0.50	0.050	mg/L		09/22/17 14:46	09/25/17 18:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/22/17 14:46	09/25/17 18:29	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/22/17 14:46	09/25/17 18:29	1
Chromium	<0.025		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 18:29	1
Cobalt	<0.025		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 18:29	1
Copper	<0.025		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 18:29	1
Iron	0.20	J	0.40	0.20	mg/L		09/22/17 14:46	09/25/17 18:29	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/22/17 14:46	09/25/17 18:29	1
Manganese	0.033		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 18:29	1
Nickel	<0.025		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 18:29	1
Selenium	<0.050		0.050	0.020	mg/L		09/22/17 14:46	09/25/17 18:29	1
Silver	<0.025		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 18:29	1
Zinc	<0.50		0.50	0.020	mg/L		09/22/17 14:46	09/25/17 18:29	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		09/21/17 16:28	09/25/17 12:14	1
Barium	0.14	J	0.50	0.050	mg/L		09/21/17 16:28	09/25/17 12:14	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/21/17 16:28	09/25/17 12:14	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/21/17 16:28	09/25/17 12:14	1
Chromium	0.012	J	0.025	0.010	mg/L		09/21/17 16:28	09/25/17 12:14	1
Cobalt	<0.025		0.025	0.010	mg/L		09/21/17 16:28	09/25/17 12:14	1
Copper	0.025		0.025	0.010	mg/L		09/21/17 16:28	09/25/17 12:14	1
Iron	6.6		0.40	0.20	mg/L		09/21/17 16:28	09/25/17 12:14	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/21/17 16:28	09/25/17 12:14	1
Manganese	0.038		0.025	0.010	mg/L		09/21/17 16:28	09/25/17 12:14	1
Nickel	<0.025		0.025	0.010	mg/L		09/21/17 16:28	09/25/17 12:14	1
Selenium	<0.050		0.050	0.020	mg/L		09/21/17 16:28	09/25/17 12:14	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134251-1

Client Sample ID: FH-2(6-12)-091917

Lab Sample ID: 500-134251-3

Date Collected: 09/19/17 08:55

Matrix: Solid

Date Received: 09/19/17 16:45

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		09/21/17 16:28	09/25/17 12:14	1
Zinc	0.075	J	0.50	0.020	mg/L		09/21/17 16:28	09/25/17 12:14	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.21	mg/Kg	☼	09/20/17 17:04	09/21/17 14:36	1
Arsenic	9.8		0.55	0.19	mg/Kg	☼	09/20/17 17:04	09/21/17 14:36	1
Barium	50		0.55	0.062	mg/Kg	☼	09/20/17 17:04	09/21/17 14:36	1
Beryllium	0.64		0.22	0.051	mg/Kg	☼	09/20/17 17:04	09/21/17 14:36	1
Cadmium	0.20		0.11	0.020	mg/Kg	☼	09/20/17 17:04	09/21/17 14:36	1
Calcium	27000	B	11	1.9	mg/Kg	☼	09/20/17 17:04	09/21/17 14:36	1
Chromium	17		0.55	0.27	mg/Kg	☼	09/20/17 17:04	09/21/17 14:36	1
Cobalt	12		0.27	0.072	mg/Kg	☼	09/20/17 17:04	09/21/17 14:36	1
Copper	30	B	0.55	0.15	mg/Kg	☼	09/20/17 17:04	09/21/17 14:36	1
Iron	20000	B	11	5.7	mg/Kg	☼	09/20/17 17:04	09/21/17 14:36	1
Lead	22		0.27	0.13	mg/Kg	☼	09/20/17 17:04	09/21/17 14:36	1
Magnesium	18000	B	5.5	2.7	mg/Kg	☼	09/20/17 17:04	09/21/17 14:36	1
Manganese	310	B	0.55	0.079	mg/Kg	☼	09/20/17 17:04	09/21/17 14:36	1
Nickel	31		0.55	0.16	mg/Kg	☼	09/20/17 17:04	09/21/17 14:36	1
Potassium	2200		27	9.7	mg/Kg	☼	09/20/17 17:04	09/21/17 14:36	1
Selenium	0.38	J	0.55	0.32	mg/Kg	☼	09/20/17 17:04	09/21/17 14:36	1
Silver	<0.27		0.27	0.071	mg/Kg	☼	09/20/17 17:04	09/21/17 14:36	1
Sodium	93		55	8.1	mg/Kg	☼	09/20/17 17:04	09/21/17 14:36	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	09/20/17 17:04	09/21/17 14:36	1
Vanadium	21		0.27	0.065	mg/Kg	☼	09/20/17 17:04	09/21/17 14:36	1
Zinc	57	B	1.1	0.48	mg/Kg	☼	09/20/17 17:04	09/21/17 14:36	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		09/22/17 11:15	09/25/17 09:01	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		09/21/17 12:42	09/22/17 11:23	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	46	B	17	5.7	ug/Kg	☼	09/22/17 16:20	09/25/17 12:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.1		0.20	0.20	SU			09/22/17 14:33	1

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134251-1

Client Sample ID: FH-2(12-18)-091917

Lab Sample ID: 500-134251-4

Date Collected: 09/19/17 09:10

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 81.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	38		22	9.6	ug/Kg	☼	09/20/17 08:40	09/21/17 13:03	1
Benzene	<2.2		2.2	0.57	ug/Kg	☼	09/20/17 08:40	09/21/17 13:03	1
Bromodichloromethane	<2.2		2.2	0.45	ug/Kg	☼	09/20/17 08:40	09/21/17 13:03	1
Bromoform	<2.2		2.2	0.65	ug/Kg	☼	09/20/17 08:40	09/21/17 13:03	1
Bromomethane	<5.5		5.5	2.1	ug/Kg	☼	09/20/17 08:40	09/21/17 13:03	1
Carbon disulfide	<5.5		5.5	1.2	ug/Kg	☼	09/20/17 08:40	09/21/17 13:03	1
Carbon tetrachloride	<2.2		2.2	0.64	ug/Kg	☼	09/20/17 08:40	09/21/17 13:03	1
Chlorobenzene	<2.2		2.2	0.82	ug/Kg	☼	09/20/17 08:40	09/21/17 13:03	1
Chloroethane	<5.5 *		5.5	1.6	ug/Kg	☼	09/20/17 08:40	09/21/17 13:03	1
Chloroform	<2.2		2.2	0.77	ug/Kg	☼	09/20/17 08:40	09/21/17 13:03	1
Chloromethane	<5.5		5.5	2.2	ug/Kg	☼	09/20/17 08:40	09/21/17 13:03	1
cis-1,2-Dichloroethene	<2.2		2.2	0.62	ug/Kg	☼	09/20/17 08:40	09/21/17 13:03	1
cis-1,3-Dichloropropene	<2.2		2.2	0.67	ug/Kg	☼	09/20/17 08:40	09/21/17 13:03	1
Dibromochloromethane	<2.2		2.2	0.72	ug/Kg	☼	09/20/17 08:40	09/21/17 13:03	1
1,1-Dichloroethane	<2.2		2.2	0.76	ug/Kg	☼	09/20/17 08:40	09/21/17 13:03	1
1,2-Dichloroethane	<5.5		5.5	1.7	ug/Kg	☼	09/20/17 08:40	09/21/17 13:03	1
1,1-Dichloroethene	<2.2		2.2	0.76	ug/Kg	☼	09/20/17 08:40	09/21/17 13:03	1
1,2-Dichloropropane	<2.2		2.2	0.57	ug/Kg	☼	09/20/17 08:40	09/21/17 13:03	1
1,3-Dichloropropene, Total	<2.2		2.2	0.78	ug/Kg	☼	09/20/17 08:40	09/21/17 13:03	1
Ethylbenzene	<2.2		2.2	1.1	ug/Kg	☼	09/20/17 08:40	09/21/17 13:03	1
2-Hexanone	<5.5		5.5	1.7	ug/Kg	☼	09/20/17 08:40	09/21/17 13:03	1
Methylene Chloride	<5.5		5.5	2.2	ug/Kg	☼	09/20/17 08:40	09/21/17 13:03	1
Methyl Ethyl Ketone	<5.5		5.5	2.5	ug/Kg	☼	09/20/17 08:40	09/21/17 13:03	1
methyl isobutyl ketone	<5.5		5.5	1.6	ug/Kg	☼	09/20/17 08:40	09/21/17 13:03	1
Methyl tert-butyl ether	<2.2		2.2	0.65	ug/Kg	☼	09/20/17 08:40	09/21/17 13:03	1
Styrene	<2.2		2.2	0.67	ug/Kg	☼	09/20/17 08:40	09/21/17 13:03	1
1,1,2,2-Tetrachloroethane	<2.2		2.2	0.71	ug/Kg	☼	09/20/17 08:40	09/21/17 13:03	1
Tetrachloroethene	<2.2		2.2	0.75	ug/Kg	☼	09/20/17 08:40	09/21/17 13:03	1
Toluene	<2.2		2.2	0.56	ug/Kg	☼	09/20/17 08:40	09/21/17 13:03	1
trans-1,2-Dichloroethene	<2.2		2.2	0.98	ug/Kg	☼	09/20/17 08:40	09/21/17 13:03	1
trans-1,3-Dichloropropene	<2.2		2.2	0.78	ug/Kg	☼	09/20/17 08:40	09/21/17 13:03	1
1,1,1-Trichloroethane	<2.2		2.2	0.74	ug/Kg	☼	09/20/17 08:40	09/21/17 13:03	1
1,1,2-Trichloroethane	<2.2		2.2	0.95	ug/Kg	☼	09/20/17 08:40	09/21/17 13:03	1
Trichloroethene	<2.2		2.2	0.75	ug/Kg	☼	09/20/17 08:40	09/21/17 13:03	1
Vinyl chloride	<2.2		2.2	0.98	ug/Kg	☼	09/20/17 08:40	09/21/17 13:03	1
Xylenes, Total	<4.4		4.4	0.71	ug/Kg	☼	09/20/17 08:40	09/21/17 13:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		75 - 131	09/20/17 08:40	09/21/17 13:03	1
Dibromofluoromethane	99		75 - 126	09/20/17 08:40	09/21/17 13:03	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	09/20/17 08:40	09/21/17 13:03	1
Toluene-d8 (Surr)	100		75 - 124	09/20/17 08:40	09/21/17 13:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<200		200	44	ug/Kg	☼	09/25/17 07:28	09/26/17 16:57	1
1,2-Dichlorobenzene	<200		200	49	ug/Kg	☼	09/25/17 07:28	09/26/17 16:57	1
1,3-Dichlorobenzene	<200		200	46	ug/Kg	☼	09/25/17 07:28	09/26/17 16:57	1
1,4-Dichlorobenzene	<200		200	52	ug/Kg	☼	09/25/17 07:28	09/26/17 16:57	1
2,2'-oxybis[1-chloropropane]	<200		200	47	ug/Kg	☼	09/25/17 07:28	09/26/17 16:57	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134251-1

Client Sample ID: FH-2(12-18)-091917

Lab Sample ID: 500-134251-4

Date Collected: 09/19/17 09:10

Matrix: Solid

Date Received: 09/19/17 16:45

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	<400		400	93	ug/Kg	☼	09/25/17 07:28	09/26/17 16:57	1
2,4,6-Trichlorophenol	<400		400	140	ug/Kg	☼	09/25/17 07:28	09/26/17 16:57	1
2,4-Dichlorophenol	<400		400	97	ug/Kg	☼	09/25/17 07:28	09/26/17 16:57	1
2,4-Dimethylphenol	<400		400	150	ug/Kg	☼	09/25/17 07:28	09/26/17 16:57	1
2,4-Dinitrophenol	<820	*	820	720	ug/Kg	☼	09/25/17 07:28	09/26/17 16:57	1
2,4-Dinitrotoluene	<200		200	65	ug/Kg	☼	09/25/17 07:28	09/26/17 16:57	1
2,6-Dinitrotoluene	<200		200	80	ug/Kg	☼	09/25/17 07:28	09/26/17 16:57	1
2-Chloronaphthalene	<200		200	45	ug/Kg	☼	09/25/17 07:28	09/26/17 16:57	1
2-Chlorophenol	<200		200	69	ug/Kg	☼	09/25/17 07:28	09/26/17 16:57	1
2-Methylnaphthalene	<82		82	7.5	ug/Kg	☼	09/25/17 07:28	09/26/17 16:57	1
2-Methylphenol	<200		200	65	ug/Kg	☼	09/25/17 07:28	09/26/17 16:57	1
2-Nitroaniline	<200		200	55	ug/Kg	☼	09/25/17 07:28	09/26/17 16:57	1
2-Nitrophenol	<400		400	96	ug/Kg	☼	09/25/17 07:28	09/26/17 16:57	1
3 & 4 Methylphenol	<200		200	68	ug/Kg	☼	09/25/17 07:28	09/26/17 16:57	1
3,3'-Dichlorobenzidine	<200		200	57	ug/Kg	☼	09/25/17 07:28	09/26/17 16:57	1
3-Nitroaniline	<400		400	130	ug/Kg	☼	09/25/17 07:28	09/26/17 16:57	1
4,6-Dinitro-2-methylphenol	<820		820	330	ug/Kg	☼	09/25/17 07:28	09/26/17 16:57	1
4-Bromophenyl phenyl ether	<200		200	54	ug/Kg	☼	09/25/17 07:28	09/26/17 16:57	1
4-Chloro-3-methylphenol	<400		400	140	ug/Kg	☼	09/25/17 07:28	09/26/17 16:57	1
4-Chloroaniline	<820		820	190	ug/Kg	☼	09/25/17 07:28	09/26/17 16:57	1
4-Chlorophenyl phenyl ether	<200		200	47	ug/Kg	☼	09/25/17 07:28	09/26/17 16:57	1
4-Nitroaniline	<400		400	170	ug/Kg	☼	09/25/17 07:28	09/26/17 16:57	1
4-Nitrophenol	<820		820	390	ug/Kg	☼	09/25/17 07:28	09/26/17 16:57	1
Acenaphthene	13	J	40	7.3	ug/Kg	☼	09/25/17 07:28	09/26/17 16:57	1
Acenaphthylene	6.5	J	40	5.4	ug/Kg	☼	09/25/17 07:28	09/26/17 16:57	1
Anthracene	75		40	6.8	ug/Kg	☼	09/25/17 07:28	09/26/17 16:57	1
Benzo[a]anthracene	150		40	5.5	ug/Kg	☼	09/25/17 07:28	09/26/17 16:57	1
Benzo[a]pyrene	140		40	7.9	ug/Kg	☼	09/25/17 07:28	09/26/17 16:57	1
Benzo[b]fluoranthene	190		40	8.8	ug/Kg	☼	09/25/17 07:28	09/26/17 16:57	1
Benzo[g,h,i]perylene	54		40	13	ug/Kg	☼	09/25/17 07:28	09/26/17 16:57	1
Benzo[k]fluoranthene	92		40	12	ug/Kg	☼	09/25/17 07:28	09/26/17 16:57	1
Bis(2-chloroethoxy)methane	<200		200	41	ug/Kg	☼	09/25/17 07:28	09/26/17 16:57	1
Bis(2-chloroethyl)ether	<200		200	61	ug/Kg	☼	09/25/17 07:28	09/26/17 16:57	1
Bis(2-ethylhexyl) phthalate	<200		200	74	ug/Kg	☼	09/25/17 07:28	09/26/17 16:57	1
Butyl benzyl phthalate	<200		200	77	ug/Kg	☼	09/25/17 07:28	09/26/17 16:57	1
Carbazole	<200		200	100	ug/Kg	☼	09/25/17 07:28	09/26/17 16:57	1
Chrysene	150		40	11	ug/Kg	☼	09/25/17 07:28	09/26/17 16:57	1
Dibenz(a,h)anthracene	22	J	40	7.9	ug/Kg	☼	09/25/17 07:28	09/26/17 16:57	1
Dibenzofuran	<200		200	48	ug/Kg	☼	09/25/17 07:28	09/26/17 16:57	1
Diethyl phthalate	<200		200	69	ug/Kg	☼	09/25/17 07:28	09/26/17 16:57	1
Dimethyl phthalate	<200		200	53	ug/Kg	☼	09/25/17 07:28	09/26/17 16:57	1
Di-n-butyl phthalate	<200		200	62	ug/Kg	☼	09/25/17 07:28	09/26/17 16:57	1
Di-n-octyl phthalate	<200		200	66	ug/Kg	☼	09/25/17 07:28	09/26/17 16:57	1
Fluoranthene	330		40	7.5	ug/Kg	☼	09/25/17 07:28	09/26/17 16:57	1
Fluorene	32	J	40	5.7	ug/Kg	☼	09/25/17 07:28	09/26/17 16:57	1
Hexachlorobenzene	<82		82	9.4	ug/Kg	☼	09/25/17 07:28	09/26/17 16:57	1
Hexachlorobutadiene	<200		200	64	ug/Kg	☼	09/25/17 07:28	09/26/17 16:57	1
Hexachlorocyclopentadiene	<820		820	230	ug/Kg	☼	09/25/17 07:28	09/26/17 16:57	1
Hexachloroethane	<200		200	62	ug/Kg	☼	09/25/17 07:28	09/26/17 16:57	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134251-1

Client Sample ID: FH-2(12-18)-091917

Lab Sample ID: 500-134251-4

Date Collected: 09/19/17 09:10

Matrix: Solid

Date Received: 09/19/17 16:45

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	59		40	11	ug/Kg	☼	09/25/17 07:28	09/26/17 16:57	1
Isophorone	<200		200	46	ug/Kg	☼	09/25/17 07:28	09/26/17 16:57	1
Naphthalene	<40		40	6.3	ug/Kg	☼	09/25/17 07:28	09/26/17 16:57	1
Nitrobenzene	<40		40	10	ug/Kg	☼	09/25/17 07:28	09/26/17 16:57	1
N-Nitrosodi-n-propylamine	<82		82	50	ug/Kg	☼	09/25/17 07:28	09/26/17 16:57	1
N-Nitrosodiphenylamine	<200		200	48	ug/Kg	☼	09/25/17 07:28	09/26/17 16:57	1
Pentachlorophenol	<820		820	650	ug/Kg	☼	09/25/17 07:28	09/26/17 16:57	1
Phenanthrene	260		40	5.7	ug/Kg	☼	09/25/17 07:28	09/26/17 16:57	1
Phenol	<200		200	90	ug/Kg	☼	09/25/17 07:28	09/26/17 16:57	1
Pyrene	270		40	8.1	ug/Kg	☼	09/25/17 07:28	09/26/17 16:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	68		25 - 139				09/25/17 07:28	09/26/17 16:57	1
2-Fluorobiphenyl	68		44 - 121				09/25/17 07:28	09/26/17 16:57	1
2-Fluorophenol	86		46 - 133				09/25/17 07:28	09/26/17 16:57	1
Nitrobenzene-d5	72		41 - 120				09/25/17 07:28	09/26/17 16:57	1
Phenol-d5	71		46 - 125				09/25/17 07:28	09/26/17 16:57	1
Terphenyl-d14	73		35 - 160				09/25/17 07:28	09/26/17 16:57	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		09/22/17 14:46	09/25/17 18:33	1
Barium	0.28	J	0.50	0.050	mg/L		09/22/17 14:46	09/25/17 18:33	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/22/17 14:46	09/25/17 18:33	1
Cadmium	0.0028	J	0.0050	0.0020	mg/L		09/22/17 14:46	09/25/17 18:33	1
Chromium	<0.025		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 18:33	1
Cobalt	<0.025		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 18:33	1
Copper	<0.025		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 18:33	1
Iron	<0.40		0.40	0.20	mg/L		09/22/17 14:46	09/25/17 18:33	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/22/17 14:46	09/25/17 18:33	1
Manganese	0.59		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 18:33	1
Nickel	0.013	J	0.025	0.010	mg/L		09/22/17 14:46	09/25/17 18:33	1
Selenium	<0.050		0.050	0.020	mg/L		09/22/17 14:46	09/25/17 18:33	1
Silver	<0.025		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 18:33	1
Zinc	<0.50		0.50	0.020	mg/L		09/22/17 14:46	09/25/17 18:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/21/17 16:28	09/25/17 12:17	1
Barium	0.15	J	0.50	0.050	mg/L		09/21/17 16:28	09/25/17 12:17	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/21/17 16:28	09/25/17 12:17	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/21/17 16:28	09/25/17 12:17	1
Chromium	0.014	J	0.025	0.010	mg/L		09/21/17 16:28	09/25/17 12:17	1
Cobalt	<0.025		0.025	0.010	mg/L		09/21/17 16:28	09/25/17 12:17	1
Copper	0.073		0.025	0.010	mg/L		09/21/17 16:28	09/25/17 12:17	1
Iron	7.9		0.40	0.20	mg/L		09/21/17 16:28	09/25/17 12:17	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/21/17 16:28	09/25/17 12:17	1
Manganese	0.039		0.025	0.010	mg/L		09/21/17 16:28	09/25/17 12:17	1
Nickel	0.011	J	0.025	0.010	mg/L		09/21/17 16:28	09/25/17 12:17	1
Selenium	<0.050		0.050	0.020	mg/L		09/21/17 16:28	09/25/17 12:17	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134251-1

Client Sample ID: FH-2(12-18)-091917

Lab Sample ID: 500-134251-4

Date Collected: 09/19/17 09:10

Matrix: Solid

Date Received: 09/19/17 16:45

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		09/21/17 16:28	09/25/17 12:17	1
Zinc	0.17	J	0.50	0.020	mg/L		09/21/17 16:28	09/25/17 12:17	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	☼	09/20/17 17:04	09/21/17 14:40	1
Arsenic	12		0.61	0.21	mg/Kg	☼	09/20/17 17:04	09/21/17 14:40	1
Barium	110		0.61	0.070	mg/Kg	☼	09/20/17 17:04	09/21/17 14:40	1
Beryllium	0.69		0.25	0.057	mg/Kg	☼	09/20/17 17:04	09/21/17 14:40	1
Cadmium	0.31		0.12	0.022	mg/Kg	☼	09/20/17 17:04	09/21/17 14:40	1
Calcium	13000	B	12	2.1	mg/Kg	☼	09/20/17 17:04	09/21/17 14:40	1
Chromium	19		0.61	0.30	mg/Kg	☼	09/20/17 17:04	09/21/17 14:40	1
Cobalt	26		0.31	0.080	mg/Kg	☼	09/20/17 17:04	09/21/17 14:40	1
Copper	29	B	0.61	0.17	mg/Kg	☼	09/20/17 17:04	09/21/17 14:40	1
Iron	24000	B	12	6.4	mg/Kg	☼	09/20/17 17:04	09/21/17 14:40	1
Lead	22		0.31	0.14	mg/Kg	☼	09/20/17 17:04	09/21/17 14:40	1
Magnesium	10000	B	6.1	3.0	mg/Kg	☼	09/20/17 17:04	09/21/17 14:40	1
Manganese	990	B	0.61	0.089	mg/Kg	☼	09/20/17 17:04	09/21/17 14:40	1
Nickel	45		0.61	0.18	mg/Kg	☼	09/20/17 17:04	09/21/17 14:40	1
Potassium	2200		31	11	mg/Kg	☼	09/20/17 17:04	09/21/17 14:40	1
Selenium	<0.61		0.61	0.36	mg/Kg	☼	09/20/17 17:04	09/21/17 14:40	1
Silver	<0.31		0.31	0.079	mg/Kg	☼	09/20/17 17:04	09/21/17 14:40	1
Sodium	100		61	9.1	mg/Kg	☼	09/20/17 17:04	09/21/17 14:40	1
Thallium	<0.61		0.61	0.31	mg/Kg	☼	09/20/17 17:04	09/21/17 14:40	1
Vanadium	25		0.31	0.072	mg/Kg	☼	09/20/17 17:04	09/21/17 14:40	1
Zinc	72	B	1.2	0.54	mg/Kg	☼	09/20/17 17:04	09/21/17 14:40	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		09/22/17 11:15	09/25/17 09:08	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		09/21/17 12:42	09/22/17 11:27	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	44	B	20	6.7	ug/Kg	☼	09/22/17 16:20	09/25/17 12:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.2		0.20	0.20	SU			09/22/17 14:38	1

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134251-1

Client Sample ID: FH-4(0-6)-091917

Lab Sample ID: 500-134251-5

Date Collected: 09/19/17 09:48

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	22		20	8.5	ug/Kg	☼	09/20/17 08:40	09/21/17 13:28	1
Benzene	<2.0		2.0	0.50	ug/Kg	☼	09/20/17 08:40	09/21/17 13:28	1
Bromodichloromethane	<2.0		2.0	0.40	ug/Kg	☼	09/20/17 08:40	09/21/17 13:28	1
Bromoform	<2.0		2.0	0.57	ug/Kg	☼	09/20/17 08:40	09/21/17 13:28	1
Bromomethane	<4.9		4.9	1.9	ug/Kg	☼	09/20/17 08:40	09/21/17 13:28	1
Carbon disulfide	<4.9		4.9	1.0	ug/Kg	☼	09/20/17 08:40	09/21/17 13:28	1
Carbon tetrachloride	<2.0		2.0	0.57	ug/Kg	☼	09/20/17 08:40	09/21/17 13:28	1
Chlorobenzene	<2.0		2.0	0.72	ug/Kg	☼	09/20/17 08:40	09/21/17 13:28	1
Chloroethane	<4.9 *		4.9	1.4	ug/Kg	☼	09/20/17 08:40	09/21/17 13:28	1
Chloroform	<2.0		2.0	0.68	ug/Kg	☼	09/20/17 08:40	09/21/17 13:28	1
Chloromethane	<4.9		4.9	2.0	ug/Kg	☼	09/20/17 08:40	09/21/17 13:28	1
cis-1,2-Dichloroethene	<2.0		2.0	0.55	ug/Kg	☼	09/20/17 08:40	09/21/17 13:28	1
cis-1,3-Dichloropropene	<2.0		2.0	0.59	ug/Kg	☼	09/20/17 08:40	09/21/17 13:28	1
Dibromochloromethane	<2.0		2.0	0.64	ug/Kg	☼	09/20/17 08:40	09/21/17 13:28	1
1,1-Dichloroethane	<2.0		2.0	0.67	ug/Kg	☼	09/20/17 08:40	09/21/17 13:28	1
1,2-Dichloroethane	<4.9		4.9	1.5	ug/Kg	☼	09/20/17 08:40	09/21/17 13:28	1
1,1-Dichloroethene	<2.0		2.0	0.67	ug/Kg	☼	09/20/17 08:40	09/21/17 13:28	1
1,2-Dichloropropane	<2.0		2.0	0.51	ug/Kg	☼	09/20/17 08:40	09/21/17 13:28	1
1,3-Dichloropropene, Total	<2.0		2.0	0.69	ug/Kg	☼	09/20/17 08:40	09/21/17 13:28	1
Ethylbenzene	<2.0		2.0	0.94	ug/Kg	☼	09/20/17 08:40	09/21/17 13:28	1
2-Hexanone	<4.9		4.9	1.5	ug/Kg	☼	09/20/17 08:40	09/21/17 13:28	1
Methylene Chloride	<4.9		4.9	1.9	ug/Kg	☼	09/20/17 08:40	09/21/17 13:28	1
Methyl Ethyl Ketone	<4.9		4.9	2.2	ug/Kg	☼	09/20/17 08:40	09/21/17 13:28	1
methyl isobutyl ketone	<4.9		4.9	1.4	ug/Kg	☼	09/20/17 08:40	09/21/17 13:28	1
Methyl tert-butyl ether	<2.0		2.0	0.58	ug/Kg	☼	09/20/17 08:40	09/21/17 13:28	1
Styrene	<2.0		2.0	0.59	ug/Kg	☼	09/20/17 08:40	09/21/17 13:28	1
1,1,2,2-Tetrachloroethane	<2.0		2.0	0.63	ug/Kg	☼	09/20/17 08:40	09/21/17 13:28	1
Tetrachloroethene	<2.0		2.0	0.67	ug/Kg	☼	09/20/17 08:40	09/21/17 13:28	1
Toluene	<2.0		2.0	0.49	ug/Kg	☼	09/20/17 08:40	09/21/17 13:28	1
trans-1,2-Dichloroethene	<2.0		2.0	0.87	ug/Kg	☼	09/20/17 08:40	09/21/17 13:28	1
trans-1,3-Dichloropropene	<2.0		2.0	0.69	ug/Kg	☼	09/20/17 08:40	09/21/17 13:28	1
1,1,1-Trichloroethane	<2.0		2.0	0.66	ug/Kg	☼	09/20/17 08:40	09/21/17 13:28	1
1,1,2-Trichloroethane	<2.0		2.0	0.84	ug/Kg	☼	09/20/17 08:40	09/21/17 13:28	1
Trichloroethene	<2.0		2.0	0.66	ug/Kg	☼	09/20/17 08:40	09/21/17 13:28	1
Vinyl chloride	<2.0		2.0	0.87	ug/Kg	☼	09/20/17 08:40	09/21/17 13:28	1
Xylenes, Total	<3.9		3.9	0.63	ug/Kg	☼	09/20/17 08:40	09/21/17 13:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		75 - 131	09/20/17 08:40	09/21/17 13:28	1
Dibromofluoromethane	104		75 - 126	09/20/17 08:40	09/21/17 13:28	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134	09/20/17 08:40	09/21/17 13:28	1
Toluene-d8 (Surr)	103		75 - 124	09/20/17 08:40	09/21/17 13:28	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	☼	09/25/17 07:28	09/26/17 17:21	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	09/25/17 07:28	09/26/17 17:21	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	09/25/17 07:28	09/26/17 17:21	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	09/25/17 07:28	09/26/17 17:21	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	09/25/17 07:28	09/26/17 17:21	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134251-1

Client Sample ID: FH-4(0-6)-091917

Lab Sample ID: 500-134251-5

Date Collected: 09/19/17 09:48

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<380		380	87	ug/Kg	☼	09/25/17 07:28	09/26/17 17:21	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	09/25/17 07:28	09/26/17 17:21	1
2,4-Dichlorophenol	<380		380	91	ug/Kg	☼	09/25/17 07:28	09/26/17 17:21	1
2,4-Dimethylphenol	<380		380	140	ug/Kg	☼	09/25/17 07:28	09/26/17 17:21	1
2,4-Dinitrophenol	<770	*	770	670	ug/Kg	☼	09/25/17 07:28	09/26/17 17:21	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	09/25/17 07:28	09/26/17 17:21	1
2,6-Dinitrotoluene	<190		190	75	ug/Kg	☼	09/25/17 07:28	09/26/17 17:21	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	09/25/17 07:28	09/26/17 17:21	1
2-Chlorophenol	<190		190	65	ug/Kg	☼	09/25/17 07:28	09/26/17 17:21	1
2-Methylnaphthalene	<77		77	7.0	ug/Kg	☼	09/25/17 07:28	09/26/17 17:21	1
2-Methylphenol	<190		190	61	ug/Kg	☼	09/25/17 07:28	09/26/17 17:21	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	09/25/17 07:28	09/26/17 17:21	1
2-Nitrophenol	<380		380	90	ug/Kg	☼	09/25/17 07:28	09/26/17 17:21	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	☼	09/25/17 07:28	09/26/17 17:21	1
3,3'-Dichlorobenzidine	<190		190	54	ug/Kg	☼	09/25/17 07:28	09/26/17 17:21	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	09/25/17 07:28	09/26/17 17:21	1
4,6-Dinitro-2-methylphenol	<770		770	310	ug/Kg	☼	09/25/17 07:28	09/26/17 17:21	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	09/25/17 07:28	09/26/17 17:21	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	09/25/17 07:28	09/26/17 17:21	1
4-Chloroaniline	<770		770	180	ug/Kg	☼	09/25/17 07:28	09/26/17 17:21	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	09/25/17 07:28	09/26/17 17:21	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	09/25/17 07:28	09/26/17 17:21	1
4-Nitrophenol	<770		770	360	ug/Kg	☼	09/25/17 07:28	09/26/17 17:21	1
Acenaphthene	11	J	38	6.9	ug/Kg	☼	09/25/17 07:28	09/26/17 17:21	1
Acenaphthylene	<38		38	5.0	ug/Kg	☼	09/25/17 07:28	09/26/17 17:21	1
Anthracene	37	J	38	6.4	ug/Kg	☼	09/25/17 07:28	09/26/17 17:21	1
Benzo[a]anthracene	120		38	5.1	ug/Kg	☼	09/25/17 07:28	09/26/17 17:21	1
Benzo[a]pyrene	120		38	7.4	ug/Kg	☼	09/25/17 07:28	09/26/17 17:21	1
Benzo[b]fluoranthene	180		38	8.2	ug/Kg	☼	09/25/17 07:28	09/26/17 17:21	1
Benzo[g,h,i]perylene	51		38	12	ug/Kg	☼	09/25/17 07:28	09/26/17 17:21	1
Benzo[k]fluoranthene	82		38	11	ug/Kg	☼	09/25/17 07:28	09/26/17 17:21	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	09/25/17 07:28	09/26/17 17:21	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	09/25/17 07:28	09/26/17 17:21	1
Bis(2-ethylhexyl) phthalate	<190		190	70	ug/Kg	☼	09/25/17 07:28	09/26/17 17:21	1
Butyl benzyl phthalate	<190		190	73	ug/Kg	☼	09/25/17 07:28	09/26/17 17:21	1
Carbazole	<190		190	95	ug/Kg	☼	09/25/17 07:28	09/26/17 17:21	1
Chrysene	150		38	10	ug/Kg	☼	09/25/17 07:28	09/26/17 17:21	1
Dibenz(a,h)anthracene	19	J	38	7.4	ug/Kg	☼	09/25/17 07:28	09/26/17 17:21	1
Dibenzofuran	<190		190	45	ug/Kg	☼	09/25/17 07:28	09/26/17 17:21	1
Diethyl phthalate	<190		190	65	ug/Kg	☼	09/25/17 07:28	09/26/17 17:21	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	09/25/17 07:28	09/26/17 17:21	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	09/25/17 07:28	09/26/17 17:21	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	09/25/17 07:28	09/26/17 17:21	1
Fluoranthene	310		38	7.1	ug/Kg	☼	09/25/17 07:28	09/26/17 17:21	1
Fluorene	11	J	38	5.4	ug/Kg	☼	09/25/17 07:28	09/26/17 17:21	1
Hexachlorobenzene	<77		77	8.9	ug/Kg	☼	09/25/17 07:28	09/26/17 17:21	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	09/25/17 07:28	09/26/17 17:21	1
Hexachlorocyclopentadiene	<770		770	220	ug/Kg	☼	09/25/17 07:28	09/26/17 17:21	1
Hexachloroethane	<190		190	58	ug/Kg	☼	09/25/17 07:28	09/26/17 17:21	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134251-1

Client Sample ID: FH-4(0-6)-091917

Lab Sample ID: 500-134251-5

Date Collected: 09/19/17 09:48

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	56		38	9.9	ug/Kg	☼	09/25/17 07:28	09/26/17 17:21	1
Isophorone	<190		190	43	ug/Kg	☼	09/25/17 07:28	09/26/17 17:21	1
Naphthalene	<38		38	5.9	ug/Kg	☼	09/25/17 07:28	09/26/17 17:21	1
Nitrobenzene	<38		38	9.5	ug/Kg	☼	09/25/17 07:28	09/26/17 17:21	1
N-Nitrosodi-n-propylamine	<77		77	47	ug/Kg	☼	09/25/17 07:28	09/26/17 17:21	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	09/25/17 07:28	09/26/17 17:21	1
Pentachlorophenol	<770		770	610	ug/Kg	☼	09/25/17 07:28	09/26/17 17:21	1
Phenanthrene	160		38	5.3	ug/Kg	☼	09/25/17 07:28	09/26/17 17:21	1
Phenol	<190		190	85	ug/Kg	☼	09/25/17 07:28	09/26/17 17:21	1
Pyrene	240		38	7.6	ug/Kg	☼	09/25/17 07:28	09/26/17 17:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	84		25 - 139				09/25/17 07:28	09/26/17 17:21	1
2-Fluorobiphenyl	83		44 - 121				09/25/17 07:28	09/26/17 17:21	1
2-Fluorophenol	116		46 - 133				09/25/17 07:28	09/26/17 17:21	1
Nitrobenzene-d5	80		41 - 120				09/25/17 07:28	09/26/17 17:21	1
Phenol-d5	95		46 - 125				09/25/17 07:28	09/26/17 17:21	1
Terphenyl-d14	92		35 - 160				09/25/17 07:28	09/26/17 17:21	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/22/17 14:46	09/25/17 18:37	1
Barium	0.33	J	0.50	0.050	mg/L		09/22/17 14:46	09/25/17 18:37	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/22/17 14:46	09/25/17 18:37	1
Cadmium	0.0030	J	0.0050	0.0020	mg/L		09/22/17 14:46	09/25/17 18:37	1
Chromium	<0.025		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 18:37	1
Cobalt	0.023	J	0.025	0.010	mg/L		09/22/17 14:46	09/25/17 18:37	1
Copper	<0.025		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 18:37	1
Iron	<0.40		0.40	0.20	mg/L		09/22/17 14:46	09/25/17 18:37	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/22/17 14:46	09/25/17 18:37	1
Manganese	6.4		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 18:37	1
Nickel	0.032		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 18:37	1
Selenium	<0.050		0.050	0.020	mg/L		09/22/17 14:46	09/25/17 18:37	1
Silver	<0.025		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 18:37	1
Zinc	0.024	J	0.50	0.020	mg/L		09/22/17 14:46	09/25/17 18:37	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		09/21/17 16:28	09/25/17 12:21	1
Barium	0.14	J	0.50	0.050	mg/L		09/21/17 16:28	09/25/17 12:21	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/21/17 16:28	09/25/17 12:21	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/21/17 16:28	09/25/17 12:21	1
Chromium	0.013	J	0.025	0.010	mg/L		09/21/17 16:28	09/25/17 12:21	1
Cobalt	<0.025		0.025	0.010	mg/L		09/21/17 16:28	09/25/17 12:21	1
Copper	0.019	J	0.025	0.010	mg/L		09/21/17 16:28	09/25/17 12:21	1
Iron	9.4		0.40	0.20	mg/L		09/21/17 16:28	09/25/17 12:21	1
Lead	0.0091		0.0075	0.0075	mg/L		09/21/17 16:28	09/25/17 12:21	1
Manganese	0.21		0.025	0.010	mg/L		09/21/17 16:28	09/25/17 12:21	1
Nickel	0.012	J	0.025	0.010	mg/L		09/21/17 16:28	09/25/17 12:21	1
Selenium	<0.050		0.050	0.020	mg/L		09/21/17 16:28	09/25/17 12:21	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134251-1

Client Sample ID: FH-4(0-6)-091917

Lab Sample ID: 500-134251-5

Date Collected: 09/19/17 09:48

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 85.0

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		09/21/17 16:28	09/25/17 12:21	1
Zinc	0.066	J	0.50	0.020	mg/L		09/21/17 16:28	09/25/17 12:21	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	☼	09/20/17 17:04	09/21/17 14:44	1
Arsenic	8.3		0.57	0.20	mg/Kg	☼	09/20/17 17:04	09/21/17 14:44	1
Barium	54		0.57	0.065	mg/Kg	☼	09/20/17 17:04	09/21/17 14:44	1
Beryllium	0.59		0.23	0.053	mg/Kg	☼	09/20/17 17:04	09/21/17 14:44	1
Cadmium	0.20		0.11	0.021	mg/Kg	☼	09/20/17 17:04	09/21/17 14:44	1
Calcium	12000	B	11	1.9	mg/Kg	☼	09/20/17 17:04	09/21/17 14:44	1
Chromium	15		0.57	0.28	mg/Kg	☼	09/20/17 17:04	09/21/17 14:44	1
Cobalt	12		0.29	0.075	mg/Kg	☼	09/20/17 17:04	09/21/17 14:44	1
Copper	25	B	0.57	0.16	mg/Kg	☼	09/20/17 17:04	09/21/17 14:44	1
Iron	18000	B	11	5.9	mg/Kg	☼	09/20/17 17:04	09/21/17 14:44	1
Lead	23		0.29	0.13	mg/Kg	☼	09/20/17 17:04	09/21/17 14:44	1
Magnesium	9100	B	5.7	2.8	mg/Kg	☼	09/20/17 17:04	09/21/17 14:44	1
Manganese	340	B	0.57	0.083	mg/Kg	☼	09/20/17 17:04	09/21/17 14:44	1
Nickel	30		0.57	0.17	mg/Kg	☼	09/20/17 17:04	09/21/17 14:44	1
Potassium	1800		29	10	mg/Kg	☼	09/20/17 17:04	09/21/17 14:44	1
Selenium	<0.57		0.57	0.34	mg/Kg	☼	09/20/17 17:04	09/21/17 14:44	1
Silver	<0.29		0.29	0.074	mg/Kg	☼	09/20/17 17:04	09/21/17 14:44	1
Sodium	84		57	8.4	mg/Kg	☼	09/20/17 17:04	09/21/17 14:44	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	09/20/17 17:04	09/21/17 14:44	1
Vanadium	20		0.29	0.067	mg/Kg	☼	09/20/17 17:04	09/21/17 14:44	1
Zinc	57	B	1.1	0.50	mg/Kg	☼	09/20/17 17:04	09/21/17 14:44	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		09/22/17 11:15	09/25/17 09:10	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		09/21/17 12:42	09/22/17 11:29	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	57	B	18	6.0	ug/Kg	☼	09/22/17 16:20	09/25/17 13:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.1		0.20	0.20	SU			09/22/17 14:42	1

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134251-1

Client Sample ID: FH-4(6-12)-091917

Lab Sample ID: 500-134251-6

Date Collected: 09/19/17 09:57

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 83.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	26		18	7.7	ug/Kg	☼	09/20/17 08:40	09/21/17 13:53	1
Benzene	<1.8		1.8	0.45	ug/Kg	☼	09/20/17 08:40	09/21/17 13:53	1
Bromodichloromethane	<1.8		1.8	0.36	ug/Kg	☼	09/20/17 08:40	09/21/17 13:53	1
Bromoform	<1.8		1.8	0.52	ug/Kg	☼	09/20/17 08:40	09/21/17 13:53	1
Bromomethane	<4.4		4.4	1.7	ug/Kg	☼	09/20/17 08:40	09/21/17 13:53	1
Carbon disulfide	<4.4		4.4	0.92	ug/Kg	☼	09/20/17 08:40	09/21/17 13:53	1
Carbon tetrachloride	<1.8		1.8	0.51	ug/Kg	☼	09/20/17 08:40	09/21/17 13:53	1
Chlorobenzene	<1.8		1.8	0.65	ug/Kg	☼	09/20/17 08:40	09/21/17 13:53	1
Chloroethane	<4.4 *		4.4	1.3	ug/Kg	☼	09/20/17 08:40	09/21/17 13:53	1
Chloroform	<1.8		1.8	0.62	ug/Kg	☼	09/20/17 08:40	09/21/17 13:53	1
Chloromethane	<4.4		4.4	1.8	ug/Kg	☼	09/20/17 08:40	09/21/17 13:53	1
cis-1,2-Dichloroethene	<1.8		1.8	0.50	ug/Kg	☼	09/20/17 08:40	09/21/17 13:53	1
cis-1,3-Dichloropropene	<1.8		1.8	0.53	ug/Kg	☼	09/20/17 08:40	09/21/17 13:53	1
Dibromochloromethane	<1.8		1.8	0.58	ug/Kg	☼	09/20/17 08:40	09/21/17 13:53	1
1,1-Dichloroethane	<1.8		1.8	0.61	ug/Kg	☼	09/20/17 08:40	09/21/17 13:53	1
1,2-Dichloroethane	<4.4		4.4	1.4	ug/Kg	☼	09/20/17 08:40	09/21/17 13:53	1
1,1-Dichloroethene	<1.8		1.8	0.61	ug/Kg	☼	09/20/17 08:40	09/21/17 13:53	1
1,2-Dichloropropane	<1.8		1.8	0.46	ug/Kg	☼	09/20/17 08:40	09/21/17 13:53	1
1,3-Dichloropropene, Total	<1.8		1.8	0.62	ug/Kg	☼	09/20/17 08:40	09/21/17 13:53	1
Ethylbenzene	<1.8		1.8	0.85	ug/Kg	☼	09/20/17 08:40	09/21/17 13:53	1
2-Hexanone	<4.4		4.4	1.4	ug/Kg	☼	09/20/17 08:40	09/21/17 13:53	1
Methylene Chloride	<4.4		4.4	1.7	ug/Kg	☼	09/20/17 08:40	09/21/17 13:53	1
Methyl Ethyl Ketone	<4.4		4.4	2.0	ug/Kg	☼	09/20/17 08:40	09/21/17 13:53	1
methyl isobutyl ketone	<4.4		4.4	1.3	ug/Kg	☼	09/20/17 08:40	09/21/17 13:53	1
Methyl tert-butyl ether	<1.8		1.8	0.52	ug/Kg	☼	09/20/17 08:40	09/21/17 13:53	1
Styrene	<1.8		1.8	0.54	ug/Kg	☼	09/20/17 08:40	09/21/17 13:53	1
1,1,2,2-Tetrachloroethane	<1.8		1.8	0.57	ug/Kg	☼	09/20/17 08:40	09/21/17 13:53	1
Tetrachloroethene	<1.8		1.8	0.60	ug/Kg	☼	09/20/17 08:40	09/21/17 13:53	1
Toluene	<1.8		1.8	0.45	ug/Kg	☼	09/20/17 08:40	09/21/17 13:53	1
trans-1,2-Dichloroethene	<1.8		1.8	0.79	ug/Kg	☼	09/20/17 08:40	09/21/17 13:53	1
trans-1,3-Dichloropropene	<1.8		1.8	0.62	ug/Kg	☼	09/20/17 08:40	09/21/17 13:53	1
1,1,1-Trichloroethane	<1.8		1.8	0.59	ug/Kg	☼	09/20/17 08:40	09/21/17 13:53	1
1,1,2-Trichloroethane	<1.8		1.8	0.76	ug/Kg	☼	09/20/17 08:40	09/21/17 13:53	1
Trichloroethene	<1.8		1.8	0.60	ug/Kg	☼	09/20/17 08:40	09/21/17 13:53	1
Vinyl chloride	<1.8		1.8	0.78	ug/Kg	☼	09/20/17 08:40	09/21/17 13:53	1
Xylenes, Total	<3.5		3.5	0.57	ug/Kg	☼	09/20/17 08:40	09/21/17 13:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		75 - 131	09/20/17 08:40	09/21/17 13:53	1
Dibromofluoromethane	105		75 - 126	09/20/17 08:40	09/21/17 13:53	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134	09/20/17 08:40	09/21/17 13:53	1
Toluene-d8 (Surr)	101		75 - 124	09/20/17 08:40	09/21/17 13:53	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	☼	09/25/17 07:28	09/26/17 17:46	1
1,2-Dichlorobenzene	<200		200	46	ug/Kg	☼	09/25/17 07:28	09/26/17 17:46	1
1,3-Dichlorobenzene	<200		200	44	ug/Kg	☼	09/25/17 07:28	09/26/17 17:46	1
1,4-Dichlorobenzene	<200		200	50	ug/Kg	☼	09/25/17 07:28	09/26/17 17:46	1
2,2'-oxybis[1-chloropropane]	<200		200	45	ug/Kg	☼	09/25/17 07:28	09/26/17 17:46	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134251-1

Client Sample ID: FH-4(6-12)-091917

Lab Sample ID: 500-134251-6

Date Collected: 09/19/17 09:57

Matrix: Solid

Date Received: 09/19/17 16:45

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	<390		390	89	ug/Kg	☼	09/25/17 07:28	09/26/17 17:46	1
2,4,6-Trichlorophenol	<390		390	130	ug/Kg	☼	09/25/17 07:28	09/26/17 17:46	1
2,4-Dichlorophenol	<390		390	92	ug/Kg	☼	09/25/17 07:28	09/26/17 17:46	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	09/25/17 07:28	09/26/17 17:46	1
2,4-Dinitrophenol	<780	*	780	690	ug/Kg	☼	09/25/17 07:28	09/26/17 17:46	1
2,4-Dinitrotoluene	<200		200	62	ug/Kg	☼	09/25/17 07:28	09/26/17 17:46	1
2,6-Dinitrotoluene	<200		200	76	ug/Kg	☼	09/25/17 07:28	09/26/17 17:46	1
2-Chloronaphthalene	<200		200	43	ug/Kg	☼	09/25/17 07:28	09/26/17 17:46	1
2-Chlorophenol	<200		200	66	ug/Kg	☼	09/25/17 07:28	09/26/17 17:46	1
2-Methylnaphthalene	<78		78	7.2	ug/Kg	☼	09/25/17 07:28	09/26/17 17:46	1
2-Methylphenol	<200		200	62	ug/Kg	☼	09/25/17 07:28	09/26/17 17:46	1
2-Nitroaniline	<200		200	52	ug/Kg	☼	09/25/17 07:28	09/26/17 17:46	1
2-Nitrophenol	<390		390	92	ug/Kg	☼	09/25/17 07:28	09/26/17 17:46	1
3 & 4 Methylphenol	<200		200	65	ug/Kg	☼	09/25/17 07:28	09/26/17 17:46	1
3,3'-Dichlorobenzidine	<200		200	54	ug/Kg	☼	09/25/17 07:28	09/26/17 17:46	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	09/25/17 07:28	09/26/17 17:46	1
4,6-Dinitro-2-methylphenol	<780		780	310	ug/Kg	☼	09/25/17 07:28	09/26/17 17:46	1
4-Bromophenyl phenyl ether	<200		200	51	ug/Kg	☼	09/25/17 07:28	09/26/17 17:46	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	09/25/17 07:28	09/26/17 17:46	1
4-Chloroaniline	<780		780	180	ug/Kg	☼	09/25/17 07:28	09/26/17 17:46	1
4-Chlorophenyl phenyl ether	<200		200	45	ug/Kg	☼	09/25/17 07:28	09/26/17 17:46	1
4-Nitroaniline	<390		390	160	ug/Kg	☼	09/25/17 07:28	09/26/17 17:46	1
4-Nitrophenol	<780		780	370	ug/Kg	☼	09/25/17 07:28	09/26/17 17:46	1
Acenaphthene	<39		39	7.0	ug/Kg	☼	09/25/17 07:28	09/26/17 17:46	1
Acenaphthylene	<39		39	5.1	ug/Kg	☼	09/25/17 07:28	09/26/17 17:46	1
Anthracene	16	J	39	6.5	ug/Kg	☼	09/25/17 07:28	09/26/17 17:46	1
Benzo[a]anthracene	57		39	5.2	ug/Kg	☼	09/25/17 07:28	09/26/17 17:46	1
Benzo[a]pyrene	56		39	7.5	ug/Kg	☼	09/25/17 07:28	09/26/17 17:46	1
Benzo[b]fluoranthene	79		39	8.4	ug/Kg	☼	09/25/17 07:28	09/26/17 17:46	1
Benzo[g,h,i]perylene	21	J	39	13	ug/Kg	☼	09/25/17 07:28	09/26/17 17:46	1
Benzo[k]fluoranthene	34	J	39	11	ug/Kg	☼	09/25/17 07:28	09/26/17 17:46	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	☼	09/25/17 07:28	09/26/17 17:46	1
Bis(2-chloroethyl)ether	<200		200	58	ug/Kg	☼	09/25/17 07:28	09/26/17 17:46	1
Bis(2-ethylhexyl) phthalate	<200		200	71	ug/Kg	☼	09/25/17 07:28	09/26/17 17:46	1
Butyl benzyl phthalate	<200		200	74	ug/Kg	☼	09/25/17 07:28	09/26/17 17:46	1
Carbazole	<200		200	97	ug/Kg	☼	09/25/17 07:28	09/26/17 17:46	1
Chrysene	57		39	11	ug/Kg	☼	09/25/17 07:28	09/26/17 17:46	1
Dibenz(a,h)anthracene	11	J	39	7.5	ug/Kg	☼	09/25/17 07:28	09/26/17 17:46	1
Dibenzofuran	<200		200	46	ug/Kg	☼	09/25/17 07:28	09/26/17 17:46	1
Diethyl phthalate	<200		200	66	ug/Kg	☼	09/25/17 07:28	09/26/17 17:46	1
Dimethyl phthalate	<200		200	51	ug/Kg	☼	09/25/17 07:28	09/26/17 17:46	1
Di-n-butyl phthalate	<200		200	59	ug/Kg	☼	09/25/17 07:28	09/26/17 17:46	1
Di-n-octyl phthalate	<200		200	63	ug/Kg	☼	09/25/17 07:28	09/26/17 17:46	1
Fluoranthene	130		39	7.2	ug/Kg	☼	09/25/17 07:28	09/26/17 17:46	1
Fluorene	<39		39	5.5	ug/Kg	☼	09/25/17 07:28	09/26/17 17:46	1
Hexachlorobenzene	<78		78	9.0	ug/Kg	☼	09/25/17 07:28	09/26/17 17:46	1
Hexachlorobutadiene	<200		200	61	ug/Kg	☼	09/25/17 07:28	09/26/17 17:46	1
Hexachlorocyclopentadiene	<780		780	220	ug/Kg	☼	09/25/17 07:28	09/26/17 17:46	1
Hexachloroethane	<200		200	59	ug/Kg	☼	09/25/17 07:28	09/26/17 17:46	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134251-1

Client Sample ID: FH-4(6-12)-091917

Lab Sample ID: 500-134251-6

Date Collected: 09/19/17 09:57

Matrix: Solid

Date Received: 09/19/17 16:45

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	27	J	39	10	ug/Kg	☼	09/25/17 07:28	09/26/17 17:46	1
Isophorone	<200		200	44	ug/Kg	☼	09/25/17 07:28	09/26/17 17:46	1
Naphthalene	<39		39	6.0	ug/Kg	☼	09/25/17 07:28	09/26/17 17:46	1
Nitrobenzene	<39		39	9.7	ug/Kg	☼	09/25/17 07:28	09/26/17 17:46	1
N-Nitrosodi-n-propylamine	<78		78	48	ug/Kg	☼	09/25/17 07:28	09/26/17 17:46	1
N-Nitrosodiphenylamine	<200		200	46	ug/Kg	☼	09/25/17 07:28	09/26/17 17:46	1
Pentachlorophenol	<780		780	620	ug/Kg	☼	09/25/17 07:28	09/26/17 17:46	1
Phenanthrene	59		39	5.4	ug/Kg	☼	09/25/17 07:28	09/26/17 17:46	1
Phenol	<200		200	86	ug/Kg	☼	09/25/17 07:28	09/26/17 17:46	1
Pyrene	99		39	7.7	ug/Kg	☼	09/25/17 07:28	09/26/17 17:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	70		25 - 139				09/25/17 07:28	09/26/17 17:46	1
2-Fluorobiphenyl	74		44 - 121				09/25/17 07:28	09/26/17 17:46	1
2-Fluorophenol	102		46 - 133				09/25/17 07:28	09/26/17 17:46	1
Nitrobenzene-d5	73		41 - 120				09/25/17 07:28	09/26/17 17:46	1
Phenol-d5	88		46 - 125				09/25/17 07:28	09/26/17 17:46	1
Terphenyl-d14	78		35 - 160				09/25/17 07:28	09/26/17 17:46	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/22/17 14:46	09/25/17 18:41	1
Barium	0.30	J	0.50	0.050	mg/L		09/22/17 14:46	09/25/17 18:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/22/17 14:46	09/25/17 18:41	1
Cadmium	0.0026	J	0.0050	0.0020	mg/L		09/22/17 14:46	09/25/17 18:41	1
Chromium	<0.025		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 18:41	1
Cobalt	<0.025		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 18:41	1
Copper	<0.025		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 18:41	1
Iron	<0.40		0.40	0.20	mg/L		09/22/17 14:46	09/25/17 18:41	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/22/17 14:46	09/25/17 18:41	1
Manganese	3.8		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 18:41	1
Nickel	0.018	J	0.025	0.010	mg/L		09/22/17 14:46	09/25/17 18:41	1
Selenium	<0.050		0.050	0.020	mg/L		09/22/17 14:46	09/25/17 18:41	1
Silver	<0.025		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 18:41	1
Zinc	<0.50		0.50	0.020	mg/L		09/22/17 14:46	09/25/17 18:41	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		09/21/17 16:28	09/25/17 12:25	1
Barium	0.13	J	0.50	0.050	mg/L		09/21/17 16:28	09/25/17 12:25	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/21/17 16:28	09/25/17 12:25	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/21/17 16:28	09/25/17 12:25	1
Chromium	0.014	J	0.025	0.010	mg/L		09/21/17 16:28	09/25/17 12:25	1
Cobalt	<0.025		0.025	0.010	mg/L		09/21/17 16:28	09/25/17 12:25	1
Copper	0.039		0.025	0.010	mg/L		09/21/17 16:28	09/25/17 12:25	1
Iron	10		0.40	0.20	mg/L		09/21/17 16:28	09/25/17 12:25	1
Lead	0.010		0.0075	0.0075	mg/L		09/21/17 16:28	09/25/17 12:25	1
Manganese	0.19		0.025	0.010	mg/L		09/21/17 16:28	09/25/17 12:25	1
Nickel	0.014	J	0.025	0.010	mg/L		09/21/17 16:28	09/25/17 12:25	1
Selenium	<0.050		0.050	0.020	mg/L		09/21/17 16:28	09/25/17 12:25	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134251-1

Client Sample ID: FH-4(6-12)-091917

Lab Sample ID: 500-134251-6

Date Collected: 09/19/17 09:57

Matrix: Solid

Date Received: 09/19/17 16:45

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		09/21/17 16:28	09/25/17 12:25	1
Zinc	0.094	J	0.50	0.020	mg/L		09/21/17 16:28	09/25/17 12:25	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	☼	09/20/17 17:04	09/21/17 14:48	1
Arsenic	13		0.57	0.19	mg/Kg	☼	09/20/17 17:04	09/21/17 14:48	1
Barium	41		0.57	0.065	mg/Kg	☼	09/20/17 17:04	09/21/17 14:48	1
Beryllium	0.68		0.23	0.053	mg/Kg	☼	09/20/17 17:04	09/21/17 14:48	1
Cadmium	0.24		0.11	0.021	mg/Kg	☼	09/20/17 17:04	09/21/17 14:48	1
Calcium	16000	B	11	1.9	mg/Kg	☼	09/20/17 17:04	09/21/17 14:48	1
Chromium	16		0.57	0.28	mg/Kg	☼	09/20/17 17:04	09/21/17 14:48	1
Cobalt	15		0.28	0.075	mg/Kg	☼	09/20/17 17:04	09/21/17 14:48	1
Copper	42	B	0.57	0.16	mg/Kg	☼	09/20/17 17:04	09/21/17 14:48	1
Iron	22000	B	11	5.9	mg/Kg	☼	09/20/17 17:04	09/21/17 14:48	1
Lead	24		0.28	0.13	mg/Kg	☼	09/20/17 17:04	09/21/17 14:48	1
Magnesium	11000	B	5.7	2.8	mg/Kg	☼	09/20/17 17:04	09/21/17 14:48	1
Manganese	280	B	0.57	0.083	mg/Kg	☼	09/20/17 17:04	09/21/17 14:48	1
Nickel	36		0.57	0.17	mg/Kg	☼	09/20/17 17:04	09/21/17 14:48	1
Potassium	2100		28	10	mg/Kg	☼	09/20/17 17:04	09/21/17 14:48	1
Selenium	0.68		0.57	0.34	mg/Kg	☼	09/20/17 17:04	09/21/17 14:48	1
Silver	<0.28		0.28	0.074	mg/Kg	☼	09/20/17 17:04	09/21/17 14:48	1
Sodium	86		57	8.4	mg/Kg	☼	09/20/17 17:04	09/21/17 14:48	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	09/20/17 17:04	09/21/17 14:48	1
Vanadium	22		0.28	0.067	mg/Kg	☼	09/20/17 17:04	09/21/17 14:48	1
Zinc	76	B	1.1	0.50	mg/Kg	☼	09/20/17 17:04	09/21/17 14:48	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		09/22/17 11:15	09/25/17 09:12	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		09/21/17 12:42	09/22/17 11:30	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	45	B	19	6.4	ug/Kg	☼	09/22/17 16:20	09/25/17 13:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.1		0.20	0.20	SU			09/22/17 14:47	1

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134251-1

Client Sample ID: FH-4(12-18)-091917

Lab Sample ID: 500-134251-7

Date Collected: 09/19/17 10:03

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 83.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	21		18	7.9	ug/Kg	☼	09/20/17 08:40	09/21/17 14:18	1
Benzene	<1.8		1.8	0.46	ug/Kg	☼	09/20/17 08:40	09/21/17 14:18	1
Bromodichloromethane	<1.8		1.8	0.37	ug/Kg	☼	09/20/17 08:40	09/21/17 14:18	1
Bromoform	<1.8		1.8	0.53	ug/Kg	☼	09/20/17 08:40	09/21/17 14:18	1
Bromomethane	<4.5		4.5	1.7	ug/Kg	☼	09/20/17 08:40	09/21/17 14:18	1
Carbon disulfide	<4.5		4.5	0.94	ug/Kg	☼	09/20/17 08:40	09/21/17 14:18	1
Carbon tetrachloride	<1.8		1.8	0.52	ug/Kg	☼	09/20/17 08:40	09/21/17 14:18	1
Chlorobenzene	<1.8		1.8	0.67	ug/Kg	☼	09/20/17 08:40	09/21/17 14:18	1
Chloroethane	<4.5 *		4.5	1.3	ug/Kg	☼	09/20/17 08:40	09/21/17 14:18	1
Chloroform	<1.8		1.8	0.63	ug/Kg	☼	09/20/17 08:40	09/21/17 14:18	1
Chloromethane	<4.5		4.5	1.8	ug/Kg	☼	09/20/17 08:40	09/21/17 14:18	1
cis-1,2-Dichloroethene	<1.8		1.8	0.50	ug/Kg	☼	09/20/17 08:40	09/21/17 14:18	1
cis-1,3-Dichloropropene	<1.8		1.8	0.54	ug/Kg	☼	09/20/17 08:40	09/21/17 14:18	1
Dibromochloromethane	<1.8		1.8	0.59	ug/Kg	☼	09/20/17 08:40	09/21/17 14:18	1
1,1-Dichloroethane	<1.8		1.8	0.62	ug/Kg	☼	09/20/17 08:40	09/21/17 14:18	1
1,2-Dichloroethane	<4.5		4.5	1.4	ug/Kg	☼	09/20/17 08:40	09/21/17 14:18	1
1,1-Dichloroethene	<1.8		1.8	0.62	ug/Kg	☼	09/20/17 08:40	09/21/17 14:18	1
1,2-Dichloropropane	<1.8		1.8	0.47	ug/Kg	☼	09/20/17 08:40	09/21/17 14:18	1
1,3-Dichloropropane, Total	<1.8		1.8	0.63	ug/Kg	☼	09/20/17 08:40	09/21/17 14:18	1
Ethylbenzene	<1.8		1.8	0.86	ug/Kg	☼	09/20/17 08:40	09/21/17 14:18	1
2-Hexanone	<4.5		4.5	1.4	ug/Kg	☼	09/20/17 08:40	09/21/17 14:18	1
Methylene Chloride	<4.5		4.5	1.8	ug/Kg	☼	09/20/17 08:40	09/21/17 14:18	1
Methyl Ethyl Ketone	<4.5		4.5	2.0	ug/Kg	☼	09/20/17 08:40	09/21/17 14:18	1
methyl isobutyl ketone	<4.5		4.5	1.3	ug/Kg	☼	09/20/17 08:40	09/21/17 14:18	1
Methyl tert-butyl ether	<1.8		1.8	0.53	ug/Kg	☼	09/20/17 08:40	09/21/17 14:18	1
Styrene	<1.8		1.8	0.55	ug/Kg	☼	09/20/17 08:40	09/21/17 14:18	1
1,1,2,2-Tetrachloroethane	<1.8		1.8	0.58	ug/Kg	☼	09/20/17 08:40	09/21/17 14:18	1
Tetrachloroethene	<1.8		1.8	0.62	ug/Kg	☼	09/20/17 08:40	09/21/17 14:18	1
Toluene	<1.8		1.8	0.46	ug/Kg	☼	09/20/17 08:40	09/21/17 14:18	1
trans-1,2-Dichloroethene	<1.8		1.8	0.80	ug/Kg	☼	09/20/17 08:40	09/21/17 14:18	1
trans-1,3-Dichloropropene	<1.8		1.8	0.63	ug/Kg	☼	09/20/17 08:40	09/21/17 14:18	1
1,1,1-Trichloroethane	<1.8		1.8	0.61	ug/Kg	☼	09/20/17 08:40	09/21/17 14:18	1
1,1,2-Trichloroethane	<1.8		1.8	0.78	ug/Kg	☼	09/20/17 08:40	09/21/17 14:18	1
Trichloroethene	<1.8		1.8	0.61	ug/Kg	☼	09/20/17 08:40	09/21/17 14:18	1
Vinyl chloride	<1.8		1.8	0.80	ug/Kg	☼	09/20/17 08:40	09/21/17 14:18	1
Xylenes, Total	<3.6		3.6	0.58	ug/Kg	☼	09/20/17 08:40	09/21/17 14:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		75 - 131	09/20/17 08:40	09/21/17 14:18	1
Dibromofluoromethane	98		75 - 126	09/20/17 08:40	09/21/17 14:18	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	09/20/17 08:40	09/21/17 14:18	1
Toluene-d8 (Surr)	104		75 - 124	09/20/17 08:40	09/21/17 14:18	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	☼	09/25/17 07:28	09/26/17 18:11	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	09/25/17 07:28	09/26/17 18:11	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	09/25/17 07:28	09/26/17 18:11	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	09/25/17 07:28	09/26/17 18:11	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	09/25/17 07:28	09/26/17 18:11	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134251-1

Client Sample ID: FH-4(12-18)-091917

Lab Sample ID: 500-134251-7

Date Collected: 09/19/17 10:03

Matrix: Solid

Date Received: 09/19/17 16:45

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	87	ug/Kg	☼	09/25/17 07:28	09/26/17 18:11	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	09/25/17 07:28	09/26/17 18:11	1
2,4-Dichlorophenol	<380		380	90	ug/Kg	☼	09/25/17 07:28	09/26/17 18:11	1
2,4-Dimethylphenol	<380		380	140	ug/Kg	☼	09/25/17 07:28	09/26/17 18:11	1
2,4-Dinitrophenol	<770	*	770	670	ug/Kg	☼	09/25/17 07:28	09/26/17 18:11	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	09/25/17 07:28	09/26/17 18:11	1
2,6-Dinitrotoluene	<190		190	75	ug/Kg	☼	09/25/17 07:28	09/26/17 18:11	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	09/25/17 07:28	09/26/17 18:11	1
2-Chlorophenol	<190		190	65	ug/Kg	☼	09/25/17 07:28	09/26/17 18:11	1
2-Methylnaphthalene	<77		77	7.0	ug/Kg	☼	09/25/17 07:28	09/26/17 18:11	1
2-Methylphenol	<190		190	61	ug/Kg	☼	09/25/17 07:28	09/26/17 18:11	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	09/25/17 07:28	09/26/17 18:11	1
2-Nitrophenol	<380		380	90	ug/Kg	☼	09/25/17 07:28	09/26/17 18:11	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	☼	09/25/17 07:28	09/26/17 18:11	1
3,3'-Dichlorobenzidine	<190		190	53	ug/Kg	☼	09/25/17 07:28	09/26/17 18:11	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	09/25/17 07:28	09/26/17 18:11	1
4,6-Dinitro-2-methylphenol	<770		770	310	ug/Kg	☼	09/25/17 07:28	09/26/17 18:11	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	09/25/17 07:28	09/26/17 18:11	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	09/25/17 07:28	09/26/17 18:11	1
4-Chloroaniline	<770		770	180	ug/Kg	☼	09/25/17 07:28	09/26/17 18:11	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	09/25/17 07:28	09/26/17 18:11	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	09/25/17 07:28	09/26/17 18:11	1
4-Nitrophenol	<770		770	360	ug/Kg	☼	09/25/17 07:28	09/26/17 18:11	1
Acenaphthene	8.2	J	38	6.8	ug/Kg	☼	09/25/17 07:28	09/26/17 18:11	1
Acenaphthylene	14	J	38	5.0	ug/Kg	☼	09/25/17 07:28	09/26/17 18:11	1
Anthracene	40		38	6.4	ug/Kg	☼	09/25/17 07:28	09/26/17 18:11	1
Benzo[a]anthracene	160		38	5.1	ug/Kg	☼	09/25/17 07:28	09/26/17 18:11	1
Benzo[a]pyrene	160		38	7.4	ug/Kg	☼	09/25/17 07:28	09/26/17 18:11	1
Benzo[b]fluoranthene	250		38	8.2	ug/Kg	☼	09/25/17 07:28	09/26/17 18:11	1
Benzo[g,h,i]perylene	73		38	12	ug/Kg	☼	09/25/17 07:28	09/26/17 18:11	1
Benzo[k]fluoranthene	110		38	11	ug/Kg	☼	09/25/17 07:28	09/26/17 18:11	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	09/25/17 07:28	09/26/17 18:11	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	09/25/17 07:28	09/26/17 18:11	1
Bis(2-ethylhexyl) phthalate	<190		190	70	ug/Kg	☼	09/25/17 07:28	09/26/17 18:11	1
Butyl benzyl phthalate	<190		190	72	ug/Kg	☼	09/25/17 07:28	09/26/17 18:11	1
Carbazole	<190		190	95	ug/Kg	☼	09/25/17 07:28	09/26/17 18:11	1
Chrysene	180		38	10	ug/Kg	☼	09/25/17 07:28	09/26/17 18:11	1
Dibenz(a,h)anthracene	22	J	38	7.4	ug/Kg	☼	09/25/17 07:28	09/26/17 18:11	1
Dibenzofuran	<190		190	45	ug/Kg	☼	09/25/17 07:28	09/26/17 18:11	1
Diethyl phthalate	<190		190	65	ug/Kg	☼	09/25/17 07:28	09/26/17 18:11	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	09/25/17 07:28	09/26/17 18:11	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	09/25/17 07:28	09/26/17 18:11	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	09/25/17 07:28	09/26/17 18:11	1
Fluoranthene	380		38	7.1	ug/Kg	☼	09/25/17 07:28	09/26/17 18:11	1
Fluorene	14	J	38	5.4	ug/Kg	☼	09/25/17 07:28	09/26/17 18:11	1
Hexachlorobenzene	<77		77	8.8	ug/Kg	☼	09/25/17 07:28	09/26/17 18:11	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	09/25/17 07:28	09/26/17 18:11	1
Hexachlorocyclopentadiene	<770		770	220	ug/Kg	☼	09/25/17 07:28	09/26/17 18:11	1
Hexachloroethane	<190		190	58	ug/Kg	☼	09/25/17 07:28	09/26/17 18:11	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134251-1

Client Sample ID: FH-4(12-18)-091917

Lab Sample ID: 500-134251-7

Date Collected: 09/19/17 10:03

Matrix: Solid

Date Received: 09/19/17 16:45

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	74		38	9.9	ug/Kg	☼	09/25/17 07:28	09/26/17 18:11	1
Isophorone	<190		190	43	ug/Kg	☼	09/25/17 07:28	09/26/17 18:11	1
Naphthalene	<38		38	5.9	ug/Kg	☼	09/25/17 07:28	09/26/17 18:11	1
Nitrobenzene	<38		38	9.5	ug/Kg	☼	09/25/17 07:28	09/26/17 18:11	1
N-Nitrosodi-n-propylamine	<77		77	47	ug/Kg	☼	09/25/17 07:28	09/26/17 18:11	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	09/25/17 07:28	09/26/17 18:11	1
Pentachlorophenol	<770		770	610	ug/Kg	☼	09/25/17 07:28	09/26/17 18:11	1
Phenanthrene	200		38	5.3	ug/Kg	☼	09/25/17 07:28	09/26/17 18:11	1
Phenol	<190		190	85	ug/Kg	☼	09/25/17 07:28	09/26/17 18:11	1
Pyrene	320		38	7.6	ug/Kg	☼	09/25/17 07:28	09/26/17 18:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	79		25 - 139				09/25/17 07:28	09/26/17 18:11	1
2-Fluorobiphenyl	72		44 - 121				09/25/17 07:28	09/26/17 18:11	1
2-Fluorophenol	93		46 - 133				09/25/17 07:28	09/26/17 18:11	1
Nitrobenzene-d5	76		41 - 120				09/25/17 07:28	09/26/17 18:11	1
Phenol-d5	85		46 - 125				09/25/17 07:28	09/26/17 18:11	1
Terphenyl-d14	81		35 - 160				09/25/17 07:28	09/26/17 18:11	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		09/22/17 14:46	09/25/17 18:45	1
Barium	0.39	J	0.50	0.050	mg/L		09/22/17 14:46	09/25/17 18:45	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/22/17 14:46	09/25/17 18:45	1
Cadmium	0.0033	J	0.0050	0.0020	mg/L		09/22/17 14:46	09/25/17 18:45	1
Chromium	<0.025		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 18:45	1
Cobalt	0.031		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 18:45	1
Copper	<0.025		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 18:45	1
Iron	<0.40		0.40	0.20	mg/L		09/22/17 14:46	09/25/17 18:45	1
Lead	0.0097		0.0075	0.0075	mg/L		09/22/17 14:46	09/25/17 18:45	1
Manganese	9.0		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 18:45	1
Nickel	0.023	J	0.025	0.010	mg/L		09/22/17 14:46	09/25/17 18:45	1
Selenium	<0.050		0.050	0.020	mg/L		09/22/17 14:46	09/25/17 18:45	1
Silver	<0.025		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 18:45	1
Zinc	0.030	J	0.50	0.020	mg/L		09/22/17 14:46	09/25/17 18:45	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		09/21/17 16:28	09/25/17 12:29	1
Barium	0.091	J	0.50	0.050	mg/L		09/21/17 16:28	09/25/17 12:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/21/17 16:28	09/25/17 12:29	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/21/17 16:28	09/25/17 12:29	1
Chromium	<0.025		0.025	0.010	mg/L		09/21/17 16:28	09/25/17 12:29	1
Cobalt	<0.025		0.025	0.010	mg/L		09/21/17 16:28	09/25/17 12:29	1
Copper	0.014	J	0.025	0.010	mg/L		09/21/17 16:28	09/25/17 12:29	1
Iron	3.2		0.40	0.20	mg/L		09/21/17 16:28	09/25/17 12:29	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/21/17 16:28	09/25/17 12:29	1
Manganese	0.068		0.025	0.010	mg/L		09/21/17 16:28	09/25/17 12:29	1
Nickel	<0.025		0.025	0.010	mg/L		09/21/17 16:28	09/25/17 12:29	1
Selenium	<0.050		0.050	0.020	mg/L		09/21/17 16:28	09/25/17 12:29	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134251-1

Client Sample ID: FH-4(12-18)-091917

Lab Sample ID: 500-134251-7

Date Collected: 09/19/17 10:03

Matrix: Solid

Date Received: 09/19/17 16:45

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		09/21/17 16:28	09/25/17 12:29	1
Zinc	0.051	J	0.50	0.020	mg/L		09/21/17 16:28	09/25/17 12:29	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	☼	09/20/17 17:04	09/21/17 15:00	1
Arsenic	8.5		0.56	0.19	mg/Kg	☼	09/20/17 17:04	09/21/17 15:00	1
Barium	56		0.56	0.064	mg/Kg	☼	09/20/17 17:04	09/21/17 15:00	1
Beryllium	0.60		0.23	0.053	mg/Kg	☼	09/20/17 17:04	09/21/17 15:00	1
Cadmium	0.21		0.11	0.020	mg/Kg	☼	09/20/17 17:04	09/21/17 15:00	1
Calcium	20000	B	11	1.9	mg/Kg	☼	09/20/17 17:04	09/21/17 15:00	1
Chromium	16		0.56	0.28	mg/Kg	☼	09/20/17 17:04	09/21/17 15:00	1
Cobalt	13		0.28	0.074	mg/Kg	☼	09/20/17 17:04	09/21/17 15:00	1
Copper	27	B	0.56	0.16	mg/Kg	☼	09/20/17 17:04	09/21/17 15:00	1
Iron	19000	B	11	5.9	mg/Kg	☼	09/20/17 17:04	09/21/17 15:00	1
Lead	32		0.28	0.13	mg/Kg	☼	09/20/17 17:04	09/21/17 15:00	1
Magnesium	15000	B	5.6	2.8	mg/Kg	☼	09/20/17 17:04	09/21/17 15:00	1
Manganese	370	B	0.56	0.082	mg/Kg	☼	09/20/17 17:04	09/21/17 15:00	1
Nickel	29		0.56	0.16	mg/Kg	☼	09/20/17 17:04	09/21/17 15:00	1
Potassium	2000		28	10	mg/Kg	☼	09/20/17 17:04	09/21/17 15:00	1
Selenium	0.64		0.56	0.33	mg/Kg	☼	09/20/17 17:04	09/21/17 15:00	1
Silver	<0.28		0.28	0.073	mg/Kg	☼	09/20/17 17:04	09/21/17 15:00	1
Sodium	91		56	8.3	mg/Kg	☼	09/20/17 17:04	09/21/17 15:00	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	09/20/17 17:04	09/21/17 15:00	1
Vanadium	21		0.28	0.066	mg/Kg	☼	09/20/17 17:04	09/21/17 15:00	1
Zinc	61	B	1.1	0.49	mg/Kg	☼	09/20/17 17:04	09/21/17 15:00	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		09/22/17 11:15	09/25/17 09:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		09/21/17 12:42	09/22/17 11:32	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	47	B	19	6.4	ug/Kg	☼	09/22/17 16:20	09/25/17 13:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.2		0.20	0.20	SU			09/22/17 14:51	1

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134251-1

Client Sample ID: FH-5(0-6)-091917

Lab Sample ID: 500-134251-8

Date Collected: 09/19/17 10:27

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 86.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25		21	9.1	ug/Kg	☼	09/20/17 08:40	09/21/17 14:43	1
Benzene	<2.1		2.1	0.53	ug/Kg	☼	09/20/17 08:40	09/21/17 14:43	1
Bromodichloromethane	<2.1		2.1	0.43	ug/Kg	☼	09/20/17 08:40	09/21/17 14:43	1
Bromoform	<2.1		2.1	0.61	ug/Kg	☼	09/20/17 08:40	09/21/17 14:43	1
Bromomethane	<5.2		5.2	2.0	ug/Kg	☼	09/20/17 08:40	09/21/17 14:43	1
Carbon disulfide	<5.2		5.2	1.1	ug/Kg	☼	09/20/17 08:40	09/21/17 14:43	1
Carbon tetrachloride	<2.1		2.1	0.61	ug/Kg	☼	09/20/17 08:40	09/21/17 14:43	1
Chlorobenzene	<2.1		2.1	0.77	ug/Kg	☼	09/20/17 08:40	09/21/17 14:43	1
Chloroethane	<5.2 *		5.2	1.5	ug/Kg	☼	09/20/17 08:40	09/21/17 14:43	1
Chloroform	<2.1		2.1	0.73	ug/Kg	☼	09/20/17 08:40	09/21/17 14:43	1
Chloromethane	<5.2		5.2	2.1	ug/Kg	☼	09/20/17 08:40	09/21/17 14:43	1
cis-1,2-Dichloroethene	<2.1		2.1	0.59	ug/Kg	☼	09/20/17 08:40	09/21/17 14:43	1
cis-1,3-Dichloropropene	<2.1		2.1	0.63	ug/Kg	☼	09/20/17 08:40	09/21/17 14:43	1
Dibromochloromethane	<2.1		2.1	0.68	ug/Kg	☼	09/20/17 08:40	09/21/17 14:43	1
1,1-Dichloroethane	<2.1		2.1	0.72	ug/Kg	☼	09/20/17 08:40	09/21/17 14:43	1
1,2-Dichloroethane	<5.2		5.2	1.6	ug/Kg	☼	09/20/17 08:40	09/21/17 14:43	1
1,1-Dichloroethene	<2.1		2.1	0.72	ug/Kg	☼	09/20/17 08:40	09/21/17 14:43	1
1,2-Dichloropropane	<2.1		2.1	0.54	ug/Kg	☼	09/20/17 08:40	09/21/17 14:43	1
1,3-Dichloropropane, Total	<2.1		2.1	0.74	ug/Kg	☼	09/20/17 08:40	09/21/17 14:43	1
Ethylbenzene	<2.1		2.1	1.0	ug/Kg	☼	09/20/17 08:40	09/21/17 14:43	1
2-Hexanone	<5.2		5.2	1.6	ug/Kg	☼	09/20/17 08:40	09/21/17 14:43	1
Methylene Chloride	<5.2		5.2	2.1	ug/Kg	☼	09/20/17 08:40	09/21/17 14:43	1
Methyl Ethyl Ketone	<5.2		5.2	2.3	ug/Kg	☼	09/20/17 08:40	09/21/17 14:43	1
methyl isobutyl ketone	<5.2		5.2	1.5	ug/Kg	☼	09/20/17 08:40	09/21/17 14:43	1
Methyl tert-butyl ether	<2.1		2.1	0.61	ug/Kg	☼	09/20/17 08:40	09/21/17 14:43	1
Styrene	<2.1		2.1	0.63	ug/Kg	☼	09/20/17 08:40	09/21/17 14:43	1
1,1,2,2-Tetrachloroethane	<2.1		2.1	0.67	ug/Kg	☼	09/20/17 08:40	09/21/17 14:43	1
Tetrachloroethene	<2.1		2.1	0.71	ug/Kg	☼	09/20/17 08:40	09/21/17 14:43	1
Toluene	<2.1		2.1	0.53	ug/Kg	☼	09/20/17 08:40	09/21/17 14:43	1
trans-1,2-Dichloroethene	<2.1		2.1	0.93	ug/Kg	☼	09/20/17 08:40	09/21/17 14:43	1
trans-1,3-Dichloropropene	<2.1		2.1	0.74	ug/Kg	☼	09/20/17 08:40	09/21/17 14:43	1
1,1,1-Trichloroethane	<2.1		2.1	0.70	ug/Kg	☼	09/20/17 08:40	09/21/17 14:43	1
1,1,2-Trichloroethane	<2.1		2.1	0.90	ug/Kg	☼	09/20/17 08:40	09/21/17 14:43	1
Trichloroethene	<2.1		2.1	0.71	ug/Kg	☼	09/20/17 08:40	09/21/17 14:43	1
Vinyl chloride	<2.1		2.1	0.93	ug/Kg	☼	09/20/17 08:40	09/21/17 14:43	1
Xylenes, Total	<4.2		4.2	0.67	ug/Kg	☼	09/20/17 08:40	09/21/17 14:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		75 - 131	09/20/17 08:40	09/21/17 14:43	1
Dibromofluoromethane	102		75 - 126	09/20/17 08:40	09/21/17 14:43	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134	09/20/17 08:40	09/21/17 14:43	1
Toluene-d8 (Surr)	100		75 - 124	09/20/17 08:40	09/21/17 14:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	40	ug/Kg	☼	09/25/17 07:31	09/26/17 18:36	1
1,2-Dichlorobenzene	<190		190	44	ug/Kg	☼	09/25/17 07:31	09/26/17 18:36	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	09/25/17 07:31	09/26/17 18:36	1
1,4-Dichlorobenzene	<190		190	47	ug/Kg	☼	09/25/17 07:31	09/26/17 18:36	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	09/25/17 07:31	09/26/17 18:36	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134251-1

Client Sample ID: FH-5(0-6)-091917

Lab Sample ID: 500-134251-8

Date Collected: 09/19/17 10:27

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 86.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	84	ug/Kg	☼	09/25/17 07:31	09/26/17 18:36	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	09/25/17 07:31	09/26/17 18:36	1
2,4-Dichlorophenol	<370		370	88	ug/Kg	☼	09/25/17 07:31	09/26/17 18:36	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	09/25/17 07:31	09/26/17 18:36	1
2,4-Dinitrophenol	<750	*	750	650	ug/Kg	☼	09/25/17 07:31	09/26/17 18:36	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	09/25/17 07:31	09/26/17 18:36	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	09/25/17 07:31	09/26/17 18:36	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	09/25/17 07:31	09/26/17 18:36	1
2-Chlorophenol	<190		190	63	ug/Kg	☼	09/25/17 07:31	09/26/17 18:36	1
2-Methylnaphthalene	8.7	J	75	6.8	ug/Kg	☼	09/25/17 07:31	09/26/17 18:36	1
2-Methylphenol	<190		190	59	ug/Kg	☼	09/25/17 07:31	09/26/17 18:36	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	09/25/17 07:31	09/26/17 18:36	1
2-Nitrophenol	<370		370	87	ug/Kg	☼	09/25/17 07:31	09/26/17 18:36	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	09/25/17 07:31	09/26/17 18:36	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	09/25/17 07:31	09/26/17 18:36	1
3-Nitroaniline	<370		370	110	ug/Kg	☼	09/25/17 07:31	09/26/17 18:36	1
4,6-Dinitro-2-methylphenol	<750		750	300	ug/Kg	☼	09/25/17 07:31	09/26/17 18:36	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	09/25/17 07:31	09/26/17 18:36	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	09/25/17 07:31	09/26/17 18:36	1
4-Chloroaniline	<750		750	170	ug/Kg	☼	09/25/17 07:31	09/26/17 18:36	1
4-Chlorophenyl phenyl ether	<190		190	43	ug/Kg	☼	09/25/17 07:31	09/26/17 18:36	1
4-Nitroaniline	<370		370	150	ug/Kg	☼	09/25/17 07:31	09/26/17 18:36	1
4-Nitrophenol	<750		750	350	ug/Kg	☼	09/25/17 07:31	09/26/17 18:36	1
Acenaphthene	26	J	37	6.7	ug/Kg	☼	09/25/17 07:31	09/26/17 18:36	1
Acenaphthylene	12	J	37	4.9	ug/Kg	☼	09/25/17 07:31	09/26/17 18:36	1
Anthracene	140		37	6.2	ug/Kg	☼	09/25/17 07:31	09/26/17 18:36	1
Benzo[a]anthracene	350		37	5.0	ug/Kg	☼	09/25/17 07:31	09/26/17 18:36	1
Benzo[a]pyrene	310		37	7.2	ug/Kg	☼	09/25/17 07:31	09/26/17 18:36	1
Benzo[b]fluoranthene	520		37	8.0	ug/Kg	☼	09/25/17 07:31	09/26/17 18:36	1
Benzo[g,h,i]perylene	120		37	12	ug/Kg	☼	09/25/17 07:31	09/26/17 18:36	1
Benzo[k]fluoranthene	210		37	11	ug/Kg	☼	09/25/17 07:31	09/26/17 18:36	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	09/25/17 07:31	09/26/17 18:36	1
Bis(2-chloroethyl)ether	<190		190	55	ug/Kg	☼	09/25/17 07:31	09/26/17 18:36	1
Bis(2-ethylhexyl) phthalate	<190		190	68	ug/Kg	☼	09/25/17 07:31	09/26/17 18:36	1
Butyl benzyl phthalate	<190		190	70	ug/Kg	☼	09/25/17 07:31	09/26/17 18:36	1
Carbazole	<190		190	92	ug/Kg	☼	09/25/17 07:31	09/26/17 18:36	1
Chrysene	410		37	10	ug/Kg	☼	09/25/17 07:31	09/26/17 18:36	1
Dibenz(a,h)anthracene	44		37	7.2	ug/Kg	☼	09/25/17 07:31	09/26/17 18:36	1
Dibenzofuran	<190		190	43	ug/Kg	☼	09/25/17 07:31	09/26/17 18:36	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	09/25/17 07:31	09/26/17 18:36	1
Dimethyl phthalate	<190		190	48	ug/Kg	☼	09/25/17 07:31	09/26/17 18:36	1
Di-n-butyl phthalate	<190		190	56	ug/Kg	☼	09/25/17 07:31	09/26/17 18:36	1
Di-n-octyl phthalate	<190		190	60	ug/Kg	☼	09/25/17 07:31	09/26/17 18:36	1
Fluoranthene	850		37	6.9	ug/Kg	☼	09/25/17 07:31	09/26/17 18:36	1
Fluorene	55		37	5.2	ug/Kg	☼	09/25/17 07:31	09/26/17 18:36	1
Hexachlorobenzene	<75		75	8.6	ug/Kg	☼	09/25/17 07:31	09/26/17 18:36	1
Hexachlorobutadiene	<190		190	58	ug/Kg	☼	09/25/17 07:31	09/26/17 18:36	1
Hexachlorocyclopentadiene	<750		750	210	ug/Kg	☼	09/25/17 07:31	09/26/17 18:36	1
Hexachloroethane	<190		190	56	ug/Kg	☼	09/25/17 07:31	09/26/17 18:36	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134251-1

Client Sample ID: FH-5(0-6)-091917

Lab Sample ID: 500-134251-8

Date Collected: 09/19/17 10:27

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 86.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	130		37	9.6	ug/Kg	☼	09/25/17 07:31	09/26/17 18:36	1
Isophorone	<190		190	42	ug/Kg	☼	09/25/17 07:31	09/26/17 18:36	1
Naphthalene	9.3 J		37	5.7	ug/Kg	☼	09/25/17 07:31	09/26/17 18:36	1
Nitrobenzene	<37		37	9.2	ug/Kg	☼	09/25/17 07:31	09/26/17 18:36	1
N-Nitrosodi-n-propylamine	<75		75	45	ug/Kg	☼	09/25/17 07:31	09/26/17 18:36	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	09/25/17 07:31	09/26/17 18:36	1
Pentachlorophenol	<750		750	590	ug/Kg	☼	09/25/17 07:31	09/26/17 18:36	1
Phenanthrene	580		37	5.2	ug/Kg	☼	09/25/17 07:31	09/26/17 18:36	1
Phenol	<190		190	82	ug/Kg	☼	09/25/17 07:31	09/26/17 18:36	1
Pyrene	670		37	7.4	ug/Kg	☼	09/25/17 07:31	09/26/17 18:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	85		25 - 139				09/25/17 07:31	09/26/17 18:36	1
2-Fluorobiphenyl	74		44 - 121				09/25/17 07:31	09/26/17 18:36	1
2-Fluorophenol	95		46 - 133				09/25/17 07:31	09/26/17 18:36	1
Nitrobenzene-d5	80		41 - 120				09/25/17 07:31	09/26/17 18:36	1
Phenol-d5	90		46 - 125				09/25/17 07:31	09/26/17 18:36	1
Terphenyl-d14	83		35 - 160				09/25/17 07:31	09/26/17 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		09/22/17 14:46	09/25/17 18:49	1
Barium	0.35 J		0.50	0.050	mg/L		09/22/17 14:46	09/25/17 18:49	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/22/17 14:46	09/25/17 18:49	1
Cadmium	0.0032 J		0.0050	0.0020	mg/L		09/22/17 14:46	09/25/17 18:49	1
Chromium	<0.025		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 18:49	1
Cobalt	0.017 J		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 18:49	1
Copper	<0.025		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 18:49	1
Iron	<0.40		0.40	0.20	mg/L		09/22/17 14:46	09/25/17 18:49	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/22/17 14:46	09/25/17 18:49	1
Manganese	4.8		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 18:49	1
Nickel	0.017 J		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 18:49	1
Selenium	<0.050		0.050	0.020	mg/L		09/22/17 14:46	09/25/17 18:49	1
Silver	<0.025		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 18:49	1
Zinc	0.034 J		0.50	0.020	mg/L		09/22/17 14:46	09/25/17 18:49	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		09/21/17 16:28	09/25/17 12:33	1
Barium	0.16 J		0.50	0.050	mg/L		09/21/17 16:28	09/25/17 12:33	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/21/17 16:28	09/25/17 12:33	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/21/17 16:28	09/25/17 12:33	1
Chromium	0.016 J		0.025	0.010	mg/L		09/21/17 16:28	09/25/17 12:33	1
Cobalt	<0.025		0.025	0.010	mg/L		09/21/17 16:28	09/25/17 12:33	1
Copper	0.029		0.025	0.010	mg/L		09/21/17 16:28	09/25/17 12:33	1
Iron	12		0.40	0.20	mg/L		09/21/17 16:28	09/25/17 12:33	1
Lead	0.017		0.0075	0.0075	mg/L		09/21/17 16:28	09/25/17 12:33	1
Manganese	0.11		0.025	0.010	mg/L		09/21/17 16:28	09/25/17 12:33	1
Nickel	0.015 J		0.025	0.010	mg/L		09/21/17 16:28	09/25/17 12:33	1
Selenium	<0.050		0.050	0.020	mg/L		09/21/17 16:28	09/25/17 12:33	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134251-1

Client Sample ID: FH-5(0-6)-091917

Lab Sample ID: 500-134251-8

Date Collected: 09/19/17 10:27

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 86.4

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		09/21/17 16:28	09/25/17 12:33	1
Zinc	0.095	J	0.50	0.020	mg/L		09/21/17 16:28	09/25/17 12:33	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	☼	09/20/17 17:04	09/21/17 15:04	1
Arsenic	7.9		0.56	0.19	mg/Kg	☼	09/20/17 17:04	09/21/17 15:04	1
Barium	68		0.56	0.064	mg/Kg	☼	09/20/17 17:04	09/21/17 15:04	1
Beryllium	0.56		0.22	0.052	mg/Kg	☼	09/20/17 17:04	09/21/17 15:04	1
Cadmium	0.23		0.11	0.020	mg/Kg	☼	09/20/17 17:04	09/21/17 15:04	1
Calcium	18000	B	11	1.9	mg/Kg	☼	09/20/17 17:04	09/21/17 15:04	1
Chromium	15		0.56	0.28	mg/Kg	☼	09/20/17 17:04	09/21/17 15:04	1
Cobalt	13		0.28	0.073	mg/Kg	☼	09/20/17 17:04	09/21/17 15:04	1
Copper	24	B	0.56	0.16	mg/Kg	☼	09/20/17 17:04	09/21/17 15:04	1
Iron	17000	B	11	5.8	mg/Kg	☼	09/20/17 17:04	09/21/17 15:04	1
Lead	34		0.28	0.13	mg/Kg	☼	09/20/17 17:04	09/21/17 15:04	1
Magnesium	12000	B	5.6	2.8	mg/Kg	☼	09/20/17 17:04	09/21/17 15:04	1
Manganese	440	B	0.56	0.081	mg/Kg	☼	09/20/17 17:04	09/21/17 15:04	1
Nickel	28		0.56	0.16	mg/Kg	☼	09/20/17 17:04	09/21/17 15:04	1
Potassium	1500		28	9.9	mg/Kg	☼	09/20/17 17:04	09/21/17 15:04	1
Selenium	<0.56		0.56	0.33	mg/Kg	☼	09/20/17 17:04	09/21/17 15:04	1
Silver	<0.28		0.28	0.072	mg/Kg	☼	09/20/17 17:04	09/21/17 15:04	1
Sodium	88		56	8.2	mg/Kg	☼	09/20/17 17:04	09/21/17 15:04	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	09/20/17 17:04	09/21/17 15:04	1
Vanadium	20		0.28	0.066	mg/Kg	☼	09/20/17 17:04	09/21/17 15:04	1
Zinc	60	B	1.1	0.49	mg/Kg	☼	09/20/17 17:04	09/21/17 15:04	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		09/22/17 11:15	09/25/17 09:14	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		09/21/17 12:42	09/22/17 11:33	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	46	B	17	5.7	ug/Kg	☼	09/22/17 16:20	09/25/17 13:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.0		0.20	0.20	SU			09/22/17 14:56	1

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134251-1

Client Sample ID: FH-5(0-6)-091917D

Lab Sample ID: 500-134251-9

Date Collected: 09/19/17 10:27

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 85.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	31		17	7.2	ug/Kg	☼	09/20/17 08:40	09/21/17 15:08	1
Benzene	<1.7		1.7	0.42	ug/Kg	☼	09/20/17 08:40	09/21/17 15:08	1
Bromodichloromethane	<1.7		1.7	0.34	ug/Kg	☼	09/20/17 08:40	09/21/17 15:08	1
Bromoform	<1.7		1.7	0.48	ug/Kg	☼	09/20/17 08:40	09/21/17 15:08	1
Bromomethane	<4.1		4.1	1.6	ug/Kg	☼	09/20/17 08:40	09/21/17 15:08	1
Carbon disulfide	<4.1		4.1	0.86	ug/Kg	☼	09/20/17 08:40	09/21/17 15:08	1
Carbon tetrachloride	<1.7		1.7	0.48	ug/Kg	☼	09/20/17 08:40	09/21/17 15:08	1
Chlorobenzene	<1.7		1.7	0.61	ug/Kg	☼	09/20/17 08:40	09/21/17 15:08	1
Chloroethane	<4.1 *		4.1	1.2	ug/Kg	☼	09/20/17 08:40	09/21/17 15:08	1
Chloroform	<1.7		1.7	0.57	ug/Kg	☼	09/20/17 08:40	09/21/17 15:08	1
Chloromethane	<4.1		4.1	1.7	ug/Kg	☼	09/20/17 08:40	09/21/17 15:08	1
cis-1,2-Dichloroethene	<1.7		1.7	0.46	ug/Kg	☼	09/20/17 08:40	09/21/17 15:08	1
cis-1,3-Dichloropropene	<1.7		1.7	0.50	ug/Kg	☼	09/20/17 08:40	09/21/17 15:08	1
Dibromochloromethane	<1.7		1.7	0.54	ug/Kg	☼	09/20/17 08:40	09/21/17 15:08	1
1,1-Dichloroethane	<1.7		1.7	0.57	ug/Kg	☼	09/20/17 08:40	09/21/17 15:08	1
1,2-Dichloroethane	<4.1		4.1	1.3	ug/Kg	☼	09/20/17 08:40	09/21/17 15:08	1
1,1-Dichloroethene	<1.7		1.7	0.57	ug/Kg	☼	09/20/17 08:40	09/21/17 15:08	1
1,2-Dichloropropane	<1.7		1.7	0.43	ug/Kg	☼	09/20/17 08:40	09/21/17 15:08	1
1,3-Dichloropropene, Total	<1.7		1.7	0.58	ug/Kg	☼	09/20/17 08:40	09/21/17 15:08	1
Ethylbenzene	<1.7		1.7	0.79	ug/Kg	☼	09/20/17 08:40	09/21/17 15:08	1
2-Hexanone	<4.1		4.1	1.3	ug/Kg	☼	09/20/17 08:40	09/21/17 15:08	1
Methylene Chloride	<4.1		4.1	1.6	ug/Kg	☼	09/20/17 08:40	09/21/17 15:08	1
Methyl Ethyl Ketone	<4.1		4.1	1.8	ug/Kg	☼	09/20/17 08:40	09/21/17 15:08	1
methyl isobutyl ketone	<4.1		4.1	1.2	ug/Kg	☼	09/20/17 08:40	09/21/17 15:08	1
Methyl tert-butyl ether	<1.7		1.7	0.49	ug/Kg	☼	09/20/17 08:40	09/21/17 15:08	1
Styrene	<1.7		1.7	0.50	ug/Kg	☼	09/20/17 08:40	09/21/17 15:08	1
1,1,2,2-Tetrachloroethane	<1.7		1.7	0.53	ug/Kg	☼	09/20/17 08:40	09/21/17 15:08	1
Tetrachloroethene	<1.7		1.7	0.56	ug/Kg	☼	09/20/17 08:40	09/21/17 15:08	1
Toluene	<1.7		1.7	0.42	ug/Kg	☼	09/20/17 08:40	09/21/17 15:08	1
trans-1,2-Dichloroethene	<1.7		1.7	0.73	ug/Kg	☼	09/20/17 08:40	09/21/17 15:08	1
trans-1,3-Dichloropropene	<1.7		1.7	0.58	ug/Kg	☼	09/20/17 08:40	09/21/17 15:08	1
1,1,1-Trichloroethane	<1.7		1.7	0.56	ug/Kg	☼	09/20/17 08:40	09/21/17 15:08	1
1,1,2-Trichloroethane	<1.7		1.7	0.71	ug/Kg	☼	09/20/17 08:40	09/21/17 15:08	1
Trichloroethene	<1.7		1.7	0.56	ug/Kg	☼	09/20/17 08:40	09/21/17 15:08	1
Vinyl chloride	<1.7		1.7	0.73	ug/Kg	☼	09/20/17 08:40	09/21/17 15:08	1
Xylenes, Total	<3.3		3.3	0.53	ug/Kg	☼	09/20/17 08:40	09/21/17 15:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		75 - 131	09/20/17 08:40	09/21/17 15:08	1
Dibromofluoromethane	94		75 - 126	09/20/17 08:40	09/21/17 15:08	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	09/20/17 08:40	09/21/17 15:08	1
Toluene-d8 (Surr)	98		75 - 124	09/20/17 08:40	09/21/17 15:08	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	☼	09/25/17 07:31	09/26/17 19:00	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	09/25/17 07:31	09/26/17 19:00	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	09/25/17 07:31	09/26/17 19:00	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	09/25/17 07:31	09/26/17 19:00	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	09/25/17 07:31	09/26/17 19:00	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134251-1

Client Sample ID: FH-5(0-6)-091917D

Lab Sample ID: 500-134251-9

Date Collected: 09/19/17 10:27

Matrix: Solid

Date Received: 09/19/17 16:45

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	<370		370	85	ug/Kg	☼	09/25/17 07:31	09/26/17 19:00	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	09/25/17 07:31	09/26/17 19:00	1
2,4-Dichlorophenol	<370		370	89	ug/Kg	☼	09/25/17 07:31	09/26/17 19:00	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	09/25/17 07:31	09/26/17 19:00	1
2,4-Dinitrophenol	<750	*	750	660	ug/Kg	☼	09/25/17 07:31	09/26/17 19:00	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	09/25/17 07:31	09/26/17 19:00	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	09/25/17 07:31	09/26/17 19:00	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	09/25/17 07:31	09/26/17 19:00	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	09/25/17 07:31	09/26/17 19:00	1
2-Methylnaphthalene	<75		75	6.9	ug/Kg	☼	09/25/17 07:31	09/26/17 19:00	1
2-Methylphenol	<190		190	60	ug/Kg	☼	09/25/17 07:31	09/26/17 19:00	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	09/25/17 07:31	09/26/17 19:00	1
2-Nitrophenol	<370		370	88	ug/Kg	☼	09/25/17 07:31	09/26/17 19:00	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	09/25/17 07:31	09/26/17 19:00	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	09/25/17 07:31	09/26/17 19:00	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	09/25/17 07:31	09/26/17 19:00	1
4,6-Dinitro-2-methylphenol	<750		750	300	ug/Kg	☼	09/25/17 07:31	09/26/17 19:00	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	09/25/17 07:31	09/26/17 19:00	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	09/25/17 07:31	09/26/17 19:00	1
4-Chloroaniline	<750		750	180	ug/Kg	☼	09/25/17 07:31	09/26/17 19:00	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	09/25/17 07:31	09/26/17 19:00	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	09/25/17 07:31	09/26/17 19:00	1
4-Nitrophenol	<750		750	360	ug/Kg	☼	09/25/17 07:31	09/26/17 19:00	1
Acenaphthene	15	J	37	6.7	ug/Kg	☼	09/25/17 07:31	09/26/17 19:00	1
Acenaphthylene	10	J	37	4.9	ug/Kg	☼	09/25/17 07:31	09/26/17 19:00	1
Anthracene	58		37	6.2	ug/Kg	☼	09/25/17 07:31	09/26/17 19:00	1
Benzo[a]anthracene	270		37	5.0	ug/Kg	☼	09/25/17 07:31	09/26/17 19:00	1
Benzo[a]pyrene	280		37	7.2	ug/Kg	☼	09/25/17 07:31	09/26/17 19:00	1
Benzo[b]fluoranthene	460		37	8.1	ug/Kg	☼	09/25/17 07:31	09/26/17 19:00	1
Benzo[g,h,i]perylene	110		37	12	ug/Kg	☼	09/25/17 07:31	09/26/17 19:00	1
Benzo[k]fluoranthene	190		37	11	ug/Kg	☼	09/25/17 07:31	09/26/17 19:00	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	09/25/17 07:31	09/26/17 19:00	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	09/25/17 07:31	09/26/17 19:00	1
Bis(2-ethylhexyl) phthalate	<190		190	68	ug/Kg	☼	09/25/17 07:31	09/26/17 19:00	1
Butyl benzyl phthalate	<190		190	71	ug/Kg	☼	09/25/17 07:31	09/26/17 19:00	1
Carbazole	<190		190	93	ug/Kg	☼	09/25/17 07:31	09/26/17 19:00	1
Chrysene	310		37	10	ug/Kg	☼	09/25/17 07:31	09/26/17 19:00	1
Dibenz(a,h)anthracene	37		37	7.2	ug/Kg	☼	09/25/17 07:31	09/26/17 19:00	1
Dibenzofuran	<190		190	44	ug/Kg	☼	09/25/17 07:31	09/26/17 19:00	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	09/25/17 07:31	09/26/17 19:00	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	09/25/17 07:31	09/26/17 19:00	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	09/25/17 07:31	09/26/17 19:00	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	09/25/17 07:31	09/26/17 19:00	1
Fluoranthene	630		37	6.9	ug/Kg	☼	09/25/17 07:31	09/26/17 19:00	1
Fluorene	23	J	37	5.2	ug/Kg	☼	09/25/17 07:31	09/26/17 19:00	1
Hexachlorobenzene	<75		75	8.7	ug/Kg	☼	09/25/17 07:31	09/26/17 19:00	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	09/25/17 07:31	09/26/17 19:00	1
Hexachlorocyclopentadiene	<750		750	210	ug/Kg	☼	09/25/17 07:31	09/26/17 19:00	1
Hexachloroethane	<190		190	57	ug/Kg	☼	09/25/17 07:31	09/26/17 19:00	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134251-1

Client Sample ID: FH-5(0-6)-091917D

Lab Sample ID: 500-134251-9

Date Collected: 09/19/17 10:27

Matrix: Solid

Date Received: 09/19/17 16:45

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	120		37	9.7	ug/Kg	☼	09/25/17 07:31	09/26/17 19:00	1
Isophorone	<190		190	42	ug/Kg	☼	09/25/17 07:31	09/26/17 19:00	1
Naphthalene	6.4 J		37	5.7	ug/Kg	☼	09/25/17 07:31	09/26/17 19:00	1
Nitrobenzene	<37		37	9.3	ug/Kg	☼	09/25/17 07:31	09/26/17 19:00	1
N-Nitrosodi-n-propylamine	<75		75	46	ug/Kg	☼	09/25/17 07:31	09/26/17 19:00	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	09/25/17 07:31	09/26/17 19:00	1
Pentachlorophenol	<750		750	600	ug/Kg	☼	09/25/17 07:31	09/26/17 19:00	1
Phenanthrene	320		37	5.2	ug/Kg	☼	09/25/17 07:31	09/26/17 19:00	1
Phenol	<190		190	83	ug/Kg	☼	09/25/17 07:31	09/26/17 19:00	1
Pyrene	520		37	7.4	ug/Kg	☼	09/25/17 07:31	09/26/17 19:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	86		25 - 139				09/25/17 07:31	09/26/17 19:00	1
2-Fluorobiphenyl	77		44 - 121				09/25/17 07:31	09/26/17 19:00	1
2-Fluorophenol	108		46 - 133				09/25/17 07:31	09/26/17 19:00	1
Nitrobenzene-d5	77		41 - 120				09/25/17 07:31	09/26/17 19:00	1
Phenol-d5	96		46 - 125				09/25/17 07:31	09/26/17 19:00	1
Terphenyl-d14	85		35 - 160				09/25/17 07:31	09/26/17 19:00	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		09/22/17 14:46	09/25/17 19:02	1
Barium	0.33 J		0.50	0.050	mg/L		09/22/17 14:46	09/25/17 19:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/22/17 14:46	09/25/17 19:02	1
Cadmium	0.0033 J		0.0050	0.0020	mg/L		09/22/17 14:46	09/25/17 19:02	1
Chromium	<0.025		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 19:02	1
Cobalt	0.015 J		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 19:02	1
Copper	<0.025		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 19:02	1
Iron	<0.40		0.40	0.20	mg/L		09/22/17 14:46	09/25/17 19:02	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/22/17 14:46	09/25/17 19:02	1
Manganese	4.6		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 19:02	1
Nickel	0.022 J		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 19:02	1
Selenium	<0.050		0.050	0.020	mg/L		09/22/17 14:46	09/25/17 19:02	1
Silver	<0.025		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 19:02	1
Zinc	0.031 J		0.50	0.020	mg/L		09/22/17 14:46	09/25/17 19:02	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		09/21/17 16:28	09/25/17 12:37	1
Barium	0.14 J		0.50	0.050	mg/L		09/21/17 16:28	09/25/17 12:37	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/21/17 16:28	09/25/17 12:37	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/21/17 16:28	09/25/17 12:37	1
Chromium	0.017 J		0.025	0.010	mg/L		09/21/17 16:28	09/25/17 12:37	1
Cobalt	<0.025		0.025	0.010	mg/L		09/21/17 16:28	09/25/17 12:37	1
Copper	0.033		0.025	0.010	mg/L		09/21/17 16:28	09/25/17 12:37	1
Iron	14		0.40	0.20	mg/L		09/21/17 16:28	09/25/17 12:37	1
Lead	0.015		0.0075	0.0075	mg/L		09/21/17 16:28	09/25/17 12:37	1
Manganese	0.13		0.025	0.010	mg/L		09/21/17 16:28	09/25/17 12:37	1
Nickel	0.016 J		0.025	0.010	mg/L		09/21/17 16:28	09/25/17 12:37	1
Selenium	<0.050		0.050	0.020	mg/L		09/21/17 16:28	09/25/17 12:37	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134251-1

Client Sample ID: FH-5(0-6)-091917D

Lab Sample ID: 500-134251-9

Date Collected: 09/19/17 10:27

Matrix: Solid

Date Received: 09/19/17 16:45

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		09/21/17 16:28	09/25/17 12:37	1
Zinc	0.084	J	0.50	0.020	mg/L		09/21/17 16:28	09/25/17 12:37	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	☼	09/20/17 17:04	09/21/17 15:08	1
Arsenic	9.5		0.56	0.19	mg/Kg	☼	09/20/17 17:04	09/21/17 15:08	1
Barium	53		0.56	0.064	mg/Kg	☼	09/20/17 17:04	09/21/17 15:08	1
Beryllium	0.54		0.22	0.052	mg/Kg	☼	09/20/17 17:04	09/21/17 15:08	1
Cadmium	0.23		0.11	0.020	mg/Kg	☼	09/20/17 17:04	09/21/17 15:08	1
Calcium	20000	B	11	1.9	mg/Kg	☼	09/20/17 17:04	09/21/17 15:08	1
Chromium	15		0.56	0.28	mg/Kg	☼	09/20/17 17:04	09/21/17 15:08	1
Cobalt	13		0.28	0.073	mg/Kg	☼	09/20/17 17:04	09/21/17 15:08	1
Copper	26	B	0.56	0.16	mg/Kg	☼	09/20/17 17:04	09/21/17 15:08	1
Iron	18000	B	11	5.8	mg/Kg	☼	09/20/17 17:04	09/21/17 15:08	1
Lead	33		0.28	0.13	mg/Kg	☼	09/20/17 17:04	09/21/17 15:08	1
Magnesium	14000	B	5.6	2.8	mg/Kg	☼	09/20/17 17:04	09/21/17 15:08	1
Manganese	460	B	0.56	0.081	mg/Kg	☼	09/20/17 17:04	09/21/17 15:08	1
Nickel	31		0.56	0.16	mg/Kg	☼	09/20/17 17:04	09/21/17 15:08	1
Potassium	1600		28	9.9	mg/Kg	☼	09/20/17 17:04	09/21/17 15:08	1
Selenium	<0.56		0.56	0.33	mg/Kg	☼	09/20/17 17:04	09/21/17 15:08	1
Silver	<0.28		0.28	0.072	mg/Kg	☼	09/20/17 17:04	09/21/17 15:08	1
Sodium	86		56	8.3	mg/Kg	☼	09/20/17 17:04	09/21/17 15:08	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	09/20/17 17:04	09/21/17 15:08	1
Vanadium	19		0.28	0.066	mg/Kg	☼	09/20/17 17:04	09/21/17 15:08	1
Zinc	60	B	1.1	0.49	mg/Kg	☼	09/20/17 17:04	09/21/17 15:08	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		09/22/17 11:15	09/25/17 09:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		09/21/17 12:42	09/22/17 11:35	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	94	B	19	6.2	ug/Kg	☼	09/22/17 16:20	09/25/17 13:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.0		0.20	0.20	SU			09/22/17 15:00	1

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134251-1

Client Sample ID: FH-3(0-6)-091917

Lab Sample ID: 500-134251-10

Date Collected: 09/19/17 10:50

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	36		18	8.0	ug/Kg	☼	09/20/17 08:40	09/21/17 15:34	1
Benzene	<1.8		1.8	0.47	ug/Kg	☼	09/20/17 08:40	09/21/17 15:34	1
Bromodichloromethane	<1.8		1.8	0.37	ug/Kg	☼	09/20/17 08:40	09/21/17 15:34	1
Bromoform	<1.8		1.8	0.54	ug/Kg	☼	09/20/17 08:40	09/21/17 15:34	1
Bromomethane	<4.6		4.6	1.7	ug/Kg	☼	09/20/17 08:40	09/21/17 15:34	1
Carbon disulfide	<4.6		4.6	0.96	ug/Kg	☼	09/20/17 08:40	09/21/17 15:34	1
Carbon tetrachloride	<1.8		1.8	0.53	ug/Kg	☼	09/20/17 08:40	09/21/17 15:34	1
Chlorobenzene	<1.8		1.8	0.68	ug/Kg	☼	09/20/17 08:40	09/21/17 15:34	1
Chloroethane	<4.6 *		4.6	1.4	ug/Kg	☼	09/20/17 08:40	09/21/17 15:34	1
Chloroform	<1.8		1.8	0.64	ug/Kg	☼	09/20/17 08:40	09/21/17 15:34	1
Chloromethane	<4.6		4.6	1.9	ug/Kg	☼	09/20/17 08:40	09/21/17 15:34	1
cis-1,2-Dichloroethene	<1.8		1.8	0.52	ug/Kg	☼	09/20/17 08:40	09/21/17 15:34	1
cis-1,3-Dichloropropene	<1.8		1.8	0.56	ug/Kg	☼	09/20/17 08:40	09/21/17 15:34	1
Dibromochloromethane	<1.8		1.8	0.60	ug/Kg	☼	09/20/17 08:40	09/21/17 15:34	1
1,1-Dichloroethane	<1.8		1.8	0.63	ug/Kg	☼	09/20/17 08:40	09/21/17 15:34	1
1,2-Dichloroethane	<4.6		4.6	1.4	ug/Kg	☼	09/20/17 08:40	09/21/17 15:34	1
1,1-Dichloroethene	<1.8		1.8	0.63	ug/Kg	☼	09/20/17 08:40	09/21/17 15:34	1
1,2-Dichloropropane	<1.8		1.8	0.48	ug/Kg	☼	09/20/17 08:40	09/21/17 15:34	1
1,3-Dichloropropene, Total	<1.8		1.8	0.65	ug/Kg	☼	09/20/17 08:40	09/21/17 15:34	1
Ethylbenzene	<1.8		1.8	0.88	ug/Kg	☼	09/20/17 08:40	09/21/17 15:34	1
2-Hexanone	<4.6		4.6	1.4	ug/Kg	☼	09/20/17 08:40	09/21/17 15:34	1
Methylene Chloride	<4.6		4.6	1.8	ug/Kg	☼	09/20/17 08:40	09/21/17 15:34	1
Methyl Ethyl Ketone	<4.6		4.6	2.0	ug/Kg	☼	09/20/17 08:40	09/21/17 15:34	1
methyl isobutyl ketone	<4.6		4.6	1.4	ug/Kg	☼	09/20/17 08:40	09/21/17 15:34	1
Methyl tert-butyl ether	<1.8		1.8	0.54	ug/Kg	☼	09/20/17 08:40	09/21/17 15:34	1
Styrene	<1.8		1.8	0.56	ug/Kg	☼	09/20/17 08:40	09/21/17 15:34	1
1,1,2,2-Tetrachloroethane	<1.8		1.8	0.59	ug/Kg	☼	09/20/17 08:40	09/21/17 15:34	1
Tetrachloroethene	<1.8		1.8	0.63	ug/Kg	☼	09/20/17 08:40	09/21/17 15:34	1
Toluene	<1.8		1.8	0.47	ug/Kg	☼	09/20/17 08:40	09/21/17 15:34	1
trans-1,2-Dichloroethene	<1.8		1.8	0.82	ug/Kg	☼	09/20/17 08:40	09/21/17 15:34	1
trans-1,3-Dichloropropene	<1.8		1.8	0.65	ug/Kg	☼	09/20/17 08:40	09/21/17 15:34	1
1,1,1-Trichloroethane	<1.8		1.8	0.62	ug/Kg	☼	09/20/17 08:40	09/21/17 15:34	1
1,1,2-Trichloroethane	<1.8		1.8	0.79	ug/Kg	☼	09/20/17 08:40	09/21/17 15:34	1
Trichloroethene	<1.8		1.8	0.62	ug/Kg	☼	09/20/17 08:40	09/21/17 15:34	1
Vinyl chloride	<1.8		1.8	0.82	ug/Kg	☼	09/20/17 08:40	09/21/17 15:34	1
Xylenes, Total	<3.7		3.7	0.59	ug/Kg	☼	09/20/17 08:40	09/21/17 15:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		75 - 131	09/20/17 08:40	09/21/17 15:34	1
Dibromofluoromethane	100		75 - 126	09/20/17 08:40	09/21/17 15:34	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134	09/20/17 08:40	09/21/17 15:34	1
Toluene-d8 (Surr)	98		75 - 124	09/20/17 08:40	09/21/17 15:34	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	☼	09/25/17 07:31	09/26/17 19:25	1
1,2-Dichlorobenzene	<190		190	44	ug/Kg	☼	09/25/17 07:31	09/26/17 19:25	1
1,3-Dichlorobenzene	<190		190	41	ug/Kg	☼	09/25/17 07:31	09/26/17 19:25	1
1,4-Dichlorobenzene	<190		190	47	ug/Kg	☼	09/25/17 07:31	09/26/17 19:25	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	09/25/17 07:31	09/26/17 19:25	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134251-1

Client Sample ID: FH-3(0-6)-091917

Lab Sample ID: 500-134251-10

Date Collected: 09/19/17 10:50

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	84	ug/Kg	☼	09/25/17 07:31	09/26/17 19:25	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	09/25/17 07:31	09/26/17 19:25	1
2,4-Dichlorophenol	<370		370	87	ug/Kg	☼	09/25/17 07:31	09/26/17 19:25	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	09/25/17 07:31	09/26/17 19:25	1
2,4-Dinitrophenol	<740	*	740	650	ug/Kg	☼	09/25/17 07:31	09/26/17 19:25	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	09/25/17 07:31	09/26/17 19:25	1
2,6-Dinitrotoluene	<190		190	72	ug/Kg	☼	09/25/17 07:31	09/26/17 19:25	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	09/25/17 07:31	09/26/17 19:25	1
2-Chlorophenol	<190		190	63	ug/Kg	☼	09/25/17 07:31	09/26/17 19:25	1
2-Methylnaphthalene	<74		74	6.8	ug/Kg	☼	09/25/17 07:31	09/26/17 19:25	1
2-Methylphenol	<190		190	59	ug/Kg	☼	09/25/17 07:31	09/26/17 19:25	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	09/25/17 07:31	09/26/17 19:25	1
2-Nitrophenol	<370		370	87	ug/Kg	☼	09/25/17 07:31	09/26/17 19:25	1
3 & 4 Methylphenol	<190		190	61	ug/Kg	☼	09/25/17 07:31	09/26/17 19:25	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	09/25/17 07:31	09/26/17 19:25	1
3-Nitroaniline	<370		370	110	ug/Kg	☼	09/25/17 07:31	09/26/17 19:25	1
4,6-Dinitro-2-methylphenol	<740		740	300	ug/Kg	☼	09/25/17 07:31	09/26/17 19:25	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	09/25/17 07:31	09/26/17 19:25	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	09/25/17 07:31	09/26/17 19:25	1
4-Chloroaniline	<740		740	170	ug/Kg	☼	09/25/17 07:31	09/26/17 19:25	1
4-Chlorophenyl phenyl ether	<190		190	43	ug/Kg	☼	09/25/17 07:31	09/26/17 19:25	1
4-Nitroaniline	<370		370	150	ug/Kg	☼	09/25/17 07:31	09/26/17 19:25	1
4-Nitrophenol	<740		740	350	ug/Kg	☼	09/25/17 07:31	09/26/17 19:25	1
Acenaphthene	<37		37	6.6	ug/Kg	☼	09/25/17 07:31	09/26/17 19:25	1
Acenaphthylene	<37		37	4.9	ug/Kg	☼	09/25/17 07:31	09/26/17 19:25	1
Anthracene	17	J	37	6.2	ug/Kg	☼	09/25/17 07:31	09/26/17 19:25	1
Benzo[a]anthracene	73		37	5.0	ug/Kg	☼	09/25/17 07:31	09/26/17 19:25	1
Benzo[a]pyrene	82		37	7.1	ug/Kg	☼	09/25/17 07:31	09/26/17 19:25	1
Benzo[b]fluoranthene	120		37	7.9	ug/Kg	☼	09/25/17 07:31	09/26/17 19:25	1
Benzo[g,h,i]perylene	32	J	37	12	ug/Kg	☼	09/25/17 07:31	09/26/17 19:25	1
Benzo[k]fluoranthene	51		37	11	ug/Kg	☼	09/25/17 07:31	09/26/17 19:25	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	09/25/17 07:31	09/26/17 19:25	1
Bis(2-chloroethyl)ether	<190		190	55	ug/Kg	☼	09/25/17 07:31	09/26/17 19:25	1
Bis(2-ethylhexyl) phthalate	<190		190	67	ug/Kg	☼	09/25/17 07:31	09/26/17 19:25	1
Butyl benzyl phthalate	<190		190	70	ug/Kg	☼	09/25/17 07:31	09/26/17 19:25	1
Carbazole	<190		190	92	ug/Kg	☼	09/25/17 07:31	09/26/17 19:25	1
Chrysene	85		37	10	ug/Kg	☼	09/25/17 07:31	09/26/17 19:25	1
Dibenz(a,h)anthracene	14	J	37	7.1	ug/Kg	☼	09/25/17 07:31	09/26/17 19:25	1
Dibenzofuran	<190		190	43	ug/Kg	☼	09/25/17 07:31	09/26/17 19:25	1
Diethyl phthalate	<190		190	62	ug/Kg	☼	09/25/17 07:31	09/26/17 19:25	1
Dimethyl phthalate	<190		190	48	ug/Kg	☼	09/25/17 07:31	09/26/17 19:25	1
Di-n-butyl phthalate	<190		190	56	ug/Kg	☼	09/25/17 07:31	09/26/17 19:25	1
Di-n-octyl phthalate	<190		190	60	ug/Kg	☼	09/25/17 07:31	09/26/17 19:25	1
Fluoranthene	180		37	6.8	ug/Kg	☼	09/25/17 07:31	09/26/17 19:25	1
Fluorene	7.8	J	37	5.2	ug/Kg	☼	09/25/17 07:31	09/26/17 19:25	1
Hexachlorobenzene	<74		74	8.5	ug/Kg	☼	09/25/17 07:31	09/26/17 19:25	1
Hexachlorobutadiene	<190		190	58	ug/Kg	☼	09/25/17 07:31	09/26/17 19:25	1
Hexachlorocyclopentadiene	<740		740	210	ug/Kg	☼	09/25/17 07:31	09/26/17 19:25	1
Hexachloroethane	<190		190	56	ug/Kg	☼	09/25/17 07:31	09/26/17 19:25	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134251-1

Client Sample ID: FH-3(0-6)-091917

Lab Sample ID: 500-134251-10

Date Collected: 09/19/17 10:50

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	36	J	37	9.5	ug/Kg	☼	09/25/17 07:31	09/26/17 19:25	1
Isophorone	<190		190	41	ug/Kg	☼	09/25/17 07:31	09/26/17 19:25	1
Naphthalene	<37		37	5.7	ug/Kg	☼	09/25/17 07:31	09/26/17 19:25	1
Nitrobenzene	<37		37	9.2	ug/Kg	☼	09/25/17 07:31	09/26/17 19:25	1
N-Nitrosodi-n-propylamine	<74		74	45	ug/Kg	☼	09/25/17 07:31	09/26/17 19:25	1
N-Nitrosodiphenylamine	<190		190	43	ug/Kg	☼	09/25/17 07:31	09/26/17 19:25	1
Pentachlorophenol	<740		740	590	ug/Kg	☼	09/25/17 07:31	09/26/17 19:25	1
Phenanthrene	100		37	5.1	ug/Kg	☼	09/25/17 07:31	09/26/17 19:25	1
Phenol	<190		190	82	ug/Kg	☼	09/25/17 07:31	09/26/17 19:25	1
Pyrene	140		37	7.3	ug/Kg	☼	09/25/17 07:31	09/26/17 19:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	85		25 - 139				09/25/17 07:31	09/26/17 19:25	1
2-Fluorobiphenyl	75		44 - 121				09/25/17 07:31	09/26/17 19:25	1
2-Fluorophenol	98		46 - 133				09/25/17 07:31	09/26/17 19:25	1
Nitrobenzene-d5	73		41 - 120				09/25/17 07:31	09/26/17 19:25	1
Phenol-d5	91		46 - 125				09/25/17 07:31	09/26/17 19:25	1
Terphenyl-d14	85		35 - 160				09/25/17 07:31	09/26/17 19:25	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/22/17 14:46	09/25/17 19:06	1
Barium	0.27	J	0.50	0.050	mg/L		09/22/17 14:46	09/25/17 19:06	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/22/17 14:46	09/25/17 19:06	1
Cadmium	0.0027	J	0.0050	0.0020	mg/L		09/22/17 14:46	09/25/17 19:06	1
Chromium	<0.025		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 19:06	1
Cobalt	0.011	J	0.025	0.010	mg/L		09/22/17 14:46	09/25/17 19:06	1
Copper	<0.025		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 19:06	1
Iron	<0.40		0.40	0.20	mg/L		09/22/17 14:46	09/25/17 19:06	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/22/17 14:46	09/25/17 19:06	1
Manganese	4.0		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 19:06	1
Nickel	0.025		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 19:06	1
Selenium	<0.050		0.050	0.020	mg/L		09/22/17 14:46	09/25/17 19:06	1
Silver	<0.025		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 19:06	1
Zinc	<0.50		0.50	0.020	mg/L		09/22/17 14:46	09/25/17 19:06	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		09/21/17 16:28	09/25/17 12:41	1
Barium	0.13	J	0.50	0.050	mg/L		09/21/17 16:28	09/25/17 12:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/21/17 16:28	09/25/17 12:41	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/21/17 16:28	09/25/17 12:41	1
Chromium	0.011	J	0.025	0.010	mg/L		09/21/17 16:28	09/25/17 12:41	1
Cobalt	<0.025		0.025	0.010	mg/L		09/21/17 16:28	09/25/17 12:41	1
Copper	0.020	J	0.025	0.010	mg/L		09/21/17 16:28	09/25/17 12:41	1
Iron	6.9		0.40	0.20	mg/L		09/21/17 16:28	09/25/17 12:41	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/21/17 16:28	09/25/17 12:41	1
Manganese	0.13		0.025	0.010	mg/L		09/21/17 16:28	09/25/17 12:41	1
Nickel	<0.025		0.025	0.010	mg/L		09/21/17 16:28	09/25/17 12:41	1
Selenium	<0.050		0.050	0.020	mg/L		09/21/17 16:28	09/25/17 12:41	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134251-1

Client Sample ID: FH-3(0-6)-091917

Lab Sample ID: 500-134251-10

Date Collected: 09/19/17 10:50

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 85.0

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		09/21/17 16:28	09/25/17 12:41	1
Zinc	0.078	J	0.50	0.020	mg/L		09/21/17 16:28	09/25/17 12:41	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	☼	09/20/17 17:04	09/21/17 15:12	1
Arsenic	9.8		0.57	0.19	mg/Kg	☼	09/20/17 17:04	09/21/17 15:12	1
Barium	52		0.57	0.065	mg/Kg	☼	09/20/17 17:04	09/21/17 15:12	1
Beryllium	0.62		0.23	0.053	mg/Kg	☼	09/20/17 17:04	09/21/17 15:12	1
Cadmium	0.16		0.11	0.021	mg/Kg	☼	09/20/17 17:04	09/21/17 15:12	1
Calcium	15000	B	11	1.9	mg/Kg	☼	09/20/17 17:04	09/21/17 15:12	1
Chromium	17		0.57	0.28	mg/Kg	☼	09/20/17 17:04	09/21/17 15:12	1
Cobalt	13		0.29	0.075	mg/Kg	☼	09/20/17 17:04	09/21/17 15:12	1
Copper	28	B	0.57	0.16	mg/Kg	☼	09/20/17 17:04	09/21/17 15:12	1
Iron	20000	B	11	5.9	mg/Kg	☼	09/20/17 17:04	09/21/17 15:12	1
Lead	23		0.29	0.13	mg/Kg	☼	09/20/17 17:04	09/21/17 15:12	1
Magnesium	12000	B	5.7	2.8	mg/Kg	☼	09/20/17 17:04	09/21/17 15:12	1
Manganese	370	B	0.57	0.083	mg/Kg	☼	09/20/17 17:04	09/21/17 15:12	1
Nickel	31		0.57	0.17	mg/Kg	☼	09/20/17 17:04	09/21/17 15:12	1
Potassium	1900		29	10	mg/Kg	☼	09/20/17 17:04	09/21/17 15:12	1
Selenium	<0.57		0.57	0.34	mg/Kg	☼	09/20/17 17:04	09/21/17 15:12	1
Silver	<0.29		0.29	0.074	mg/Kg	☼	09/20/17 17:04	09/21/17 15:12	1
Sodium	89		57	8.4	mg/Kg	☼	09/20/17 17:04	09/21/17 15:12	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	09/20/17 17:04	09/21/17 15:12	1
Vanadium	21		0.29	0.067	mg/Kg	☼	09/20/17 17:04	09/21/17 15:12	1
Zinc	57	B	1.1	0.50	mg/Kg	☼	09/20/17 17:04	09/21/17 15:12	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		09/22/17 11:15	09/25/17 09:17	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		09/21/17 12:42	09/22/17 11:36	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	42	B	18	6.0	ug/Kg	☼	09/22/17 16:20	09/25/17 13:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.1		0.20	0.20	SU			09/22/17 15:05	1

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134251-1

Client Sample ID: FH-19(0-6)-091917

Lab Sample ID: 500-134251-11

Date Collected: 09/19/17 11:20

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 83.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	41		21	9.1	ug/Kg	☼	09/20/17 08:40	09/21/17 15:59	1
Benzene	<2.1		2.1	0.53	ug/Kg	☼	09/20/17 08:40	09/21/17 15:59	1
Bromodichloromethane	<2.1		2.1	0.42	ug/Kg	☼	09/20/17 08:40	09/21/17 15:59	1
Bromoform	<2.1		2.1	0.61	ug/Kg	☼	09/20/17 08:40	09/21/17 15:59	1
Bromomethane	<5.2		5.2	2.0	ug/Kg	☼	09/20/17 08:40	09/21/17 15:59	1
Carbon disulfide	<5.2		5.2	1.1	ug/Kg	☼	09/20/17 08:40	09/21/17 15:59	1
Carbon tetrachloride	<2.1		2.1	0.60	ug/Kg	☼	09/20/17 08:40	09/21/17 15:59	1
Chlorobenzene	<2.1		2.1	0.77	ug/Kg	☼	09/20/17 08:40	09/21/17 15:59	1
Chloroethane	<5.2 *		5.2	1.5	ug/Kg	☼	09/20/17 08:40	09/21/17 15:59	1
Chloroform	<2.1		2.1	0.72	ug/Kg	☼	09/20/17 08:40	09/21/17 15:59	1
Chloromethane	<5.2		5.2	2.1	ug/Kg	☼	09/20/17 08:40	09/21/17 15:59	1
cis-1,2-Dichloroethene	<2.1		2.1	0.58	ug/Kg	☼	09/20/17 08:40	09/21/17 15:59	1
cis-1,3-Dichloropropene	<2.1		2.1	0.63	ug/Kg	☼	09/20/17 08:40	09/21/17 15:59	1
Dibromochloromethane	<2.1		2.1	0.68	ug/Kg	☼	09/20/17 08:40	09/21/17 15:59	1
1,1-Dichloroethane	<2.1		2.1	0.71	ug/Kg	☼	09/20/17 08:40	09/21/17 15:59	1
1,2-Dichloroethane	<5.2		5.2	1.6	ug/Kg	☼	09/20/17 08:40	09/21/17 15:59	1
1,1-Dichloroethene	<2.1		2.1	0.72	ug/Kg	☼	09/20/17 08:40	09/21/17 15:59	1
1,2-Dichloropropane	<2.1		2.1	0.54	ug/Kg	☼	09/20/17 08:40	09/21/17 15:59	1
1,3-Dichloropropene, Total	<2.1		2.1	0.73	ug/Kg	☼	09/20/17 08:40	09/21/17 15:59	1
Ethylbenzene	<2.1		2.1	1.0	ug/Kg	☼	09/20/17 08:40	09/21/17 15:59	1
2-Hexanone	<5.2		5.2	1.6	ug/Kg	☼	09/20/17 08:40	09/21/17 15:59	1
Methylene Chloride	<5.2		5.2	2.1	ug/Kg	☼	09/20/17 08:40	09/21/17 15:59	1
Methyl Ethyl Ketone	<5.2		5.2	2.3	ug/Kg	☼	09/20/17 08:40	09/21/17 15:59	1
methyl isobutyl ketone	<5.2		5.2	1.5	ug/Kg	☼	09/20/17 08:40	09/21/17 15:59	1
Methyl tert-butyl ether	<2.1		2.1	0.61	ug/Kg	☼	09/20/17 08:40	09/21/17 15:59	1
Styrene	<2.1		2.1	0.63	ug/Kg	☼	09/20/17 08:40	09/21/17 15:59	1
1,1,2,2-Tetrachloroethane	<2.1		2.1	0.67	ug/Kg	☼	09/20/17 08:40	09/21/17 15:59	1
Tetrachloroethene	<2.1		2.1	0.71	ug/Kg	☼	09/20/17 08:40	09/21/17 15:59	1
Toluene	<2.1		2.1	0.53	ug/Kg	☼	09/20/17 08:40	09/21/17 15:59	1
trans-1,2-Dichloroethene	<2.1		2.1	0.92	ug/Kg	☼	09/20/17 08:40	09/21/17 15:59	1
trans-1,3-Dichloropropene	<2.1		2.1	0.73	ug/Kg	☼	09/20/17 08:40	09/21/17 15:59	1
1,1,1-Trichloroethane	<2.1		2.1	0.70	ug/Kg	☼	09/20/17 08:40	09/21/17 15:59	1
1,1,2-Trichloroethane	<2.1		2.1	0.89	ug/Kg	☼	09/20/17 08:40	09/21/17 15:59	1
Trichloroethene	<2.1		2.1	0.70	ug/Kg	☼	09/20/17 08:40	09/21/17 15:59	1
Vinyl chloride	<2.1		2.1	0.92	ug/Kg	☼	09/20/17 08:40	09/21/17 15:59	1
Xylenes, Total	<4.2		4.2	0.67	ug/Kg	☼	09/20/17 08:40	09/21/17 15:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		75 - 131	09/20/17 08:40	09/21/17 15:59	1
Dibromofluoromethane	101		75 - 126	09/20/17 08:40	09/21/17 15:59	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134	09/20/17 08:40	09/21/17 15:59	1
Toluene-d8 (Surr)	105		75 - 124	09/20/17 08:40	09/21/17 15:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	40	ug/Kg	☼	09/25/17 07:31	09/26/17 19:50	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	09/25/17 07:31	09/26/17 19:50	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	09/25/17 07:31	09/26/17 19:50	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	09/25/17 07:31	09/26/17 19:50	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	09/25/17 07:31	09/26/17 19:50	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134251-1

Client Sample ID: FH-19(0-6)-091917

Lab Sample ID: 500-134251-11

Date Collected: 09/19/17 11:20

Matrix: Solid

Date Received: 09/19/17 16:45

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	<370		370	86	ug/Kg	☼	09/25/17 07:31	09/26/17 19:50	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	09/25/17 07:31	09/26/17 19:50	1
2,4-Dichlorophenol	<370		370	89	ug/Kg	☼	09/25/17 07:31	09/26/17 19:50	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	09/25/17 07:31	09/26/17 19:50	1
2,4-Dinitrophenol	<760	*	760	660	ug/Kg	☼	09/25/17 07:31	09/26/17 19:50	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	09/25/17 07:31	09/26/17 19:50	1
2,6-Dinitrotoluene	<190		190	74	ug/Kg	☼	09/25/17 07:31	09/26/17 19:50	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	09/25/17 07:31	09/26/17 19:50	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	09/25/17 07:31	09/26/17 19:50	1
2-Methylnaphthalene	<76		76	6.9	ug/Kg	☼	09/25/17 07:31	09/26/17 19:50	1
2-Methylphenol	<190		190	60	ug/Kg	☼	09/25/17 07:31	09/26/17 19:50	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	09/25/17 07:31	09/26/17 19:50	1
2-Nitrophenol	<370		370	89	ug/Kg	☼	09/25/17 07:31	09/26/17 19:50	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	09/25/17 07:31	09/26/17 19:50	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	09/25/17 07:31	09/26/17 19:50	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	09/25/17 07:31	09/26/17 19:50	1
4,6-Dinitro-2-methylphenol	<760		760	300	ug/Kg	☼	09/25/17 07:31	09/26/17 19:50	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	09/25/17 07:31	09/26/17 19:50	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	09/25/17 07:31	09/26/17 19:50	1
4-Chloroaniline	<760		760	180	ug/Kg	☼	09/25/17 07:31	09/26/17 19:50	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	09/25/17 07:31	09/26/17 19:50	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	09/25/17 07:31	09/26/17 19:50	1
4-Nitrophenol	<760		760	360	ug/Kg	☼	09/25/17 07:31	09/26/17 19:50	1
Acenaphthene	<37		37	6.7	ug/Kg	☼	09/25/17 07:31	09/26/17 19:50	1
Acenaphthylene	<37		37	4.9	ug/Kg	☼	09/25/17 07:31	09/26/17 19:50	1
Anthracene	13	J	37	6.3	ug/Kg	☼	09/25/17 07:31	09/26/17 19:50	1
Benzo[a]anthracene	55		37	5.0	ug/Kg	☼	09/25/17 07:31	09/26/17 19:50	1
Benzo[a]pyrene	70		37	7.3	ug/Kg	☼	09/25/17 07:31	09/26/17 19:50	1
Benzo[b]fluoranthene	110		37	8.1	ug/Kg	☼	09/25/17 07:31	09/26/17 19:50	1
Benzo[g,h,i]perylene	32	J	37	12	ug/Kg	☼	09/25/17 07:31	09/26/17 19:50	1
Benzo[k]fluoranthene	50		37	11	ug/Kg	☼	09/25/17 07:31	09/26/17 19:50	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	09/25/17 07:31	09/26/17 19:50	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	09/25/17 07:31	09/26/17 19:50	1
Bis(2-ethylhexyl) phthalate	<190		190	69	ug/Kg	☼	09/25/17 07:31	09/26/17 19:50	1
Butyl benzyl phthalate	<190		190	71	ug/Kg	☼	09/25/17 07:31	09/26/17 19:50	1
Carbazole	<190		190	94	ug/Kg	☼	09/25/17 07:31	09/26/17 19:50	1
Chrysene	71		37	10	ug/Kg	☼	09/25/17 07:31	09/26/17 19:50	1
Dibenz(a,h)anthracene	<37		37	7.2	ug/Kg	☼	09/25/17 07:31	09/26/17 19:50	1
Dibenzofuran	<190		190	44	ug/Kg	☼	09/25/17 07:31	09/26/17 19:50	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	09/25/17 07:31	09/26/17 19:50	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	09/25/17 07:31	09/26/17 19:50	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	09/25/17 07:31	09/26/17 19:50	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	09/25/17 07:31	09/26/17 19:50	1
Fluoranthene	140		37	7.0	ug/Kg	☼	09/25/17 07:31	09/26/17 19:50	1
Fluorene	<37		37	5.3	ug/Kg	☼	09/25/17 07:31	09/26/17 19:50	1
Hexachlorobenzene	<76		76	8.7	ug/Kg	☼	09/25/17 07:31	09/26/17 19:50	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	09/25/17 07:31	09/26/17 19:50	1
Hexachlorocyclopentadiene	<760		760	220	ug/Kg	☼	09/25/17 07:31	09/26/17 19:50	1
Hexachloroethane	<190		190	57	ug/Kg	☼	09/25/17 07:31	09/26/17 19:50	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134251-1

Client Sample ID: FH-19(0-6)-091917

Lab Sample ID: 500-134251-11

Date Collected: 09/19/17 11:20

Matrix: Solid

Date Received: 09/19/17 16:45

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	35	J	37	9.7	ug/Kg	☼	09/25/17 07:31	09/26/17 19:50	1
Isophorone	<190		190	42	ug/Kg	☼	09/25/17 07:31	09/26/17 19:50	1
Naphthalene	<37		37	5.8	ug/Kg	☼	09/25/17 07:31	09/26/17 19:50	1
Nitrobenzene	<37		37	9.4	ug/Kg	☼	09/25/17 07:31	09/26/17 19:50	1
N-Nitrosodi-n-propylamine	<76		76	46	ug/Kg	☼	09/25/17 07:31	09/26/17 19:50	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	09/25/17 07:31	09/26/17 19:50	1
Pentachlorophenol	<760		760	600	ug/Kg	☼	09/25/17 07:31	09/26/17 19:50	1
Phenanthrene	68		37	5.2	ug/Kg	☼	09/25/17 07:31	09/26/17 19:50	1
Phenol	<190		190	83	ug/Kg	☼	09/25/17 07:31	09/26/17 19:50	1
Pyrene	110		37	7.5	ug/Kg	☼	09/25/17 07:31	09/26/17 19:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>2,4,6-Tribromophenol</i>	81		25 - 139				09/25/17 07:31	09/26/17 19:50	1
<i>2-Fluorobiphenyl</i>	78		44 - 121				09/25/17 07:31	09/26/17 19:50	1
<i>2-Fluorophenol</i>	94		46 - 133				09/25/17 07:31	09/26/17 19:50	1
<i>Nitrobenzene-d5</i>	71		41 - 120				09/25/17 07:31	09/26/17 19:50	1
<i>Phenol-d5</i>	88		46 - 125				09/25/17 07:31	09/26/17 19:50	1
<i>Terphenyl-d14</i>	80		35 - 160				09/25/17 07:31	09/26/17 19:50	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/22/17 14:46	09/25/17 19:10	1
Barium	0.44	J	0.50	0.050	mg/L		09/22/17 14:46	09/25/17 19:10	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/22/17 14:46	09/25/17 19:10	1
Cadmium	0.0030	J	0.0050	0.0020	mg/L		09/22/17 14:46	09/25/17 19:10	1
Chromium	<0.025		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 19:10	1
Cobalt	0.028		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 19:10	1
Copper	<0.025		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 19:10	1
Iron	<0.40		0.40	0.20	mg/L		09/22/17 14:46	09/25/17 19:10	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/22/17 14:46	09/25/17 19:10	1
Manganese	7.1		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 19:10	1
Nickel	0.024	J	0.025	0.010	mg/L		09/22/17 14:46	09/25/17 19:10	1
Selenium	<0.050		0.050	0.020	mg/L		09/22/17 14:46	09/25/17 19:10	1
Silver	<0.025		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 19:10	1
Zinc	0.022	J	0.50	0.020	mg/L		09/22/17 14:46	09/25/17 19:10	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		09/21/17 16:28	09/25/17 12:44	1
Barium	0.11	J	0.50	0.050	mg/L		09/21/17 16:28	09/25/17 12:44	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/21/17 16:28	09/25/17 12:44	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/21/17 16:28	09/25/17 12:44	1
Chromium	<0.025		0.025	0.010	mg/L		09/21/17 16:28	09/25/17 12:44	1
Cobalt	<0.025		0.025	0.010	mg/L		09/21/17 16:28	09/25/17 12:44	1
Copper	0.021	J	0.025	0.010	mg/L		09/21/17 16:28	09/25/17 12:44	1
Iron	5.7		0.40	0.20	mg/L		09/21/17 16:28	09/25/17 12:44	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/21/17 16:28	09/25/17 12:44	1
Manganese	0.082		0.025	0.010	mg/L		09/21/17 16:28	09/25/17 12:44	1
Nickel	<0.025		0.025	0.010	mg/L		09/21/17 16:28	09/25/17 12:44	1
Selenium	<0.050		0.050	0.020	mg/L		09/21/17 16:28	09/25/17 12:44	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134251-1

Client Sample ID: FH-19(0-6)-091917

Lab Sample ID: 500-134251-11

Date Collected: 09/19/17 11:20

Matrix: Solid

Date Received: 09/19/17 16:45

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		09/21/17 16:28	09/25/17 12:44	1
Zinc	0.060	J	0.50	0.020	mg/L		09/21/17 16:28	09/25/17 12:44	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.23	mg/Kg	☼	09/20/17 17:04	09/21/17 15:15	1
Arsenic	9.4		0.59	0.20	mg/Kg	☼	09/20/17 17:04	09/21/17 15:15	1
Barium	71		0.59	0.068	mg/Kg	☼	09/20/17 17:04	09/21/17 15:15	1
Beryllium	0.64		0.24	0.056	mg/Kg	☼	09/20/17 17:04	09/21/17 15:15	1
Cadmium	0.25		0.12	0.021	mg/Kg	☼	09/20/17 17:04	09/21/17 15:15	1
Calcium	21000	B	12	2.0	mg/Kg	☼	09/20/17 17:04	09/21/17 15:15	1
Chromium	17		0.59	0.29	mg/Kg	☼	09/20/17 17:04	09/21/17 15:15	1
Cobalt	14		0.30	0.078	mg/Kg	☼	09/20/17 17:04	09/21/17 15:15	1
Copper	29	B	0.59	0.17	mg/Kg	☼	09/20/17 17:04	09/21/17 15:15	1
Iron	19000	B	12	6.2	mg/Kg	☼	09/20/17 17:04	09/21/17 15:15	1
Lead	33		0.30	0.14	mg/Kg	☼	09/20/17 17:04	09/21/17 15:15	1
Magnesium	14000	B	5.9	2.9	mg/Kg	☼	09/20/17 17:04	09/21/17 15:15	1
Manganese	430	B	0.59	0.086	mg/Kg	☼	09/20/17 17:04	09/21/17 15:15	1
Nickel	33		0.59	0.17	mg/Kg	☼	09/20/17 17:04	09/21/17 15:15	1
Potassium	1900		30	11	mg/Kg	☼	09/20/17 17:04	09/21/17 15:15	1
Selenium	0.76		0.59	0.35	mg/Kg	☼	09/20/17 17:04	09/21/17 15:15	1
Silver	<0.30		0.30	0.077	mg/Kg	☼	09/20/17 17:04	09/21/17 15:15	1
Sodium	88		59	8.8	mg/Kg	☼	09/20/17 17:04	09/21/17 15:15	1
Thallium	0.43	J	0.59	0.30	mg/Kg	☼	09/20/17 17:04	09/21/17 15:15	1
Vanadium	21		0.30	0.070	mg/Kg	☼	09/20/17 17:04	09/21/17 15:15	1
Zinc	67	B	1.2	0.52	mg/Kg	☼	09/20/17 17:04	09/21/17 15:15	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		09/22/17 11:15	09/25/17 09:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		09/21/17 12:42	09/22/17 11:38	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	60	B	19	6.3	ug/Kg	☼	09/22/17 16:20	09/25/17 13:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.1		0.20	0.20	SU			09/22/17 15:09	1

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134251-1

Client Sample ID: FH-19(6-12)-091917

Lab Sample ID: 500-134251-12

Date Collected: 09/19/17 11:27

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 81.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	21		17	7.4	ug/Kg	☼	09/20/17 08:40	09/21/17 16:24	1
Benzene	<1.7		1.7	0.44	ug/Kg	☼	09/20/17 08:40	09/21/17 16:24	1
Bromodichloromethane	<1.7		1.7	0.35	ug/Kg	☼	09/20/17 08:40	09/21/17 16:24	1
Bromoform	<1.7		1.7	0.50	ug/Kg	☼	09/20/17 08:40	09/21/17 16:24	1
Bromomethane	<4.3		4.3	1.6	ug/Kg	☼	09/20/17 08:40	09/21/17 16:24	1
Carbon disulfide	<4.3		4.3	0.89	ug/Kg	☼	09/20/17 08:40	09/21/17 16:24	1
Carbon tetrachloride	<1.7		1.7	0.50	ug/Kg	☼	09/20/17 08:40	09/21/17 16:24	1
Chlorobenzene	<1.7		1.7	0.63	ug/Kg	☼	09/20/17 08:40	09/21/17 16:24	1
Chloroethane	<4.3 *		4.3	1.3	ug/Kg	☼	09/20/17 08:40	09/21/17 16:24	1
Chloroform	<1.7		1.7	0.59	ug/Kg	☼	09/20/17 08:40	09/21/17 16:24	1
Chloromethane	<4.3		4.3	1.7	ug/Kg	☼	09/20/17 08:40	09/21/17 16:24	1
cis-1,2-Dichloroethene	<1.7		1.7	0.48	ug/Kg	☼	09/20/17 08:40	09/21/17 16:24	1
cis-1,3-Dichloropropene	<1.7		1.7	0.52	ug/Kg	☼	09/20/17 08:40	09/21/17 16:24	1
Dibromochloromethane	<1.7		1.7	0.56	ug/Kg	☼	09/20/17 08:40	09/21/17 16:24	1
1,1-Dichloroethane	<1.7		1.7	0.59	ug/Kg	☼	09/20/17 08:40	09/21/17 16:24	1
1,2-Dichloroethane	<4.3		4.3	1.3	ug/Kg	☼	09/20/17 08:40	09/21/17 16:24	1
1,1-Dichloroethene	<1.7		1.7	0.59	ug/Kg	☼	09/20/17 08:40	09/21/17 16:24	1
1,2-Dichloropropane	<1.7		1.7	0.44	ug/Kg	☼	09/20/17 08:40	09/21/17 16:24	1
1,3-Dichloropropene, Total	<1.7		1.7	0.60	ug/Kg	☼	09/20/17 08:40	09/21/17 16:24	1
Ethylbenzene	<1.7		1.7	0.82	ug/Kg	☼	09/20/17 08:40	09/21/17 16:24	1
2-Hexanone	<4.3		4.3	1.3	ug/Kg	☼	09/20/17 08:40	09/21/17 16:24	1
Methylene Chloride	<4.3		4.3	1.7	ug/Kg	☼	09/20/17 08:40	09/21/17 16:24	1
Methyl Ethyl Ketone	<4.3		4.3	1.9	ug/Kg	☼	09/20/17 08:40	09/21/17 16:24	1
methyl isobutyl ketone	<4.3		4.3	1.3	ug/Kg	☼	09/20/17 08:40	09/21/17 16:24	1
Methyl tert-butyl ether	<1.7		1.7	0.50	ug/Kg	☼	09/20/17 08:40	09/21/17 16:24	1
Styrene	<1.7		1.7	0.52	ug/Kg	☼	09/20/17 08:40	09/21/17 16:24	1
1,1,2,2-Tetrachloroethane	<1.7		1.7	0.55	ug/Kg	☼	09/20/17 08:40	09/21/17 16:24	1
Tetrachloroethene	<1.7		1.7	0.58	ug/Kg	☼	09/20/17 08:40	09/21/17 16:24	1
Toluene	<1.7		1.7	0.43	ug/Kg	☼	09/20/17 08:40	09/21/17 16:24	1
trans-1,2-Dichloroethene	<1.7		1.7	0.76	ug/Kg	☼	09/20/17 08:40	09/21/17 16:24	1
trans-1,3-Dichloropropene	<1.7		1.7	0.60	ug/Kg	☼	09/20/17 08:40	09/21/17 16:24	1
1,1,1-Trichloroethane	<1.7		1.7	0.57	ug/Kg	☼	09/20/17 08:40	09/21/17 16:24	1
1,1,2-Trichloroethane	<1.7		1.7	0.73	ug/Kg	☼	09/20/17 08:40	09/21/17 16:24	1
Trichloroethene	<1.7		1.7	0.58	ug/Kg	☼	09/20/17 08:40	09/21/17 16:24	1
Vinyl chloride	<1.7		1.7	0.76	ug/Kg	☼	09/20/17 08:40	09/21/17 16:24	1
Xylenes, Total	<3.4		3.4	0.55	ug/Kg	☼	09/20/17 08:40	09/21/17 16:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		75 - 131	09/20/17 08:40	09/21/17 16:24	1
Dibromofluoromethane	101		75 - 126	09/20/17 08:40	09/21/17 16:24	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	09/20/17 08:40	09/21/17 16:24	1
Toluene-d8 (Surr)	100		75 - 124	09/20/17 08:40	09/21/17 16:24	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	☼	09/25/17 08:49	09/27/17 11:32	1
1,2-Dichlorobenzene	<200		200	47	ug/Kg	☼	09/25/17 08:49	09/27/17 11:32	1
1,3-Dichlorobenzene	<200		200	44	ug/Kg	☼	09/25/17 08:49	09/27/17 11:32	1
1,4-Dichlorobenzene	<200		200	51	ug/Kg	☼	09/25/17 08:49	09/27/17 11:32	1
2,2'-oxybis[1-chloropropane]	<200		200	46	ug/Kg	☼	09/25/17 08:49	09/27/17 11:32	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134251-1

Client Sample ID: FH-19(6-12)-091917

Lab Sample ID: 500-134251-12

Date Collected: 09/19/17 11:27

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 81.5

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	☼	09/25/17 08:49	09/27/17 11:32	1
2,4,6-Trichlorophenol	<390		390	140	ug/Kg	☼	09/25/17 08:49	09/27/17 11:32	1
2,4-Dichlorophenol	<390		390	94	ug/Kg	☼	09/25/17 08:49	09/27/17 11:32	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	09/25/17 08:49	09/27/17 11:32	1
2,4-Dinitrophenol	<800	F1	800	690	ug/Kg	☼	09/25/17 08:49	09/27/17 11:32	1
2,4-Dinitrotoluene	<200		200	63	ug/Kg	☼	09/25/17 08:49	09/27/17 11:32	1
2,6-Dinitrotoluene	<200		200	78	ug/Kg	☼	09/25/17 08:49	09/27/17 11:32	1
2-Chloronaphthalene	<200		200	44	ug/Kg	☼	09/25/17 08:49	09/27/17 11:32	1
2-Chlorophenol	<200		200	67	ug/Kg	☼	09/25/17 08:49	09/27/17 11:32	1
2-Methylnaphthalene	<80		80	7.3	ug/Kg	☼	09/25/17 08:49	09/27/17 11:32	1
2-Methylphenol	<200		200	63	ug/Kg	☼	09/25/17 08:49	09/27/17 11:32	1
2-Nitroaniline	<200		200	53	ug/Kg	☼	09/25/17 08:49	09/27/17 11:32	1
2-Nitrophenol	<390		390	93	ug/Kg	☼	09/25/17 08:49	09/27/17 11:32	1
3 & 4 Methylphenol	<200		200	66	ug/Kg	☼	09/25/17 08:49	09/27/17 11:32	1
3,3'-Dichlorobenzidine	<200		200	55	ug/Kg	☼	09/25/17 08:49	09/27/17 11:32	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	09/25/17 08:49	09/27/17 11:32	1
4,6-Dinitro-2-methylphenol	<800	F1	800	320	ug/Kg	☼	09/25/17 08:49	09/27/17 11:32	1
4-Bromophenyl phenyl ether	<200		200	52	ug/Kg	☼	09/25/17 08:49	09/27/17 11:32	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	09/25/17 08:49	09/27/17 11:32	1
4-Chloroaniline	<800		800	190	ug/Kg	☼	09/25/17 08:49	09/27/17 11:32	1
4-Chlorophenyl phenyl ether	<200		200	46	ug/Kg	☼	09/25/17 08:49	09/27/17 11:32	1
4-Nitroaniline	<390		390	170	ug/Kg	☼	09/25/17 08:49	09/27/17 11:32	1
4-Nitrophenol	<800		800	380	ug/Kg	☼	09/25/17 08:49	09/27/17 11:32	1
Acenaphthene	<39		39	7.1	ug/Kg	☼	09/25/17 08:49	09/27/17 11:32	1
Acenaphthylene	<39		39	5.2	ug/Kg	☼	09/25/17 08:49	09/27/17 11:32	1
Anthracene	8.2	J	39	6.6	ug/Kg	☼	09/25/17 08:49	09/27/17 11:32	1
Benzo[a]anthracene	48		39	5.3	ug/Kg	☼	09/25/17 08:49	09/27/17 11:32	1
Benzo[a]pyrene	59		39	7.6	ug/Kg	☼	09/25/17 08:49	09/27/17 11:32	1
Benzo[b]fluoranthene	99		39	8.5	ug/Kg	☼	09/25/17 08:49	09/27/17 11:32	1
Benzo[g,h,i]perylene	50	F1	39	13	ug/Kg	☼	09/25/17 08:49	09/27/17 11:32	1
Benzo[k]fluoranthene	42		39	12	ug/Kg	☼	09/25/17 08:49	09/27/17 11:32	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	☼	09/25/17 08:49	09/27/17 11:32	1
Bis(2-chloroethyl)ether	<200	F1	200	59	ug/Kg	☼	09/25/17 08:49	09/27/17 11:32	1
Bis(2-ethylhexyl) phthalate	<200		200	72	ug/Kg	☼	09/25/17 08:49	09/27/17 11:32	1
Butyl benzyl phthalate	<200		200	75	ug/Kg	☼	09/25/17 08:49	09/27/17 11:32	1
Carbazole	<200		200	99	ug/Kg	☼	09/25/17 08:49	09/27/17 11:32	1
Chrysene	57		39	11	ug/Kg	☼	09/25/17 08:49	09/27/17 11:32	1
Dibenz(a,h)anthracene	16	J F1	39	7.6	ug/Kg	☼	09/25/17 08:49	09/27/17 11:32	1
Dibenzofuran	<200		200	46	ug/Kg	☼	09/25/17 08:49	09/27/17 11:32	1
Diethyl phthalate	<200		200	67	ug/Kg	☼	09/25/17 08:49	09/27/17 11:32	1
Dimethyl phthalate	<200		200	52	ug/Kg	☼	09/25/17 08:49	09/27/17 11:32	1
Di-n-butyl phthalate	<200		200	60	ug/Kg	☼	09/25/17 08:49	09/27/17 11:32	1
Di-n-octyl phthalate	<200		200	64	ug/Kg	☼	09/25/17 08:49	09/27/17 11:32	1
Fluoranthene	100		39	7.3	ug/Kg	☼	09/25/17 08:49	09/27/17 11:32	1
Fluorene	<39		39	5.5	ug/Kg	☼	09/25/17 08:49	09/27/17 11:32	1
Hexachlorobenzene	<80		80	9.1	ug/Kg	☼	09/25/17 08:49	09/27/17 11:32	1
Hexachlorobutadiene	<200		200	62	ug/Kg	☼	09/25/17 08:49	09/27/17 11:32	1
Hexachlorocyclopentadiene	<800	F1	800	230	ug/Kg	☼	09/25/17 08:49	09/27/17 11:32	1
Hexachloroethane	<200	F1	200	60	ug/Kg	☼	09/25/17 08:49	09/27/17 11:32	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134251-1

Client Sample ID: FH-19(6-12)-091917

Lab Sample ID: 500-134251-12

Date Collected: 09/19/17 11:27

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 81.5

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	44		39	10	ug/Kg	☼	09/25/17 08:49	09/27/17 11:32	1
Isophorone	<200		200	44	ug/Kg	☼	09/25/17 08:49	09/27/17 11:32	1
Naphthalene	<39		39	6.1	ug/Kg	☼	09/25/17 08:49	09/27/17 11:32	1
Nitrobenzene	<39		39	9.8	ug/Kg	☼	09/25/17 08:49	09/27/17 11:32	1
N-Nitrosodi-n-propylamine	<80		80	48	ug/Kg	☼	09/25/17 08:49	09/27/17 11:32	1
N-Nitrosodiphenylamine	<200		200	47	ug/Kg	☼	09/25/17 08:49	09/27/17 11:32	1
Pentachlorophenol	<800	F1	800	630	ug/Kg	☼	09/25/17 08:49	09/27/17 11:32	1
Phenanthrene	41		39	5.5	ug/Kg	☼	09/25/17 08:49	09/27/17 11:32	1
Phenol	<200		200	88	ug/Kg	☼	09/25/17 08:49	09/27/17 11:32	1
Pyrene	92		39	7.8	ug/Kg	☼	09/25/17 08:49	09/27/17 11:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	61		25 - 139				09/25/17 08:49	09/27/17 11:32	1
2-Fluorobiphenyl	75		44 - 121				09/25/17 08:49	09/27/17 11:32	1
2-Fluorophenol	103		46 - 133				09/25/17 08:49	09/27/17 11:32	1
Nitrobenzene-d5	76		41 - 120				09/25/17 08:49	09/27/17 11:32	1
Phenol-d5	98		46 - 125				09/25/17 08:49	09/27/17 11:32	1
Terphenyl-d14	90		35 - 160				09/25/17 08:49	09/27/17 11:32	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		09/22/17 14:46	09/25/17 19:14	1
Barium	0.45	J	0.50	0.050	mg/L		09/22/17 14:46	09/25/17 19:14	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/22/17 14:46	09/25/17 19:14	1
Cadmium	0.0033	J	0.0050	0.0020	mg/L		09/22/17 14:46	09/25/17 19:14	1
Chromium	<0.025		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 19:14	1
Cobalt	0.030		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 19:14	1
Copper	<0.025		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 19:14	1
Iron	<0.40		0.40	0.20	mg/L		09/22/17 14:46	09/25/17 19:14	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/22/17 14:46	09/25/17 19:14	1
Manganese	9.2		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 19:14	1
Nickel	0.027		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 19:14	1
Selenium	<0.050		0.050	0.020	mg/L		09/22/17 14:46	09/25/17 19:14	1
Silver	<0.025		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 19:14	1
Zinc	<0.50		0.50	0.020	mg/L		09/22/17 14:46	09/25/17 19:14	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		09/21/17 16:28	09/25/17 12:48	1
Barium	0.097	J	0.50	0.050	mg/L		09/21/17 16:28	09/25/17 12:48	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/21/17 16:28	09/25/17 12:48	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/21/17 16:28	09/25/17 12:48	1
Chromium	<0.025		0.025	0.010	mg/L		09/21/17 16:28	09/25/17 12:48	1
Cobalt	<0.025		0.025	0.010	mg/L		09/21/17 16:28	09/25/17 12:48	1
Copper	0.018	J	0.025	0.010	mg/L		09/21/17 16:28	09/25/17 12:48	1
Iron	2.8		0.40	0.20	mg/L		09/21/17 16:28	09/25/17 12:48	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/21/17 16:28	09/25/17 12:48	1
Manganese	0.093		0.025	0.010	mg/L		09/21/17 16:28	09/25/17 12:48	1
Nickel	<0.025		0.025	0.010	mg/L		09/21/17 16:28	09/25/17 12:48	1
Selenium	<0.050		0.050	0.020	mg/L		09/21/17 16:28	09/25/17 12:48	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134251-1

Client Sample ID: FH-19(6-12)-091917

Lab Sample ID: 500-134251-12

Date Collected: 09/19/17 11:27

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 81.5

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		09/21/17 16:28	09/25/17 12:48	1
Zinc	0.058	J	0.50	0.020	mg/L		09/21/17 16:28	09/25/17 12:48	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.22	mg/Kg	☼	09/20/17 17:04	09/21/17 15:19	1
Arsenic	10		0.58	0.20	mg/Kg	☼	09/20/17 17:04	09/21/17 15:19	1
Barium	62		0.58	0.066	mg/Kg	☼	09/20/17 17:04	09/21/17 15:19	1
Beryllium	0.69		0.23	0.054	mg/Kg	☼	09/20/17 17:04	09/21/17 15:19	1
Cadmium	0.20		0.12	0.021	mg/Kg	☼	09/20/17 17:04	09/21/17 15:19	1
Calcium	25000	B	12	2.0	mg/Kg	☼	09/20/17 17:04	09/21/17 15:19	1
Chromium	17		0.58	0.29	mg/Kg	☼	09/20/17 17:04	09/21/17 15:19	1
Cobalt	14		0.29	0.076	mg/Kg	☼	09/20/17 17:04	09/21/17 15:19	1
Copper	32	B	0.58	0.16	mg/Kg	☼	09/20/17 17:04	09/21/17 15:19	1
Iron	20000	B	12	6.0	mg/Kg	☼	09/20/17 17:04	09/21/17 15:19	1
Lead	29		0.29	0.13	mg/Kg	☼	09/20/17 17:04	09/21/17 15:19	1
Magnesium	16000	B	5.8	2.9	mg/Kg	☼	09/20/17 17:04	09/21/17 15:19	1
Manganese	360	B	0.58	0.084	mg/Kg	☼	09/20/17 17:04	09/21/17 15:19	1
Nickel	34		0.58	0.17	mg/Kg	☼	09/20/17 17:04	09/21/17 15:19	1
Potassium	2000		29	10	mg/Kg	☼	09/20/17 17:04	09/21/17 15:19	1
Selenium	0.44	J	0.58	0.34	mg/Kg	☼	09/20/17 17:04	09/21/17 15:19	1
Silver	<0.29		0.29	0.075	mg/Kg	☼	09/20/17 17:04	09/21/17 15:19	1
Sodium	95		58	8.6	mg/Kg	☼	09/20/17 17:04	09/21/17 15:19	1
Thallium	0.29	J	0.58	0.29	mg/Kg	☼	09/20/17 17:04	09/21/17 15:19	1
Vanadium	23		0.29	0.068	mg/Kg	☼	09/20/17 17:04	09/21/17 15:19	1
Zinc	58	B	1.2	0.51	mg/Kg	☼	09/20/17 17:04	09/21/17 15:19	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		09/22/17 11:15	09/25/17 09:23	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		09/21/17 12:42	09/22/17 11:39	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	43	B	19	6.4	ug/Kg	☼	09/22/17 16:20	09/25/17 13:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.2		0.20	0.20	SU			09/22/17 15:13	1

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134251-1

Client Sample ID: FH-19(12-18)-091917

Lab Sample ID: 500-134251-13

Date Collected: 09/19/17 11:37

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 83.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	39		16	6.9	ug/Kg	☼	09/20/17 08:40	09/21/17 16:49	1
Benzene	<1.6		1.6	0.40	ug/Kg	☼	09/20/17 08:40	09/21/17 16:49	1
Bromodichloromethane	<1.6		1.6	0.32	ug/Kg	☼	09/20/17 08:40	09/21/17 16:49	1
Bromoform	<1.6		1.6	0.46	ug/Kg	☼	09/20/17 08:40	09/21/17 16:49	1
Bromomethane	<4.0		4.0	1.5	ug/Kg	☼	09/20/17 08:40	09/21/17 16:49	1
Carbon disulfide	<4.0		4.0	0.82	ug/Kg	☼	09/20/17 08:40	09/21/17 16:49	1
Carbon tetrachloride	<1.6		1.6	0.46	ug/Kg	☼	09/20/17 08:40	09/21/17 16:49	1
Chlorobenzene	<1.6		1.6	0.58	ug/Kg	☼	09/20/17 08:40	09/21/17 16:49	1
Chloroethane	<4.0 *		4.0	1.2	ug/Kg	☼	09/20/17 08:40	09/21/17 16:49	1
Chloroform	<1.6		1.6	0.55	ug/Kg	☼	09/20/17 08:40	09/21/17 16:49	1
Chloromethane	<4.0		4.0	1.6	ug/Kg	☼	09/20/17 08:40	09/21/17 16:49	1
cis-1,2-Dichloroethene	<1.6		1.6	0.44	ug/Kg	☼	09/20/17 08:40	09/21/17 16:49	1
cis-1,3-Dichloropropene	<1.6		1.6	0.48	ug/Kg	☼	09/20/17 08:40	09/21/17 16:49	1
Dibromochloromethane	<1.6		1.6	0.52	ug/Kg	☼	09/20/17 08:40	09/21/17 16:49	1
1,1-Dichloroethane	<1.6		1.6	0.54	ug/Kg	☼	09/20/17 08:40	09/21/17 16:49	1
1,2-Dichloroethane	<4.0		4.0	1.2	ug/Kg	☼	09/20/17 08:40	09/21/17 16:49	1
1,1-Dichloroethene	<1.6		1.6	0.54	ug/Kg	☼	09/20/17 08:40	09/21/17 16:49	1
1,2-Dichloropropane	<1.6		1.6	0.41	ug/Kg	☼	09/20/17 08:40	09/21/17 16:49	1
1,3-Dichloropropene, Total	<1.6		1.6	0.56	ug/Kg	☼	09/20/17 08:40	09/21/17 16:49	1
Ethylbenzene	<1.6		1.6	0.76	ug/Kg	☼	09/20/17 08:40	09/21/17 16:49	1
2-Hexanone	<4.0		4.0	1.2	ug/Kg	☼	09/20/17 08:40	09/21/17 16:49	1
Methylene Chloride	<4.0		4.0	1.6	ug/Kg	☼	09/20/17 08:40	09/21/17 16:49	1
Methyl Ethyl Ketone	<4.0		4.0	1.8	ug/Kg	☼	09/20/17 08:40	09/21/17 16:49	1
methyl isobutyl ketone	<4.0		4.0	1.2	ug/Kg	☼	09/20/17 08:40	09/21/17 16:49	1
Methyl tert-butyl ether	<1.6		1.6	0.46	ug/Kg	☼	09/20/17 08:40	09/21/17 16:49	1
Styrene	<1.6		1.6	0.48	ug/Kg	☼	09/20/17 08:40	09/21/17 16:49	1
1,1,2,2-Tetrachloroethane	<1.6		1.6	0.51	ug/Kg	☼	09/20/17 08:40	09/21/17 16:49	1
Tetrachloroethene	<1.6		1.6	0.54	ug/Kg	☼	09/20/17 08:40	09/21/17 16:49	1
Toluene	<1.6		1.6	0.40	ug/Kg	☼	09/20/17 08:40	09/21/17 16:49	1
trans-1,2-Dichloroethene	<1.6		1.6	0.70	ug/Kg	☼	09/20/17 08:40	09/21/17 16:49	1
trans-1,3-Dichloropropene	<1.6		1.6	0.56	ug/Kg	☼	09/20/17 08:40	09/21/17 16:49	1
1,1,1-Trichloroethane	<1.6		1.6	0.53	ug/Kg	☼	09/20/17 08:40	09/21/17 16:49	1
1,1,2-Trichloroethane	<1.6		1.6	0.68	ug/Kg	☼	09/20/17 08:40	09/21/17 16:49	1
Trichloroethene	<1.6		1.6	0.54	ug/Kg	☼	09/20/17 08:40	09/21/17 16:49	1
Vinyl chloride	<1.6		1.6	0.70	ug/Kg	☼	09/20/17 08:40	09/21/17 16:49	1
Xylenes, Total	<3.2		3.2	0.51	ug/Kg	☼	09/20/17 08:40	09/21/17 16:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		75 - 131	09/20/17 08:40	09/21/17 16:49	1
Dibromofluoromethane	96		75 - 126	09/20/17 08:40	09/21/17 16:49	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	09/20/17 08:40	09/21/17 16:49	1
Toluene-d8 (Surr)	101		75 - 124	09/20/17 08:40	09/21/17 16:49	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	☼	09/25/17 08:49	09/27/17 11:55	1
1,2-Dichlorobenzene	<200		200	48	ug/Kg	☼	09/25/17 08:49	09/27/17 11:55	1
1,3-Dichlorobenzene	<200		200	45	ug/Kg	☼	09/25/17 08:49	09/27/17 11:55	1
1,4-Dichlorobenzene	<200		200	51	ug/Kg	☼	09/25/17 08:49	09/27/17 11:55	1
2,2'-oxybis[1-chloropropane]	<200		200	46	ug/Kg	☼	09/25/17 08:49	09/27/17 11:55	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134251-1

Client Sample ID: FH-19(12-18)-091917

Lab Sample ID: 500-134251-13

Date Collected: 09/19/17 11:37

Matrix: Solid

Date Received: 09/19/17 16:45

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	<400		400	91	ug/Kg	☼	09/25/17 08:49	09/27/17 11:55	1
2,4,6-Trichlorophenol	<400		400	140	ug/Kg	☼	09/25/17 08:49	09/27/17 11:55	1
2,4-Dichlorophenol	<400		400	94	ug/Kg	☼	09/25/17 08:49	09/27/17 11:55	1
2,4-Dimethylphenol	<400		400	150	ug/Kg	☼	09/25/17 08:49	09/27/17 11:55	1
2,4-Dinitrophenol	<800		800	700	ug/Kg	☼	09/25/17 08:49	09/27/17 11:55	1
2,4-Dinitrotoluene	<200		200	63	ug/Kg	☼	09/25/17 08:49	09/27/17 11:55	1
2,6-Dinitrotoluene	<200		200	78	ug/Kg	☼	09/25/17 08:49	09/27/17 11:55	1
2-Chloronaphthalene	<200		200	44	ug/Kg	☼	09/25/17 08:49	09/27/17 11:55	1
2-Chlorophenol	<200		200	68	ug/Kg	☼	09/25/17 08:49	09/27/17 11:55	1
2-Methylnaphthalene	<80		80	7.3	ug/Kg	☼	09/25/17 08:49	09/27/17 11:55	1
2-Methylphenol	<200		200	64	ug/Kg	☼	09/25/17 08:49	09/27/17 11:55	1
2-Nitroaniline	<200		200	54	ug/Kg	☼	09/25/17 08:49	09/27/17 11:55	1
2-Nitrophenol	<400		400	94	ug/Kg	☼	09/25/17 08:49	09/27/17 11:55	1
3 & 4 Methylphenol	<200		200	66	ug/Kg	☼	09/25/17 08:49	09/27/17 11:55	1
3,3'-Dichlorobenzidine	<200		200	56	ug/Kg	☼	09/25/17 08:49	09/27/17 11:55	1
3-Nitroaniline	<400		400	120	ug/Kg	☼	09/25/17 08:49	09/27/17 11:55	1
4,6-Dinitro-2-methylphenol	<800		800	320	ug/Kg	☼	09/25/17 08:49	09/27/17 11:55	1
4-Bromophenyl phenyl ether	<200		200	52	ug/Kg	☼	09/25/17 08:49	09/27/17 11:55	1
4-Chloro-3-methylphenol	<400		400	140	ug/Kg	☼	09/25/17 08:49	09/27/17 11:55	1
4-Chloroaniline	<800		800	190	ug/Kg	☼	09/25/17 08:49	09/27/17 11:55	1
4-Chlorophenyl phenyl ether	<200		200	46	ug/Kg	☼	09/25/17 08:49	09/27/17 11:55	1
4-Nitroaniline	<400		400	170	ug/Kg	☼	09/25/17 08:49	09/27/17 11:55	1
4-Nitrophenol	<800		800	380	ug/Kg	☼	09/25/17 08:49	09/27/17 11:55	1
Acenaphthene	<40		40	7.1	ug/Kg	☼	09/25/17 08:49	09/27/17 11:55	1
Acenaphthylene	<40		40	5.2	ug/Kg	☼	09/25/17 08:49	09/27/17 11:55	1
Anthracene	<40		40	6.6	ug/Kg	☼	09/25/17 08:49	09/27/17 11:55	1
Benzo[a]anthracene	18 J		40	5.4	ug/Kg	☼	09/25/17 08:49	09/27/17 11:55	1
Benzo[a]pyrene	22 J		40	7.7	ug/Kg	☼	09/25/17 08:49	09/27/17 11:55	1
Benzo[b]fluoranthene	31 J		40	8.6	ug/Kg	☼	09/25/17 08:49	09/27/17 11:55	1
Benzo[g,h,i]perylene	21 J		40	13	ug/Kg	☼	09/25/17 08:49	09/27/17 11:55	1
Benzo[k]fluoranthene	12 J		40	12	ug/Kg	☼	09/25/17 08:49	09/27/17 11:55	1
Bis(2-chloroethoxy)methane	<200		200	41	ug/Kg	☼	09/25/17 08:49	09/27/17 11:55	1
Bis(2-chloroethyl)ether	<200		200	60	ug/Kg	☼	09/25/17 08:49	09/27/17 11:55	1
Bis(2-ethylhexyl) phthalate	<200		200	73	ug/Kg	☼	09/25/17 08:49	09/27/17 11:55	1
Butyl benzyl phthalate	<200		200	76	ug/Kg	☼	09/25/17 08:49	09/27/17 11:55	1
Carbazole	<200		200	99	ug/Kg	☼	09/25/17 08:49	09/27/17 11:55	1
Chrysene	28 J		40	11	ug/Kg	☼	09/25/17 08:49	09/27/17 11:55	1
Dibenz(a,h)anthracene	<40		40	7.7	ug/Kg	☼	09/25/17 08:49	09/27/17 11:55	1
Dibenzofuran	<200		200	47	ug/Kg	☼	09/25/17 08:49	09/27/17 11:55	1
Diethyl phthalate	<200		200	67	ug/Kg	☼	09/25/17 08:49	09/27/17 11:55	1
Dimethyl phthalate	<200		200	52	ug/Kg	☼	09/25/17 08:49	09/27/17 11:55	1
Di-n-butyl phthalate	<200		200	61	ug/Kg	☼	09/25/17 08:49	09/27/17 11:55	1
Di-n-octyl phthalate	<200		200	65	ug/Kg	☼	09/25/17 08:49	09/27/17 11:55	1
Fluoranthene	40		40	7.4	ug/Kg	☼	09/25/17 08:49	09/27/17 11:55	1
Fluorene	<40		40	5.6	ug/Kg	☼	09/25/17 08:49	09/27/17 11:55	1
Hexachlorobenzene	<80		80	9.2	ug/Kg	☼	09/25/17 08:49	09/27/17 11:55	1
Hexachlorobutadiene	<200		200	62	ug/Kg	☼	09/25/17 08:49	09/27/17 11:55	1
Hexachlorocyclopentadiene	<800		800	230	ug/Kg	☼	09/25/17 08:49	09/27/17 11:55	1
Hexachloroethane	<200		200	60	ug/Kg	☼	09/25/17 08:49	09/27/17 11:55	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134251-1

Client Sample ID: FH-19(12-18)-091917

Lab Sample ID: 500-134251-13

Date Collected: 09/19/17 11:37

Matrix: Solid

Date Received: 09/19/17 16:45

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	18	J	40	10	ug/Kg	☼	09/25/17 08:49	09/27/17 11:55	1
Isophorone	<200		200	45	ug/Kg	☼	09/25/17 08:49	09/27/17 11:55	1
Naphthalene	<40		40	6.1	ug/Kg	☼	09/25/17 08:49	09/27/17 11:55	1
Nitrobenzene	<40		40	9.9	ug/Kg	☼	09/25/17 08:49	09/27/17 11:55	1
N-Nitrosodi-n-propylamine	<80		80	49	ug/Kg	☼	09/25/17 08:49	09/27/17 11:55	1
N-Nitrosodiphenylamine	<200		200	47	ug/Kg	☼	09/25/17 08:49	09/27/17 11:55	1
Pentachlorophenol	<800		800	640	ug/Kg	☼	09/25/17 08:49	09/27/17 11:55	1
Phenanthrene	20	J	40	5.5	ug/Kg	☼	09/25/17 08:49	09/27/17 11:55	1
Phenol	<200		200	88	ug/Kg	☼	09/25/17 08:49	09/27/17 11:55	1
Pyrene	36	J	40	7.9	ug/Kg	☼	09/25/17 08:49	09/27/17 11:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	67		25 - 139				09/25/17 08:49	09/27/17 11:55	1
2-Fluorobiphenyl	79		44 - 121				09/25/17 08:49	09/27/17 11:55	1
2-Fluorophenol	119		46 - 133				09/25/17 08:49	09/27/17 11:55	1
Nitrobenzene-d5	81		41 - 120				09/25/17 08:49	09/27/17 11:55	1
Phenol-d5	99		46 - 125				09/25/17 08:49	09/27/17 11:55	1
Terphenyl-d14	94		35 - 160				09/25/17 08:49	09/27/17 11:55	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		09/22/17 14:46	09/25/17 19:19	1
Barium	0.38	J	0.50	0.050	mg/L		09/22/17 14:46	09/25/17 19:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/22/17 14:46	09/25/17 19:19	1
Cadmium	0.0028	J	0.0050	0.0020	mg/L		09/22/17 14:46	09/25/17 19:19	1
Chromium	<0.025		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 19:19	1
Cobalt	0.020	J	0.025	0.010	mg/L		09/22/17 14:46	09/25/17 19:19	1
Copper	<0.025		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 19:19	1
Iron	<0.40		0.40	0.20	mg/L		09/22/17 14:46	09/25/17 19:19	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/22/17 14:46	09/25/17 19:19	1
Manganese	6.3		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 19:19	1
Nickel	0.018	J	0.025	0.010	mg/L		09/22/17 14:46	09/25/17 19:19	1
Selenium	<0.050		0.050	0.020	mg/L		09/22/17 14:46	09/25/17 19:19	1
Silver	<0.025		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 19:19	1
Zinc	<0.50		0.50	0.020	mg/L		09/22/17 14:46	09/25/17 19:19	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		09/21/17 16:28	09/25/17 13:01	1
Barium	0.15	J	0.50	0.050	mg/L		09/21/17 16:28	09/25/17 13:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/21/17 16:28	09/25/17 13:01	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/21/17 16:28	09/25/17 13:01	1
Chromium	0.018	J	0.025	0.010	mg/L		09/21/17 16:28	09/25/17 13:01	1
Cobalt	<0.025		0.025	0.010	mg/L		09/21/17 16:28	09/25/17 13:01	1
Copper	0.024	J	0.025	0.010	mg/L		09/21/17 16:28	09/25/17 13:01	1
Iron	15		0.40	0.20	mg/L		09/21/17 16:28	09/25/17 13:01	1
Lead	0.013		0.0075	0.0075	mg/L		09/21/17 16:28	09/25/17 13:01	1
Manganese	0.35		0.025	0.010	mg/L		09/21/17 16:28	09/25/17 13:01	1
Nickel	0.018	J	0.025	0.010	mg/L		09/21/17 16:28	09/25/17 13:01	1
Selenium	<0.050		0.050	0.020	mg/L		09/21/17 16:28	09/25/17 13:01	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134251-1

Client Sample ID: FH-19(12-18)-091917

Lab Sample ID: 500-134251-13

Date Collected: 09/19/17 11:37

Matrix: Solid

Date Received: 09/19/17 16:45

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		09/21/17 16:28	09/25/17 13:01	1
Zinc	0.072	J	0.50	0.020	mg/L		09/21/17 16:28	09/25/17 13:01	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.23	mg/Kg	☼	09/20/17 17:04	09/21/17 15:23	1
Arsenic	8.1		0.58	0.20	mg/Kg	☼	09/20/17 17:04	09/21/17 15:23	1
Barium	53		0.58	0.066	mg/Kg	☼	09/20/17 17:04	09/21/17 15:23	1
Beryllium	0.64		0.23	0.054	mg/Kg	☼	09/20/17 17:04	09/21/17 15:23	1
Cadmium	0.18		0.12	0.021	mg/Kg	☼	09/20/17 17:04	09/21/17 15:23	1
Calcium	68000	B	120	20	mg/Kg	☼	09/20/17 17:04	09/22/17 12:26	10
Chromium	16		0.58	0.29	mg/Kg	☼	09/20/17 17:04	09/21/17 15:23	1
Cobalt	13		0.29	0.076	mg/Kg	☼	09/20/17 17:04	09/21/17 15:23	1
Copper	29	B	0.58	0.16	mg/Kg	☼	09/20/17 17:04	09/21/17 15:23	1
Iron	19000	B	12	6.1	mg/Kg	☼	09/20/17 17:04	09/21/17 15:23	1
Lead	18		0.29	0.13	mg/Kg	☼	09/20/17 17:04	09/21/17 15:23	1
Magnesium	18000	B	5.8	2.9	mg/Kg	☼	09/20/17 17:04	09/21/17 15:23	1
Manganese	330	B	0.58	0.084	mg/Kg	☼	09/20/17 17:04	09/21/17 15:23	1
Nickel	33		0.58	0.17	mg/Kg	☼	09/20/17 17:04	09/21/17 15:23	1
Potassium	2300		29	10	mg/Kg	☼	09/20/17 17:04	09/21/17 15:23	1
Selenium	<0.58		0.58	0.34	mg/Kg	☼	09/20/17 17:04	09/21/17 15:23	1
Silver	<0.29		0.29	0.075	mg/Kg	☼	09/20/17 17:04	09/21/17 15:23	1
Sodium	110		58	8.6	mg/Kg	☼	09/20/17 17:04	09/21/17 15:23	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	09/20/17 17:04	09/21/17 15:23	1
Vanadium	20		0.29	0.069	mg/Kg	☼	09/20/17 17:04	09/21/17 15:23	1
Zinc	54	B	1.2	0.51	mg/Kg	☼	09/20/17 17:04	09/21/17 15:23	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		09/22/17 11:15	09/25/17 09:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		09/21/17 12:42	09/22/17 11:41	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	46	B	18	6.0	ug/Kg	☼	09/22/17 16:20	09/25/17 13:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.3		0.20	0.20	SU			09/22/17 15:22	1

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134251-1

Client Sample ID: FH-23(0-6)-091917

Lab Sample ID: 500-134251-14

Date Collected: 09/19/17 12:01

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	33		21	9.2	ug/Kg	☼	09/20/17 08:40	09/21/17 17:13	1
Benzene	<2.1		2.1	0.54	ug/Kg	☼	09/20/17 08:40	09/21/17 17:13	1
Bromodichloromethane	<2.1		2.1	0.43	ug/Kg	☼	09/20/17 08:40	09/21/17 17:13	1
Bromoform	<2.1		2.1	0.61	ug/Kg	☼	09/20/17 08:40	09/21/17 17:13	1
Bromomethane	<5.3		5.3	2.0	ug/Kg	☼	09/20/17 08:40	09/21/17 17:13	1
Carbon disulfide	<5.3		5.3	1.1	ug/Kg	☼	09/20/17 08:40	09/21/17 17:13	1
Carbon tetrachloride	<2.1		2.1	0.61	ug/Kg	☼	09/20/17 08:40	09/21/17 17:13	1
Chlorobenzene	<2.1		2.1	0.78	ug/Kg	☼	09/20/17 08:40	09/21/17 17:13	1
Chloroethane	<5.3 *		5.3	1.6	ug/Kg	☼	09/20/17 08:40	09/21/17 17:13	1
Chloroform	<2.1		2.1	0.73	ug/Kg	☼	09/20/17 08:40	09/21/17 17:13	1
Chloromethane	<5.3		5.3	2.1	ug/Kg	☼	09/20/17 08:40	09/21/17 17:13	1
cis-1,2-Dichloroethene	<2.1		2.1	0.59	ug/Kg	☼	09/20/17 08:40	09/21/17 17:13	1
cis-1,3-Dichloropropene	<2.1		2.1	0.63	ug/Kg	☼	09/20/17 08:40	09/21/17 17:13	1
Dibromochloromethane	<2.1		2.1	0.69	ug/Kg	☼	09/20/17 08:40	09/21/17 17:13	1
1,1-Dichloroethane	<2.1		2.1	0.72	ug/Kg	☼	09/20/17 08:40	09/21/17 17:13	1
1,2-Dichloroethane	<5.3		5.3	1.6	ug/Kg	☼	09/20/17 08:40	09/21/17 17:13	1
1,1-Dichloroethene	<2.1		2.1	0.72	ug/Kg	☼	09/20/17 08:40	09/21/17 17:13	1
1,2-Dichloropropane	<2.1		2.1	0.54	ug/Kg	☼	09/20/17 08:40	09/21/17 17:13	1
1,3-Dichloropropene, Total	<2.1		2.1	0.74	ug/Kg	☼	09/20/17 08:40	09/21/17 17:13	1
Ethylbenzene	<2.1		2.1	1.0	ug/Kg	☼	09/20/17 08:40	09/21/17 17:13	1
2-Hexanone	<5.3		5.3	1.6	ug/Kg	☼	09/20/17 08:40	09/21/17 17:13	1
Methylene Chloride	<5.3		5.3	2.1	ug/Kg	☼	09/20/17 08:40	09/21/17 17:13	1
Methyl Ethyl Ketone	<5.3		5.3	2.3	ug/Kg	☼	09/20/17 08:40	09/21/17 17:13	1
methyl isobutyl ketone	<5.3		5.3	1.6	ug/Kg	☼	09/20/17 08:40	09/21/17 17:13	1
Methyl tert-butyl ether	<2.1		2.1	0.62	ug/Kg	☼	09/20/17 08:40	09/21/17 17:13	1
Styrene	<2.1		2.1	0.63	ug/Kg	☼	09/20/17 08:40	09/21/17 17:13	1
1,1,2,2-Tetrachloroethane	<2.1		2.1	0.67	ug/Kg	☼	09/20/17 08:40	09/21/17 17:13	1
Tetrachloroethene	<2.1		2.1	0.72	ug/Kg	☼	09/20/17 08:40	09/21/17 17:13	1
Toluene	<2.1		2.1	0.53	ug/Kg	☼	09/20/17 08:40	09/21/17 17:13	1
trans-1,2-Dichloroethene	<2.1		2.1	0.93	ug/Kg	☼	09/20/17 08:40	09/21/17 17:13	1
trans-1,3-Dichloropropene	<2.1		2.1	0.74	ug/Kg	☼	09/20/17 08:40	09/21/17 17:13	1
1,1,1-Trichloroethane	<2.1		2.1	0.70	ug/Kg	☼	09/20/17 08:40	09/21/17 17:13	1
1,1,2-Trichloroethane	<2.1		2.1	0.90	ug/Kg	☼	09/20/17 08:40	09/21/17 17:13	1
Trichloroethene	<2.1		2.1	0.71	ug/Kg	☼	09/20/17 08:40	09/21/17 17:13	1
Vinyl chloride	<2.1		2.1	0.93	ug/Kg	☼	09/20/17 08:40	09/21/17 17:13	1
Xylenes, Total	<4.2		4.2	0.67	ug/Kg	☼	09/20/17 08:40	09/21/17 17:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		75 - 131	09/20/17 08:40	09/21/17 17:13	1
Dibromofluoromethane	101		75 - 126	09/20/17 08:40	09/21/17 17:13	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	09/20/17 08:40	09/21/17 17:13	1
Toluene-d8 (Surr)	104		75 - 124	09/20/17 08:40	09/21/17 17:13	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	☼	09/25/17 08:49	09/27/17 12:19	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	09/25/17 08:49	09/27/17 12:19	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	09/25/17 08:49	09/27/17 12:19	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	09/25/17 08:49	09/27/17 12:19	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	09/25/17 08:49	09/27/17 12:19	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134251-1

Client Sample ID: FH-23(0-6)-091917

Lab Sample ID: 500-134251-14

Date Collected: 09/19/17 12:01

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<380		380	87	ug/Kg	☼	09/25/17 08:49	09/27/17 12:19	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	09/25/17 08:49	09/27/17 12:19	1
2,4-Dichlorophenol	<380		380	90	ug/Kg	☼	09/25/17 08:49	09/27/17 12:19	1
2,4-Dimethylphenol	<380		380	140	ug/Kg	☼	09/25/17 08:49	09/27/17 12:19	1
2,4-Dinitrophenol	<760		760	670	ug/Kg	☼	09/25/17 08:49	09/27/17 12:19	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	09/25/17 08:49	09/27/17 12:19	1
2,6-Dinitrotoluene	<190		190	75	ug/Kg	☼	09/25/17 08:49	09/27/17 12:19	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	09/25/17 08:49	09/27/17 12:19	1
2-Chlorophenol	<190		190	65	ug/Kg	☼	09/25/17 08:49	09/27/17 12:19	1
2-Methylnaphthalene	<76		76	7.0	ug/Kg	☼	09/25/17 08:49	09/27/17 12:19	1
2-Methylphenol	<190		190	61	ug/Kg	☼	09/25/17 08:49	09/27/17 12:19	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	09/25/17 08:49	09/27/17 12:19	1
2-Nitrophenol	<380		380	90	ug/Kg	☼	09/25/17 08:49	09/27/17 12:19	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	09/25/17 08:49	09/27/17 12:19	1
3,3'-Dichlorobenzidine	<190		190	53	ug/Kg	☼	09/25/17 08:49	09/27/17 12:19	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	09/25/17 08:49	09/27/17 12:19	1
4,6-Dinitro-2-methylphenol	<760		760	300	ug/Kg	☼	09/25/17 08:49	09/27/17 12:19	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	09/25/17 08:49	09/27/17 12:19	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	09/25/17 08:49	09/27/17 12:19	1
4-Chloroaniline	<760		760	180	ug/Kg	☼	09/25/17 08:49	09/27/17 12:19	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	09/25/17 08:49	09/27/17 12:19	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	09/25/17 08:49	09/27/17 12:19	1
4-Nitrophenol	<760		760	360	ug/Kg	☼	09/25/17 08:49	09/27/17 12:19	1
Acenaphthene	<38		38	6.8	ug/Kg	☼	09/25/17 08:49	09/27/17 12:19	1
Acenaphthylene	<38		38	5.0	ug/Kg	☼	09/25/17 08:49	09/27/17 12:19	1
Anthracene	7.9	J	38	6.3	ug/Kg	☼	09/25/17 08:49	09/27/17 12:19	1
Benzo[a]anthracene	32	J	38	5.1	ug/Kg	☼	09/25/17 08:49	09/27/17 12:19	1
Benzo[a]pyrene	39		38	7.3	ug/Kg	☼	09/25/17 08:49	09/27/17 12:19	1
Benzo[b]fluoranthene	43		38	8.2	ug/Kg	☼	09/25/17 08:49	09/27/17 12:19	1
Benzo[g,h,i]perylene	28	J	38	12	ug/Kg	☼	09/25/17 08:49	09/27/17 12:19	1
Benzo[k]fluoranthene	29	J	38	11	ug/Kg	☼	09/25/17 08:49	09/27/17 12:19	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	09/25/17 08:49	09/27/17 12:19	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	09/25/17 08:49	09/27/17 12:19	1
Bis(2-ethylhexyl) phthalate	<190		190	69	ug/Kg	☼	09/25/17 08:49	09/27/17 12:19	1
Butyl benzyl phthalate	<190		190	72	ug/Kg	☼	09/25/17 08:49	09/27/17 12:19	1
Carbazole	<190		190	95	ug/Kg	☼	09/25/17 08:49	09/27/17 12:19	1
Chrysene	39		38	10	ug/Kg	☼	09/25/17 08:49	09/27/17 12:19	1
Dibenz(a,h)anthracene	11	J	38	7.3	ug/Kg	☼	09/25/17 08:49	09/27/17 12:19	1
Dibenzofuran	<190		190	44	ug/Kg	☼	09/25/17 08:49	09/27/17 12:19	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	09/25/17 08:49	09/27/17 12:19	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	09/25/17 08:49	09/27/17 12:19	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	09/25/17 08:49	09/27/17 12:19	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	09/25/17 08:49	09/27/17 12:19	1
Fluoranthene	79		38	7.0	ug/Kg	☼	09/25/17 08:49	09/27/17 12:19	1
Fluorene	<38		38	5.3	ug/Kg	☼	09/25/17 08:49	09/27/17 12:19	1
Hexachlorobenzene	<76		76	8.8	ug/Kg	☼	09/25/17 08:49	09/27/17 12:19	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	09/25/17 08:49	09/27/17 12:19	1
Hexachlorocyclopentadiene	<760		760	220	ug/Kg	☼	09/25/17 08:49	09/27/17 12:19	1
Hexachloroethane	<190		190	58	ug/Kg	☼	09/25/17 08:49	09/27/17 12:19	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134251-1

Client Sample ID: FH-23(0-6)-091917

Lab Sample ID: 500-134251-14

Date Collected: 09/19/17 12:01

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	26	J	38	9.8	ug/Kg	☼	09/25/17 08:49	09/27/17 12:19	1
Isophorone	<190		190	43	ug/Kg	☼	09/25/17 08:49	09/27/17 12:19	1
Naphthalene	<38		38	5.8	ug/Kg	☼	09/25/17 08:49	09/27/17 12:19	1
Nitrobenzene	<38		38	9.5	ug/Kg	☼	09/25/17 08:49	09/27/17 12:19	1
N-Nitrosodi-n-propylamine	<76		76	46	ug/Kg	☼	09/25/17 08:49	09/27/17 12:19	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	09/25/17 08:49	09/27/17 12:19	1
Pentachlorophenol	<760		760	610	ug/Kg	☼	09/25/17 08:49	09/27/17 12:19	1
Phenanthrene	42		38	5.3	ug/Kg	☼	09/25/17 08:49	09/27/17 12:19	1
Phenol	<190		190	84	ug/Kg	☼	09/25/17 08:49	09/27/17 12:19	1
Pyrene	67		38	7.5	ug/Kg	☼	09/25/17 08:49	09/27/17 12:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>2,4,6-Tribromophenol</i>	72		25 - 139				09/25/17 08:49	09/27/17 12:19	1
<i>2-Fluorobiphenyl</i>	81		44 - 121				09/25/17 08:49	09/27/17 12:19	1
<i>2-Fluorophenol</i>	105		46 - 133				09/25/17 08:49	09/27/17 12:19	1
<i>Nitrobenzene-d5</i>	82		41 - 120				09/25/17 08:49	09/27/17 12:19	1
<i>Phenol-d5</i>	101		46 - 125				09/25/17 08:49	09/27/17 12:19	1
<i>Terphenyl-d14</i>	93		35 - 160				09/25/17 08:49	09/27/17 12:19	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/22/17 14:46	09/25/17 19:23	1
Barium	0.34	J	0.50	0.050	mg/L		09/22/17 14:46	09/25/17 19:23	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/22/17 14:46	09/25/17 19:23	1
Cadmium	0.0032	J	0.0050	0.0020	mg/L		09/22/17 14:46	09/25/17 19:23	1
Chromium	<0.025		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 19:23	1
Cobalt	0.031		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 19:23	1
Copper	<0.025		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 19:23	1
Iron	<0.40		0.40	0.20	mg/L		09/22/17 14:46	09/25/17 19:23	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/22/17 14:46	09/25/17 19:23	1
Manganese	8.1		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 19:23	1
Nickel	0.026		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 19:23	1
Selenium	<0.050		0.050	0.020	mg/L		09/22/17 14:46	09/25/17 19:23	1
Silver	<0.025		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 19:23	1
Zinc	<0.50		0.50	0.020	mg/L		09/22/17 14:46	09/25/17 19:23	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		09/21/17 16:28	09/25/17 13:05	1
Barium	0.11	J	0.50	0.050	mg/L		09/21/17 16:28	09/25/17 13:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/21/17 16:28	09/25/17 13:05	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/21/17 16:28	09/25/17 13:05	1
Chromium	0.012	J	0.025	0.010	mg/L		09/21/17 16:28	09/25/17 13:05	1
Cobalt	<0.025		0.025	0.010	mg/L		09/21/17 16:28	09/25/17 13:05	1
Copper	0.028		0.025	0.010	mg/L		09/21/17 16:28	09/25/17 13:05	1
Iron	8.6		0.40	0.20	mg/L		09/21/17 16:28	09/25/17 13:05	1
Lead	0.0085		0.0075	0.0075	mg/L		09/21/17 16:28	09/25/17 13:05	1
Manganese	0.062		0.025	0.010	mg/L		09/21/17 16:28	09/25/17 13:05	1
Nickel	0.011	J	0.025	0.010	mg/L		09/21/17 16:28	09/25/17 13:05	1
Selenium	<0.050		0.050	0.020	mg/L		09/21/17 16:28	09/25/17 13:05	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134251-1

Client Sample ID: FH-23(0-6)-091917

Lab Sample ID: 500-134251-14

Date Collected: 09/19/17 12:01

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 84.6

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		09/21/17 16:28	09/25/17 13:05	1
Zinc	0.065	J	0.50	0.020	mg/L		09/21/17 16:28	09/25/17 13:05	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.21	mg/Kg	☼	09/20/17 17:04	09/21/17 15:27	1
Arsenic	8.2		0.54	0.19	mg/Kg	☼	09/20/17 17:04	09/21/17 15:27	1
Barium	67		0.54	0.062	mg/Kg	☼	09/20/17 17:04	09/21/17 15:27	1
Beryllium	0.68		0.22	0.051	mg/Kg	☼	09/20/17 17:04	09/21/17 15:27	1
Cadmium	0.21		0.11	0.020	mg/Kg	☼	09/20/17 17:04	09/21/17 15:27	1
Calcium	18000	B	11	1.8	mg/Kg	☼	09/20/17 17:04	09/21/17 15:27	1
Chromium	18		0.54	0.27	mg/Kg	☼	09/20/17 17:04	09/21/17 15:27	1
Cobalt	15		0.27	0.071	mg/Kg	☼	09/20/17 17:04	09/21/17 15:27	1
Copper	27	B	0.54	0.15	mg/Kg	☼	09/20/17 17:04	09/21/17 15:27	1
Iron	20000	B	11	5.7	mg/Kg	☼	09/20/17 17:04	09/21/17 15:27	1
Lead	23		0.27	0.13	mg/Kg	☼	09/20/17 17:04	09/21/17 15:27	1
Magnesium	13000	B	5.4	2.7	mg/Kg	☼	09/20/17 17:04	09/21/17 15:27	1
Manganese	450	B	0.54	0.079	mg/Kg	☼	09/20/17 17:04	09/21/17 15:27	1
Nickel	34		0.54	0.16	mg/Kg	☼	09/20/17 17:04	09/21/17 15:27	1
Potassium	2200		27	9.6	mg/Kg	☼	09/20/17 17:04	09/21/17 15:27	1
Selenium	0.60		0.54	0.32	mg/Kg	☼	09/20/17 17:04	09/21/17 15:27	1
Silver	<0.27		0.27	0.070	mg/Kg	☼	09/20/17 17:04	09/21/17 15:27	1
Sodium	91		54	8.1	mg/Kg	☼	09/20/17 17:04	09/21/17 15:27	1
Thallium	<0.54		0.54	0.27	mg/Kg	☼	09/20/17 17:04	09/21/17 15:27	1
Vanadium	23		0.27	0.064	mg/Kg	☼	09/20/17 17:04	09/21/17 15:27	1
Zinc	59	B	1.1	0.48	mg/Kg	☼	09/20/17 17:04	09/21/17 15:27	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		09/22/17 11:15	09/25/17 09:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		09/21/17 12:42	09/22/17 11:45	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	53	B	18	6.0	ug/Kg	☼	09/22/17 16:20	09/25/17 13:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.1		0.20	0.20	SU			09/22/17 15:27	1

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134251-1

Client Sample ID: FH-25(0-5)-091917

Lab Sample ID: 500-134251-18

Date Collected: 09/19/17 13:06

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 86.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<18		18	7.6	ug/Kg	☼	09/20/17 08:40	09/21/17 18:54	1
Benzene	<1.8		1.8	0.45	ug/Kg	☼	09/20/17 08:40	09/21/17 18:54	1
Bromodichloromethane	<1.8		1.8	0.36	ug/Kg	☼	09/20/17 08:40	09/21/17 18:54	1
Bromoform	<1.8		1.8	0.51	ug/Kg	☼	09/20/17 08:40	09/21/17 18:54	1
Bromomethane	<4.4		4.4	1.7	ug/Kg	☼	09/20/17 08:40	09/21/17 18:54	1
Carbon disulfide	<4.4		4.4	0.91	ug/Kg	☼	09/20/17 08:40	09/21/17 18:54	1
Carbon tetrachloride	<1.8		1.8	0.51	ug/Kg	☼	09/20/17 08:40	09/21/17 18:54	1
Chlorobenzene	<1.8		1.8	0.65	ug/Kg	☼	09/20/17 08:40	09/21/17 18:54	1
Chloroethane	<4.4 *		4.4	1.3	ug/Kg	☼	09/20/17 08:40	09/21/17 18:54	1
Chloroform	<1.8		1.8	0.61	ug/Kg	☼	09/20/17 08:40	09/21/17 18:54	1
Chloromethane	<4.4		4.4	1.8	ug/Kg	☼	09/20/17 08:40	09/21/17 18:54	1
cis-1,2-Dichloroethene	<1.8		1.8	0.49	ug/Kg	☼	09/20/17 08:40	09/21/17 18:54	1
cis-1,3-Dichloropropene	<1.8		1.8	0.53	ug/Kg	☼	09/20/17 08:40	09/21/17 18:54	1
Dibromochloromethane	<1.8		1.8	0.57	ug/Kg	☼	09/20/17 08:40	09/21/17 18:54	1
1,1-Dichloroethane	<1.8		1.8	0.60	ug/Kg	☼	09/20/17 08:40	09/21/17 18:54	1
1,2-Dichloroethane	<4.4		4.4	1.4	ug/Kg	☼	09/20/17 08:40	09/21/17 18:54	1
1,1-Dichloroethene	<1.8		1.8	0.60	ug/Kg	☼	09/20/17 08:40	09/21/17 18:54	1
1,2-Dichloropropane	<1.8		1.8	0.45	ug/Kg	☼	09/20/17 08:40	09/21/17 18:54	1
1,3-Dichloropropene, Total	<1.8		1.8	0.62	ug/Kg	☼	09/20/17 08:40	09/21/17 18:54	1
Ethylbenzene	<1.8		1.8	0.84	ug/Kg	☼	09/20/17 08:40	09/21/17 18:54	1
2-Hexanone	<4.4		4.4	1.4	ug/Kg	☼	09/20/17 08:40	09/21/17 18:54	1
Methylene Chloride	<4.4		4.4	1.7	ug/Kg	☼	09/20/17 08:40	09/21/17 18:54	1
Methyl Ethyl Ketone	<4.4		4.4	1.9	ug/Kg	☼	09/20/17 08:40	09/21/17 18:54	1
methyl isobutyl ketone	<4.4		4.4	1.3	ug/Kg	☼	09/20/17 08:40	09/21/17 18:54	1
Methyl tert-butyl ether	<1.8		1.8	0.51	ug/Kg	☼	09/20/17 08:40	09/21/17 18:54	1
Styrene	<1.8		1.8	0.53	ug/Kg	☼	09/20/17 08:40	09/21/17 18:54	1
1,1,2,2-Tetrachloroethane	<1.8		1.8	0.56	ug/Kg	☼	09/20/17 08:40	09/21/17 18:54	1
Tetrachloroethene	<1.8		1.8	0.60	ug/Kg	☼	09/20/17 08:40	09/21/17 18:54	1
Toluene	<1.8		1.8	0.44	ug/Kg	☼	09/20/17 08:40	09/21/17 18:54	1
trans-1,2-Dichloroethene	<1.8		1.8	0.78	ug/Kg	☼	09/20/17 08:40	09/21/17 18:54	1
trans-1,3-Dichloropropene	<1.8		1.8	0.62	ug/Kg	☼	09/20/17 08:40	09/21/17 18:54	1
1,1,1-Trichloroethane	<1.8		1.8	0.59	ug/Kg	☼	09/20/17 08:40	09/21/17 18:54	1
1,1,2-Trichloroethane	<1.8		1.8	0.75	ug/Kg	☼	09/20/17 08:40	09/21/17 18:54	1
Trichloroethene	<1.8		1.8	0.59	ug/Kg	☼	09/20/17 08:40	09/21/17 18:54	1
Vinyl chloride	<1.8		1.8	0.78	ug/Kg	☼	09/20/17 08:40	09/21/17 18:54	1
Xylenes, Total	<3.5		3.5	0.56	ug/Kg	☼	09/20/17 08:40	09/21/17 18:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		75 - 131	09/20/17 08:40	09/21/17 18:54	1
Dibromofluoromethane	101		75 - 126	09/20/17 08:40	09/21/17 18:54	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134	09/20/17 08:40	09/21/17 18:54	1
Toluene-d8 (Surr)	99		75 - 124	09/20/17 08:40	09/21/17 18:54	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	☼	09/25/17 08:49	09/27/17 13:52	1
1,2-Dichlorobenzene	<190		190	44	ug/Kg	☼	09/25/17 08:49	09/27/17 13:52	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	09/25/17 08:49	09/27/17 13:52	1
1,4-Dichlorobenzene	<190		190	47	ug/Kg	☼	09/25/17 08:49	09/27/17 13:52	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	09/25/17 08:49	09/27/17 13:52	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134251-1

Client Sample ID: FH-25(0-5)-091917

Lab Sample ID: 500-134251-18

Date Collected: 09/19/17 13:06

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 86.8

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	84	ug/Kg	☼	09/25/17 08:49	09/27/17 13:52	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	09/25/17 08:49	09/27/17 13:52	1
2,4-Dichlorophenol	<370		370	88	ug/Kg	☼	09/25/17 08:49	09/27/17 13:52	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	09/25/17 08:49	09/27/17 13:52	1
2,4-Dinitrophenol	<750		750	650	ug/Kg	☼	09/25/17 08:49	09/27/17 13:52	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	09/25/17 08:49	09/27/17 13:52	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	09/25/17 08:49	09/27/17 13:52	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	09/25/17 08:49	09/27/17 13:52	1
2-Chlorophenol	<190		190	63	ug/Kg	☼	09/25/17 08:49	09/27/17 13:52	1
2-Methylnaphthalene	<75		75	6.8	ug/Kg	☼	09/25/17 08:49	09/27/17 13:52	1
2-Methylphenol	<190		190	59	ug/Kg	☼	09/25/17 08:49	09/27/17 13:52	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	09/25/17 08:49	09/27/17 13:52	1
2-Nitrophenol	<370		370	87	ug/Kg	☼	09/25/17 08:49	09/27/17 13:52	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	09/25/17 08:49	09/27/17 13:52	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	09/25/17 08:49	09/27/17 13:52	1
3-Nitroaniline	<370		370	110	ug/Kg	☼	09/25/17 08:49	09/27/17 13:52	1
4,6-Dinitro-2-methylphenol	<750		750	300	ug/Kg	☼	09/25/17 08:49	09/27/17 13:52	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	09/25/17 08:49	09/27/17 13:52	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	09/25/17 08:49	09/27/17 13:52	1
4-Chloroaniline	<750		750	170	ug/Kg	☼	09/25/17 08:49	09/27/17 13:52	1
4-Chlorophenyl phenyl ether	<190		190	43	ug/Kg	☼	09/25/17 08:49	09/27/17 13:52	1
4-Nitroaniline	<370		370	150	ug/Kg	☼	09/25/17 08:49	09/27/17 13:52	1
4-Nitrophenol	<750		750	350	ug/Kg	☼	09/25/17 08:49	09/27/17 13:52	1
Acenaphthene	<37		37	6.7	ug/Kg	☼	09/25/17 08:49	09/27/17 13:52	1
Acenaphthylene	<37		37	4.9	ug/Kg	☼	09/25/17 08:49	09/27/17 13:52	1
Anthracene	<37		37	6.2	ug/Kg	☼	09/25/17 08:49	09/27/17 13:52	1
Benzo[a]anthracene	19 J		37	5.0	ug/Kg	☼	09/25/17 08:49	09/27/17 13:52	1
Benzo[a]pyrene	24 J		37	7.2	ug/Kg	☼	09/25/17 08:49	09/27/17 13:52	1
Benzo[b]fluoranthene	34 J		37	8.0	ug/Kg	☼	09/25/17 08:49	09/27/17 13:52	1
Benzo[g,h,i]perylene	16 J		37	12	ug/Kg	☼	09/25/17 08:49	09/27/17 13:52	1
Benzo[k]fluoranthene	11 J		37	11	ug/Kg	☼	09/25/17 08:49	09/27/17 13:52	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	09/25/17 08:49	09/27/17 13:52	1
Bis(2-chloroethyl)ether	<190		190	55	ug/Kg	☼	09/25/17 08:49	09/27/17 13:52	1
Bis(2-ethylhexyl) phthalate	<190		190	68	ug/Kg	☼	09/25/17 08:49	09/27/17 13:52	1
Butyl benzyl phthalate	<190		190	70	ug/Kg	☼	09/25/17 08:49	09/27/17 13:52	1
Carbazole	<190		190	92	ug/Kg	☼	09/25/17 08:49	09/27/17 13:52	1
Chrysene	23 J		37	10	ug/Kg	☼	09/25/17 08:49	09/27/17 13:52	1
Dibenz(a,h)anthracene	<37		37	7.2	ug/Kg	☼	09/25/17 08:49	09/27/17 13:52	1
Dibenzofuran	<190		190	43	ug/Kg	☼	09/25/17 08:49	09/27/17 13:52	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	09/25/17 08:49	09/27/17 13:52	1
Dimethyl phthalate	<190		190	48	ug/Kg	☼	09/25/17 08:49	09/27/17 13:52	1
Di-n-butyl phthalate	<190		190	56	ug/Kg	☼	09/25/17 08:49	09/27/17 13:52	1
Di-n-octyl phthalate	<190		190	60	ug/Kg	☼	09/25/17 08:49	09/27/17 13:52	1
Fluoranthene	44		37	6.9	ug/Kg	☼	09/25/17 08:49	09/27/17 13:52	1
Fluorene	<37		37	5.2	ug/Kg	☼	09/25/17 08:49	09/27/17 13:52	1
Hexachlorobenzene	<75		75	8.6	ug/Kg	☼	09/25/17 08:49	09/27/17 13:52	1
Hexachlorobutadiene	<190		190	58	ug/Kg	☼	09/25/17 08:49	09/27/17 13:52	1
Hexachlorocyclopentadiene	<750		750	210	ug/Kg	☼	09/25/17 08:49	09/27/17 13:52	1
Hexachloroethane	<190		190	56	ug/Kg	☼	09/25/17 08:49	09/27/17 13:52	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134251-1

Client Sample ID: FH-25(0-5)-091917

Lab Sample ID: 500-134251-18

Date Collected: 09/19/17 13:06

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 86.8

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	18	J	37	9.6	ug/Kg	☼	09/25/17 08:49	09/27/17 13:52	1
Isophorone	<190		190	42	ug/Kg	☼	09/25/17 08:49	09/27/17 13:52	1
Naphthalene	<37		37	5.7	ug/Kg	☼	09/25/17 08:49	09/27/17 13:52	1
Nitrobenzene	<37		37	9.2	ug/Kg	☼	09/25/17 08:49	09/27/17 13:52	1
N-Nitrosodi-n-propylamine	<75		75	45	ug/Kg	☼	09/25/17 08:49	09/27/17 13:52	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	09/25/17 08:49	09/27/17 13:52	1
Pentachlorophenol	<750		750	590	ug/Kg	☼	09/25/17 08:49	09/27/17 13:52	1
Phenanthrene	22	J	37	5.2	ug/Kg	☼	09/25/17 08:49	09/27/17 13:52	1
Phenol	<190		190	82	ug/Kg	☼	09/25/17 08:49	09/27/17 13:52	1
Pyrene	39		37	7.4	ug/Kg	☼	09/25/17 08:49	09/27/17 13:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	83		25 - 139				09/25/17 08:49	09/27/17 13:52	1
2-Fluorobiphenyl	78		44 - 121				09/25/17 08:49	09/27/17 13:52	1
2-Fluorophenol	100		46 - 133				09/25/17 08:49	09/27/17 13:52	1
Nitrobenzene-d5	76		41 - 120				09/25/17 08:49	09/27/17 13:52	1
Phenol-d5	91		46 - 125				09/25/17 08:49	09/27/17 13:52	1
Terphenyl-d14	90		35 - 160				09/25/17 08:49	09/27/17 13:52	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/22/17 14:46	09/25/17 19:39	1
Barium	0.30	J	0.50	0.050	mg/L		09/22/17 14:46	09/25/17 19:39	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/22/17 14:46	09/25/17 19:39	1
Cadmium	0.0027	J	0.0050	0.0020	mg/L		09/22/17 14:46	09/25/17 19:39	1
Chromium	<0.025		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 19:39	1
Cobalt	<0.025		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 19:39	1
Copper	<0.025		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 19:39	1
Iron	<0.40		0.40	0.20	mg/L		09/22/17 14:46	09/25/17 19:39	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/22/17 14:46	09/25/17 19:39	1
Manganese	2.5		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 19:39	1
Nickel	<0.025		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 19:39	1
Selenium	<0.050		0.050	0.020	mg/L		09/22/17 14:46	09/25/17 19:39	1
Silver	<0.025		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 19:39	1
Zinc	<0.50		0.50	0.020	mg/L		09/22/17 14:46	09/25/17 19:39	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		09/21/17 16:28	09/25/17 13:20	1
Barium	<0.50		0.50	0.050	mg/L		09/21/17 16:28	09/25/17 13:20	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/21/17 16:28	09/25/17 13:20	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/21/17 16:28	09/25/17 13:20	1
Chromium	<0.025		0.025	0.010	mg/L		09/21/17 16:28	09/25/17 13:20	1
Cobalt	<0.025		0.025	0.010	mg/L		09/21/17 16:28	09/25/17 13:20	1
Copper	<0.025		0.025	0.010	mg/L		09/21/17 16:28	09/25/17 13:20	1
Iron	5.2		0.40	0.20	mg/L		09/21/17 16:28	09/25/17 13:20	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/21/17 16:28	09/25/17 13:20	1
Manganese	0.021	J	0.025	0.010	mg/L		09/21/17 16:28	09/25/17 13:20	1
Nickel	<0.025		0.025	0.010	mg/L		09/21/17 16:28	09/25/17 13:20	1
Selenium	<0.050		0.050	0.020	mg/L		09/21/17 16:28	09/25/17 13:20	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134251-1

Client Sample ID: FH-25(0-5)-091917

Lab Sample ID: 500-134251-18

Date Collected: 09/19/17 13:06

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 86.8

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		09/21/17 16:28	09/25/17 13:20	1
Zinc	<0.50		0.50	0.020	mg/L		09/21/17 16:28	09/25/17 13:20	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	☼	09/20/17 17:04	09/21/17 15:51	1
Arsenic	6.3		0.56	0.19	mg/Kg	☼	09/20/17 17:04	09/21/17 15:51	1
Barium	79		0.56	0.064	mg/Kg	☼	09/20/17 17:04	09/21/17 15:51	1
Beryllium	0.71		0.22	0.052	mg/Kg	☼	09/20/17 17:04	09/21/17 15:51	1
Cadmium	0.17		0.11	0.020	mg/Kg	☼	09/20/17 17:04	09/21/17 15:51	1
Calcium	8500	B	11	1.9	mg/Kg	☼	09/20/17 17:04	09/21/17 15:51	1
Chromium	18		0.56	0.28	mg/Kg	☼	09/20/17 17:04	09/21/17 15:51	1
Cobalt	12		0.28	0.073	mg/Kg	☼	09/20/17 17:04	09/21/17 15:51	1
Copper	26	B	0.56	0.16	mg/Kg	☼	09/20/17 17:04	09/21/17 15:51	1
Iron	19000	B	11	5.8	mg/Kg	☼	09/20/17 17:04	09/21/17 15:51	1
Lead	19		0.28	0.13	mg/Kg	☼	09/20/17 17:04	09/21/17 15:51	1
Magnesium	7700	B	5.6	2.8	mg/Kg	☼	09/20/17 17:04	09/21/17 15:51	1
Manganese	400	B	0.56	0.081	mg/Kg	☼	09/20/17 17:04	09/21/17 15:51	1
Nickel	31		0.56	0.16	mg/Kg	☼	09/20/17 17:04	09/21/17 15:51	1
Potassium	2100		28	9.9	mg/Kg	☼	09/20/17 17:04	09/21/17 15:51	1
Selenium	0.78		0.56	0.33	mg/Kg	☼	09/20/17 17:04	09/21/17 15:51	1
Silver	<0.28		0.28	0.072	mg/Kg	☼	09/20/17 17:04	09/21/17 15:51	1
Sodium	75		56	8.3	mg/Kg	☼	09/20/17 17:04	09/22/17 12:34	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	09/20/17 17:04	09/21/17 15:51	1
Vanadium	23		0.28	0.066	mg/Kg	☼	09/20/17 17:04	09/21/17 15:51	1
Zinc	57	B	1.1	0.49	mg/Kg	☼	09/20/17 17:04	09/21/17 15:51	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		09/22/17 11:15	09/25/17 09:32	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		09/21/17 12:42	09/22/17 11:51	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	47	B	17	5.7	ug/Kg	☼	09/22/17 16:20	09/25/17 13:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.9		0.20	0.20	SU			09/22/17 15:45	1

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134251-1

Client Sample ID: FH-25(5-10)-091917

Lab Sample ID: 500-134251-19

Date Collected: 09/19/17 13:16

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 80.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	40		22	9.6	ug/Kg	☼	09/20/17 08:40	09/21/17 19:19	1
Benzene	<2.2		2.2	0.56	ug/Kg	☼	09/20/17 08:40	09/21/17 19:19	1
Bromodichloromethane	<2.2		2.2	0.45	ug/Kg	☼	09/20/17 08:40	09/21/17 19:19	1
Bromoform	<2.2		2.2	0.64	ug/Kg	☼	09/20/17 08:40	09/21/17 19:19	1
Bromomethane	<5.5		5.5	2.1	ug/Kg	☼	09/20/17 08:40	09/21/17 19:19	1
Carbon disulfide	<5.5		5.5	1.1	ug/Kg	☼	09/20/17 08:40	09/21/17 19:19	1
Carbon tetrachloride	<2.2		2.2	0.64	ug/Kg	☼	09/20/17 08:40	09/21/17 19:19	1
Chlorobenzene	<2.2		2.2	0.81	ug/Kg	☼	09/20/17 08:40	09/21/17 19:19	1
Chloroethane	<5.5 *		5.5	1.6	ug/Kg	☼	09/20/17 08:40	09/21/17 19:19	1
Chloroform	<2.2		2.2	0.76	ug/Kg	☼	09/20/17 08:40	09/21/17 19:19	1
Chloromethane	<5.5		5.5	2.2	ug/Kg	☼	09/20/17 08:40	09/21/17 19:19	1
cis-1,2-Dichloroethene	<2.2		2.2	0.62	ug/Kg	☼	09/20/17 08:40	09/21/17 19:19	1
cis-1,3-Dichloropropene	<2.2		2.2	0.66	ug/Kg	☼	09/20/17 08:40	09/21/17 19:19	1
Dibromochloromethane	<2.2		2.2	0.72	ug/Kg	☼	09/20/17 08:40	09/21/17 19:19	1
1,1-Dichloroethane	<2.2		2.2	0.75	ug/Kg	☼	09/20/17 08:40	09/21/17 19:19	1
1,2-Dichloroethane	<5.5		5.5	1.7	ug/Kg	☼	09/20/17 08:40	09/21/17 19:19	1
1,1-Dichloroethene	<2.2		2.2	0.76	ug/Kg	☼	09/20/17 08:40	09/21/17 19:19	1
1,2-Dichloropropane	<2.2		2.2	0.57	ug/Kg	☼	09/20/17 08:40	09/21/17 19:19	1
1,3-Dichloropropene, Total	<2.2		2.2	0.77	ug/Kg	☼	09/20/17 08:40	09/21/17 19:19	1
Ethylbenzene	<2.2		2.2	1.1	ug/Kg	☼	09/20/17 08:40	09/21/17 19:19	1
2-Hexanone	<5.5		5.5	1.7	ug/Kg	☼	09/20/17 08:40	09/21/17 19:19	1
Methylene Chloride	<5.5		5.5	2.2	ug/Kg	☼	09/20/17 08:40	09/21/17 19:19	1
Methyl Ethyl Ketone	<5.5		5.5	2.4	ug/Kg	☼	09/20/17 08:40	09/21/17 19:19	1
methyl isobutyl ketone	<5.5		5.5	1.6	ug/Kg	☼	09/20/17 08:40	09/21/17 19:19	1
Methyl tert-butyl ether	<2.2		2.2	0.65	ug/Kg	☼	09/20/17 08:40	09/21/17 19:19	1
Styrene	<2.2		2.2	0.66	ug/Kg	☼	09/20/17 08:40	09/21/17 19:19	1
1,1,2,2-Tetrachloroethane	<2.2		2.2	0.70	ug/Kg	☼	09/20/17 08:40	09/21/17 19:19	1
Tetrachloroethene	<2.2		2.2	0.75	ug/Kg	☼	09/20/17 08:40	09/21/17 19:19	1
Toluene	<2.2		2.2	0.56	ug/Kg	☼	09/20/17 08:40	09/21/17 19:19	1
trans-1,2-Dichloroethene	<2.2		2.2	0.98	ug/Kg	☼	09/20/17 08:40	09/21/17 19:19	1
trans-1,3-Dichloropropene	<2.2		2.2	0.77	ug/Kg	☼	09/20/17 08:40	09/21/17 19:19	1
1,1,1-Trichloroethane	<2.2		2.2	0.74	ug/Kg	☼	09/20/17 08:40	09/21/17 19:19	1
1,1,2-Trichloroethane	<2.2		2.2	0.94	ug/Kg	☼	09/20/17 08:40	09/21/17 19:19	1
Trichloroethene	<2.2		2.2	0.74	ug/Kg	☼	09/20/17 08:40	09/21/17 19:19	1
Vinyl chloride	<2.2		2.2	0.97	ug/Kg	☼	09/20/17 08:40	09/21/17 19:19	1
Xylenes, Total	<4.4		4.4	0.70	ug/Kg	☼	09/20/17 08:40	09/21/17 19:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		75 - 131	09/20/17 08:40	09/21/17 19:19	1
Dibromofluoromethane	104		75 - 126	09/20/17 08:40	09/21/17 19:19	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	09/20/17 08:40	09/21/17 19:19	1
Toluene-d8 (Surr)	99		75 - 124	09/20/17 08:40	09/21/17 19:19	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	☼	09/25/17 08:49	09/27/17 14:16	1
1,2-Dichlorobenzene	<200		200	48	ug/Kg	☼	09/25/17 08:49	09/27/17 14:16	1
1,3-Dichlorobenzene	<200		200	45	ug/Kg	☼	09/25/17 08:49	09/27/17 14:16	1
1,4-Dichlorobenzene	<200		200	51	ug/Kg	☼	09/25/17 08:49	09/27/17 14:16	1
2,2'-oxybis[1-chloropropane]	<200		200	46	ug/Kg	☼	09/25/17 08:49	09/27/17 14:16	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134251-1

Client Sample ID: FH-25(5-10)-091917

Lab Sample ID: 500-134251-19

Date Collected: 09/19/17 13:16

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 80.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<400		400	91	ug/Kg	☼	09/25/17 08:49	09/27/17 14:16	1
2,4,6-Trichlorophenol	<400		400	140	ug/Kg	☼	09/25/17 08:49	09/27/17 14:16	1
2,4-Dichlorophenol	<400		400	95	ug/Kg	☼	09/25/17 08:49	09/27/17 14:16	1
2,4-Dimethylphenol	<400		400	150	ug/Kg	☼	09/25/17 08:49	09/27/17 14:16	1
2,4-Dinitrophenol	<810		810	710	ug/Kg	☼	09/25/17 08:49	09/27/17 14:16	1
2,4-Dinitrotoluene	<200		200	64	ug/Kg	☼	09/25/17 08:49	09/27/17 14:16	1
2,6-Dinitrotoluene	<200		200	79	ug/Kg	☼	09/25/17 08:49	09/27/17 14:16	1
2-Chloronaphthalene	<200		200	44	ug/Kg	☼	09/25/17 08:49	09/27/17 14:16	1
2-Chlorophenol	<200		200	68	ug/Kg	☼	09/25/17 08:49	09/27/17 14:16	1
2-Methylnaphthalene	<81		81	7.4	ug/Kg	☼	09/25/17 08:49	09/27/17 14:16	1
2-Methylphenol	<200		200	64	ug/Kg	☼	09/25/17 08:49	09/27/17 14:16	1
2-Nitroaniline	<200		200	54	ug/Kg	☼	09/25/17 08:49	09/27/17 14:16	1
2-Nitrophenol	<400		400	95	ug/Kg	☼	09/25/17 08:49	09/27/17 14:16	1
3 & 4 Methylphenol	<200		200	67	ug/Kg	☼	09/25/17 08:49	09/27/17 14:16	1
3,3'-Dichlorobenzidine	<200		200	56	ug/Kg	☼	09/25/17 08:49	09/27/17 14:16	1
3-Nitroaniline	<400		400	120	ug/Kg	☼	09/25/17 08:49	09/27/17 14:16	1
4,6-Dinitro-2-methylphenol	<810		810	320	ug/Kg	☼	09/25/17 08:49	09/27/17 14:16	1
4-Bromophenyl phenyl ether	<200		200	53	ug/Kg	☼	09/25/17 08:49	09/27/17 14:16	1
4-Chloro-3-methylphenol	<400		400	140	ug/Kg	☼	09/25/17 08:49	09/27/17 14:16	1
4-Chloroaniline	<810		810	190	ug/Kg	☼	09/25/17 08:49	09/27/17 14:16	1
4-Chlorophenyl phenyl ether	<200		200	47	ug/Kg	☼	09/25/17 08:49	09/27/17 14:16	1
4-Nitroaniline	<400		400	170	ug/Kg	☼	09/25/17 08:49	09/27/17 14:16	1
4-Nitrophenol	<810		810	380	ug/Kg	☼	09/25/17 08:49	09/27/17 14:16	1
Acenaphthene	<40		40	7.2	ug/Kg	☼	09/25/17 08:49	09/27/17 14:16	1
Acenaphthylene	<40		40	5.3	ug/Kg	☼	09/25/17 08:49	09/27/17 14:16	1
Anthracene	11	J	40	6.7	ug/Kg	☼	09/25/17 08:49	09/27/17 14:16	1
Benzo[a]anthracene	50		40	5.4	ug/Kg	☼	09/25/17 08:49	09/27/17 14:16	1
Benzo[a]pyrene	57		40	7.8	ug/Kg	☼	09/25/17 08:49	09/27/17 14:16	1
Benzo[b]fluoranthene	83		40	8.6	ug/Kg	☼	09/25/17 08:49	09/27/17 14:16	1
Benzo[g,h,i]perylene	34	J	40	13	ug/Kg	☼	09/25/17 08:49	09/27/17 14:16	1
Benzo[k]fluoranthene	35	J	40	12	ug/Kg	☼	09/25/17 08:49	09/27/17 14:16	1
Bis(2-chloroethoxy)methane	<200		200	41	ug/Kg	☼	09/25/17 08:49	09/27/17 14:16	1
Bis(2-chloroethyl)ether	<200		200	60	ug/Kg	☼	09/25/17 08:49	09/27/17 14:16	1
Bis(2-ethylhexyl) phthalate	<200		200	73	ug/Kg	☼	09/25/17 08:49	09/27/17 14:16	1
Butyl benzyl phthalate	<200		200	76	ug/Kg	☼	09/25/17 08:49	09/27/17 14:16	1
Carbazole	<200		200	100	ug/Kg	☼	09/25/17 08:49	09/27/17 14:16	1
Chrysene	59		40	11	ug/Kg	☼	09/25/17 08:49	09/27/17 14:16	1
Dibenz(a,h)anthracene	13	J	40	7.7	ug/Kg	☼	09/25/17 08:49	09/27/17 14:16	1
Dibenzofuran	<200		200	47	ug/Kg	☼	09/25/17 08:49	09/27/17 14:16	1
Diethyl phthalate	<200		200	68	ug/Kg	☼	09/25/17 08:49	09/27/17 14:16	1
Dimethyl phthalate	<200		200	52	ug/Kg	☼	09/25/17 08:49	09/27/17 14:16	1
Di-n-butyl phthalate	<200		200	61	ug/Kg	☼	09/25/17 08:49	09/27/17 14:16	1
Di-n-octyl phthalate	<200		200	65	ug/Kg	☼	09/25/17 08:49	09/27/17 14:16	1
Fluoranthene	120		40	7.4	ug/Kg	☼	09/25/17 08:49	09/27/17 14:16	1
Fluorene	<40		40	5.6	ug/Kg	☼	09/25/17 08:49	09/27/17 14:16	1
Hexachlorobenzene	<81		81	9.3	ug/Kg	☼	09/25/17 08:49	09/27/17 14:16	1
Hexachlorobutadiene	<200		200	63	ug/Kg	☼	09/25/17 08:49	09/27/17 14:16	1
Hexachlorocyclopentadiene	<810		810	230	ug/Kg	☼	09/25/17 08:49	09/27/17 14:16	1
Hexachloroethane	<200		200	61	ug/Kg	☼	09/25/17 08:49	09/27/17 14:16	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134251-1

Client Sample ID: FH-25(5-10)-091917

Lab Sample ID: 500-134251-19

Date Collected: 09/19/17 13:16

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 80.5

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	32	J	40	10	ug/Kg	☼	09/25/17 08:49	09/27/17 14:16	1
Isophorone	<200		200	45	ug/Kg	☼	09/25/17 08:49	09/27/17 14:16	1
Naphthalene	<40		40	6.2	ug/Kg	☼	09/25/17 08:49	09/27/17 14:16	1
Nitrobenzene	<40		40	10	ug/Kg	☼	09/25/17 08:49	09/27/17 14:16	1
N-Nitrosodi-n-propylamine	<81		81	49	ug/Kg	☼	09/25/17 08:49	09/27/17 14:16	1
N-Nitrosodiphenylamine	<200		200	47	ug/Kg	☼	09/25/17 08:49	09/27/17 14:16	1
Pentachlorophenol	<810		810	640	ug/Kg	☼	09/25/17 08:49	09/27/17 14:16	1
Phenanthrene	61		40	5.6	ug/Kg	☼	09/25/17 08:49	09/27/17 14:16	1
Phenol	<200		200	89	ug/Kg	☼	09/25/17 08:49	09/27/17 14:16	1
Pyrene	100		40	8.0	ug/Kg	☼	09/25/17 08:49	09/27/17 14:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	52		25 - 139				09/25/17 08:49	09/27/17 14:16	1
2-Fluorobiphenyl	74		44 - 121				09/25/17 08:49	09/27/17 14:16	1
2-Fluorophenol	96		46 - 133				09/25/17 08:49	09/27/17 14:16	1
Nitrobenzene-d5	71		41 - 120				09/25/17 08:49	09/27/17 14:16	1
Phenol-d5	92		46 - 125				09/25/17 08:49	09/27/17 14:16	1
Terphenyl-d14	88		35 - 160				09/25/17 08:49	09/27/17 14:16	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		09/22/17 14:46	09/25/17 19:52	1
Barium	0.43	J	0.50	0.050	mg/L		09/22/17 14:46	09/25/17 19:52	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/22/17 14:46	09/25/17 19:52	1
Cadmium	0.0038	J	0.0050	0.0020	mg/L		09/22/17 14:46	09/25/17 19:52	1
Chromium	<0.025		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 19:52	1
Cobalt	0.050		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 19:52	1
Copper	<0.025		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 19:52	1
Iron	<0.40		0.40	0.20	mg/L		09/22/17 14:46	09/25/17 19:52	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/22/17 14:46	09/25/17 19:52	1
Manganese	13		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 19:52	1
Nickel	0.037		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 19:52	1
Selenium	<0.050		0.050	0.020	mg/L		09/22/17 14:46	09/25/17 19:52	1
Silver	<0.025		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 19:52	1
Zinc	0.053	J	0.50	0.020	mg/L		09/22/17 14:46	09/25/17 19:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/21/17 16:28	09/25/17 13:24	1
Barium	<0.50		0.50	0.050	mg/L		09/21/17 16:28	09/25/17 13:24	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/21/17 16:28	09/25/17 13:24	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/21/17 16:28	09/25/17 13:24	1
Chromium	<0.025		0.025	0.010	mg/L		09/21/17 16:28	09/25/17 13:24	1
Cobalt	<0.025		0.025	0.010	mg/L		09/21/17 16:28	09/25/17 13:24	1
Copper	<0.025		0.025	0.010	mg/L		09/21/17 16:28	09/25/17 13:24	1
Iron	2.1		0.40	0.20	mg/L		09/21/17 16:28	09/25/17 13:24	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/21/17 16:28	09/25/17 13:24	1
Manganese	0.052		0.025	0.010	mg/L		09/21/17 16:28	09/25/17 13:24	1
Nickel	<0.025		0.025	0.010	mg/L		09/21/17 16:28	09/25/17 13:24	1
Selenium	<0.050		0.050	0.020	mg/L		09/21/17 16:28	09/25/17 13:24	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134251-1

Client Sample ID: FH-25(5-10)-091917

Lab Sample ID: 500-134251-19

Date Collected: 09/19/17 13:16

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 80.5

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		09/21/17 16:28	09/25/17 13:24	1
Zinc	<0.50		0.50	0.020	mg/L		09/21/17 16:28	09/25/17 13:24	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	☼	09/20/17 17:04	09/21/17 15:54	1
Arsenic	12		0.57	0.19	mg/Kg	☼	09/20/17 17:04	09/21/17 15:54	1
Barium	70		0.57	0.064	mg/Kg	☼	09/20/17 17:04	09/21/17 15:54	1
Beryllium	0.67		0.23	0.053	mg/Kg	☼	09/20/17 17:04	09/21/17 15:54	1
Cadmium	0.33		0.11	0.020	mg/Kg	☼	09/20/17 17:04	09/21/17 15:54	1
Calcium	19000	B	11	1.9	mg/Kg	☼	09/20/17 17:04	09/21/17 15:54	1
Chromium	17		0.57	0.28	mg/Kg	☼	09/20/17 17:04	09/21/17 15:54	1
Cobalt	16		0.28	0.074	mg/Kg	☼	09/20/17 17:04	09/21/17 15:54	1
Copper	30	B	0.57	0.16	mg/Kg	☼	09/20/17 17:04	09/21/17 15:54	1
Iron	21000	B	11	5.9	mg/Kg	☼	09/20/17 17:04	09/21/17 15:54	1
Lead	33		0.28	0.13	mg/Kg	☼	09/20/17 17:04	09/21/17 15:54	1
Magnesium	15000	B	5.7	2.8	mg/Kg	☼	09/20/17 17:04	09/21/17 15:54	1
Manganese	480	B	0.57	0.082	mg/Kg	☼	09/20/17 17:04	09/21/17 15:54	1
Nickel	34		0.57	0.16	mg/Kg	☼	09/20/17 17:04	09/21/17 15:54	1
Potassium	2000		28	10	mg/Kg	☼	09/20/17 17:04	09/21/17 15:54	1
Selenium	<0.57		0.57	0.33	mg/Kg	☼	09/20/17 17:04	09/21/17 15:54	1
Silver	<0.28		0.28	0.073	mg/Kg	☼	09/20/17 17:04	09/21/17 15:54	1
Sodium	81		57	8.4	mg/Kg	☼	09/20/17 17:04	09/22/17 12:38	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	09/20/17 17:04	09/21/17 15:54	1
Vanadium	22		0.28	0.067	mg/Kg	☼	09/20/17 17:04	09/21/17 15:54	1
Zinc	61	B	1.1	0.50	mg/Kg	☼	09/20/17 17:04	09/21/17 15:54	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		09/22/17 11:15	09/25/17 09:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		09/21/17 12:42	09/22/17 11:53	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	53	B	18	6.0	ug/Kg	☼	09/22/17 16:20	09/25/17 13:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.0		0.20	0.20	SU			09/22/17 15:49	1

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134251-1

Client Sample ID: FH-25(5-10)-091917D

Lab Sample ID: 500-134251-20

Date Collected: 09/19/17 13:16

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 79.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	38		23	10	ug/Kg	☼	09/20/17 08:40	09/21/17 19:44	1
Benzene	<2.3		2.3	0.59	ug/Kg	☼	09/20/17 08:40	09/21/17 19:44	1
Bromodichloromethane	<2.3		2.3	0.47	ug/Kg	☼	09/20/17 08:40	09/21/17 19:44	1
Bromoform	<2.3		2.3	0.67	ug/Kg	☼	09/20/17 08:40	09/21/17 19:44	1
Bromomethane	<5.8		5.8	2.2	ug/Kg	☼	09/20/17 08:40	09/21/17 19:44	1
Carbon disulfide	<5.8		5.8	1.2	ug/Kg	☼	09/20/17 08:40	09/21/17 19:44	1
Carbon tetrachloride	<2.3		2.3	0.67	ug/Kg	☼	09/20/17 08:40	09/21/17 19:44	1
Chlorobenzene	<2.3		2.3	0.85	ug/Kg	☼	09/20/17 08:40	09/21/17 19:44	1
Chloroethane	<5.8 *		5.8	1.7	ug/Kg	☼	09/20/17 08:40	09/21/17 19:44	1
Chloroform	<2.3		2.3	0.80	ug/Kg	☼	09/20/17 08:40	09/21/17 19:44	1
Chloromethane	<5.8		5.8	2.3	ug/Kg	☼	09/20/17 08:40	09/21/17 19:44	1
cis-1,2-Dichloroethene	<2.3		2.3	0.64	ug/Kg	☼	09/20/17 08:40	09/21/17 19:44	1
cis-1,3-Dichloropropene	<2.3		2.3	0.69	ug/Kg	☼	09/20/17 08:40	09/21/17 19:44	1
Dibromochloromethane	<2.3		2.3	0.75	ug/Kg	☼	09/20/17 08:40	09/21/17 19:44	1
1,1-Dichloroethane	<2.3		2.3	0.79	ug/Kg	☼	09/20/17 08:40	09/21/17 19:44	1
1,2-Dichloroethane	<5.8		5.8	1.8	ug/Kg	☼	09/20/17 08:40	09/21/17 19:44	1
1,1-Dichloroethene	<2.3		2.3	0.79	ug/Kg	☼	09/20/17 08:40	09/21/17 19:44	1
1,2-Dichloropropane	<2.3		2.3	0.60	ug/Kg	☼	09/20/17 08:40	09/21/17 19:44	1
1,3-Dichloropropene, Total	<2.3		2.3	0.81	ug/Kg	☼	09/20/17 08:40	09/21/17 19:44	1
Ethylbenzene	<2.3		2.3	1.1	ug/Kg	☼	09/20/17 08:40	09/21/17 19:44	1
2-Hexanone	<5.8		5.8	1.8	ug/Kg	☼	09/20/17 08:40	09/21/17 19:44	1
Methylene Chloride	<5.8		5.8	2.3	ug/Kg	☼	09/20/17 08:40	09/21/17 19:44	1
Methyl Ethyl Ketone	<5.8		5.8	2.6	ug/Kg	☼	09/20/17 08:40	09/21/17 19:44	1
methyl isobutyl ketone	<5.8		5.8	1.7	ug/Kg	☼	09/20/17 08:40	09/21/17 19:44	1
Methyl tert-butyl ether	<2.3		2.3	0.68	ug/Kg	☼	09/20/17 08:40	09/21/17 19:44	1
Styrene	<2.3		2.3	0.70	ug/Kg	☼	09/20/17 08:40	09/21/17 19:44	1
1,1,2,2-Tetrachloroethane	<2.3		2.3	0.74	ug/Kg	☼	09/20/17 08:40	09/21/17 19:44	1
Tetrachloroethene	<2.3		2.3	0.78	ug/Kg	☼	09/20/17 08:40	09/21/17 19:44	1
Toluene	<2.3		2.3	0.58	ug/Kg	☼	09/20/17 08:40	09/21/17 19:44	1
trans-1,2-Dichloroethene	<2.3		2.3	1.0	ug/Kg	☼	09/20/17 08:40	09/21/17 19:44	1
trans-1,3-Dichloropropene	<2.3		2.3	0.81	ug/Kg	☼	09/20/17 08:40	09/21/17 19:44	1
1,1,1-Trichloroethane	<2.3		2.3	0.77	ug/Kg	☼	09/20/17 08:40	09/21/17 19:44	1
1,1,2-Trichloroethane	<2.3		2.3	0.99	ug/Kg	☼	09/20/17 08:40	09/21/17 19:44	1
Trichloroethene	<2.3		2.3	0.78	ug/Kg	☼	09/20/17 08:40	09/21/17 19:44	1
Vinyl chloride	<2.3		2.3	1.0	ug/Kg	☼	09/20/17 08:40	09/21/17 19:44	1
Xylenes, Total	<4.6		4.6	0.74	ug/Kg	☼	09/20/17 08:40	09/21/17 19:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		75 - 131	09/20/17 08:40	09/21/17 19:44	1
Dibromofluoromethane	100		75 - 126	09/20/17 08:40	09/21/17 19:44	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	09/20/17 08:40	09/21/17 19:44	1
Toluene-d8 (Surr)	99		75 - 124	09/20/17 08:40	09/21/17 19:44	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	☼	09/25/17 20:47	09/26/17 12:29	1
1,2-Dichlorobenzene	<210		210	49	ug/Kg	☼	09/25/17 20:47	09/26/17 12:29	1
1,3-Dichlorobenzene	<210		210	46	ug/Kg	☼	09/25/17 20:47	09/26/17 12:29	1
1,4-Dichlorobenzene	<210		210	53	ug/Kg	☼	09/25/17 20:47	09/26/17 12:29	1
2,2'-oxybis[1-chloropropane]	<210		210	48	ug/Kg	☼	09/25/17 20:47	09/26/17 12:29	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134251-1

Client Sample ID: FH-25(5-10)-091917D

Lab Sample ID: 500-134251-20

Date Collected: 09/19/17 13:16

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 79.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<410		410	94	ug/Kg	☼	09/25/17 20:47	09/26/17 12:29	1
2,4,6-Trichlorophenol	<410		410	140	ug/Kg	☼	09/25/17 20:47	09/26/17 12:29	1
2,4-Dichlorophenol	<410		410	98	ug/Kg	☼	09/25/17 20:47	09/26/17 12:29	1
2,4-Dimethylphenol	<410		410	160	ug/Kg	☼	09/25/17 20:47	09/26/17 12:29	1
2,4-Dinitrophenol	<830		830	730	ug/Kg	☼	09/25/17 20:47	09/26/17 12:29	1
2,4-Dinitrotoluene	<210		210	66	ug/Kg	☼	09/25/17 20:47	09/26/17 12:29	1
2,6-Dinitrotoluene	<210		210	81	ug/Kg	☼	09/25/17 20:47	09/26/17 12:29	1
2-Chloronaphthalene	<210		210	46	ug/Kg	☼	09/25/17 20:47	09/26/17 12:29	1
2-Chlorophenol	<210		210	70	ug/Kg	☼	09/25/17 20:47	09/26/17 12:29	1
2-Methylnaphthalene	<83		83	7.6	ug/Kg	☼	09/25/17 20:47	09/26/17 12:29	1
2-Methylphenol	<210		210	66	ug/Kg	☼	09/25/17 20:47	09/26/17 12:29	1
2-Nitroaniline	<210		210	56	ug/Kg	☼	09/25/17 20:47	09/26/17 12:29	1
2-Nitrophenol	<410		410	97	ug/Kg	☼	09/25/17 20:47	09/26/17 12:29	1
3 & 4 Methylphenol	<210		210	69	ug/Kg	☼	09/25/17 20:47	09/26/17 12:29	1
3,3'-Dichlorobenzidine	<210		210	58	ug/Kg	☼	09/25/17 20:47	09/26/17 12:29	1
3-Nitroaniline	<410		410	130	ug/Kg	☼	09/25/17 20:47	09/26/17 12:29	1
4,6-Dinitro-2-methylphenol	<830		830	330	ug/Kg	☼	09/25/17 20:47	09/26/17 12:29	1
4-Bromophenyl phenyl ether	<210		210	54	ug/Kg	☼	09/25/17 20:47	09/26/17 12:29	1
4-Chloro-3-methylphenol	<410		410	140	ug/Kg	☼	09/25/17 20:47	09/26/17 12:29	1
4-Chloroaniline	<830		830	190	ug/Kg	☼	09/25/17 20:47	09/26/17 12:29	1
4-Chlorophenyl phenyl ether	<210		210	48	ug/Kg	☼	09/25/17 20:47	09/26/17 12:29	1
4-Nitroaniline	<410		410	170	ug/Kg	☼	09/25/17 20:47	09/26/17 12:29	1
4-Nitrophenol	<830		830	390	ug/Kg	☼	09/25/17 20:47	09/26/17 12:29	1
Acenaphthene	<41		41	7.4	ug/Kg	☼	09/25/17 20:47	09/26/17 12:29	1
Acenaphthylene	<41		41	5.4	ug/Kg	☼	09/25/17 20:47	09/26/17 12:29	1
Anthracene	7.5 J		41	6.9	ug/Kg	☼	09/25/17 20:47	09/26/17 12:29	1
Benzo[a]anthracene	36 J		41	5.6	ug/Kg	☼	09/25/17 20:47	09/26/17 12:29	1
Benzo[a]pyrene	37 J		41	8.0	ug/Kg	☼	09/25/17 20:47	09/26/17 12:29	1
Benzo[b]fluoranthene	53		41	8.9	ug/Kg	☼	09/25/17 20:47	09/26/17 12:29	1
Benzo[g,h,i]perylene	34 J		41	13	ug/Kg	☼	09/25/17 20:47	09/26/17 12:29	1
Benzo[k]fluoranthene	25 J		41	12	ug/Kg	☼	09/25/17 20:47	09/26/17 12:29	1
Bis(2-chloroethoxy)methane	<210		210	42	ug/Kg	☼	09/25/17 20:47	09/26/17 12:29	1
Bis(2-chloroethyl)ether	<210		210	62	ug/Kg	☼	09/25/17 20:47	09/26/17 12:29	1
Bis(2-ethylhexyl) phthalate	<210		210	75	ug/Kg	☼	09/25/17 20:47	09/26/17 12:29	1
Butyl benzyl phthalate	<210		210	78	ug/Kg	☼	09/25/17 20:47	09/26/17 12:29	1
Carbazole	<210		210	100	ug/Kg	☼	09/25/17 20:47	09/26/17 12:29	1
Chrysene	43		41	11	ug/Kg	☼	09/25/17 20:47	09/26/17 12:29	1
Dibenz(a,h)anthracene	<41		41	8.0	ug/Kg	☼	09/25/17 20:47	09/26/17 12:29	1
Dibenzofuran	<210		210	48	ug/Kg	☼	09/25/17 20:47	09/26/17 12:29	1
Diethyl phthalate	<210		210	70	ug/Kg	☼	09/25/17 20:47	09/26/17 12:29	1
Dimethyl phthalate	<210		210	54	ug/Kg	☼	09/25/17 20:47	09/26/17 12:29	1
Di-n-butyl phthalate	<210		210	63	ug/Kg	☼	09/25/17 20:47	09/26/17 12:29	1
Di-n-octyl phthalate	<210		210	67	ug/Kg	☼	09/25/17 20:47	09/26/17 12:29	1
Fluoranthene	74		41	7.7	ug/Kg	☼	09/25/17 20:47	09/26/17 12:29	1
Fluorene	<41		41	5.8	ug/Kg	☼	09/25/17 20:47	09/26/17 12:29	1
Hexachlorobenzene	<83		83	9.6	ug/Kg	☼	09/25/17 20:47	09/26/17 12:29	1
Hexachlorobutadiene	<210		210	65	ug/Kg	☼	09/25/17 20:47	09/26/17 12:29	1
Hexachlorocyclopentadiene	<830		830	240	ug/Kg	☼	09/25/17 20:47	09/26/17 12:29	1
Hexachloroethane	<210		210	63	ug/Kg	☼	09/25/17 20:47	09/26/17 12:29	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134251-1

Client Sample ID: FH-25(5-10)-091917D

Lab Sample ID: 500-134251-20

Date Collected: 09/19/17 13:16

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 79.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	28	J	41	11	ug/Kg	☼	09/25/17 20:47	09/26/17 12:29	1
Isophorone	<210		210	46	ug/Kg	☼	09/25/17 20:47	09/26/17 12:29	1
Naphthalene	<41		41	6.3	ug/Kg	☼	09/25/17 20:47	09/26/17 12:29	1
Nitrobenzene	<41		41	10	ug/Kg	☼	09/25/17 20:47	09/26/17 12:29	1
N-Nitrosodi-n-propylamine	<83		83	50	ug/Kg	☼	09/25/17 20:47	09/26/17 12:29	1
N-Nitrosodiphenylamine	<210		210	49	ug/Kg	☼	09/25/17 20:47	09/26/17 12:29	1
Pentachlorophenol	<830		830	660	ug/Kg	☼	09/25/17 20:47	09/26/17 12:29	1
Phenanthrene	40	J	41	5.8	ug/Kg	☼	09/25/17 20:47	09/26/17 12:29	1
Phenol	<210		210	92	ug/Kg	☼	09/25/17 20:47	09/26/17 12:29	1
Pyrene	47		41	8.2	ug/Kg	☼	09/25/17 20:47	09/26/17 12:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	60		25 - 139				09/25/17 20:47	09/26/17 12:29	1
2-Fluorobiphenyl	62		44 - 121				09/25/17 20:47	09/26/17 12:29	1
2-Fluorophenol	84		46 - 133				09/25/17 20:47	09/26/17 12:29	1
Nitrobenzene-d5	63		41 - 120				09/25/17 20:47	09/26/17 12:29	1
Phenol-d5	75		46 - 125				09/25/17 20:47	09/26/17 12:29	1
Terphenyl-d14	77		35 - 160				09/25/17 20:47	09/26/17 12:29	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/22/17 14:46	09/25/17 19:56	1
Barium	0.43	J	0.50	0.050	mg/L		09/22/17 14:46	09/25/17 19:56	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/22/17 14:46	09/25/17 19:56	1
Cadmium	0.0033	J	0.0050	0.0020	mg/L		09/22/17 14:46	09/25/17 19:56	1
Chromium	<0.025		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 19:56	1
Cobalt	0.053		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 19:56	1
Copper	<0.025		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 19:56	1
Iron	<0.40		0.40	0.20	mg/L		09/22/17 14:46	09/25/17 19:56	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/22/17 14:46	09/25/17 19:56	1
Manganese	14		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 19:56	1
Nickel	0.036		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 19:56	1
Selenium	<0.050		0.050	0.020	mg/L		09/22/17 14:46	09/25/17 19:56	1
Silver	<0.025		0.025	0.010	mg/L		09/22/17 14:46	09/25/17 19:56	1
Zinc	0.053	J	0.50	0.020	mg/L		09/22/17 14:46	09/25/17 19:56	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		09/21/17 16:28	09/25/17 13:28	1
Barium	<0.50		0.50	0.050	mg/L		09/21/17 16:28	09/25/17 13:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/21/17 16:28	09/25/17 13:28	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/21/17 16:28	09/25/17 13:28	1
Chromium	<0.025		0.025	0.010	mg/L		09/21/17 16:28	09/25/17 13:28	1
Cobalt	<0.025		0.025	0.010	mg/L		09/21/17 16:28	09/25/17 13:28	1
Copper	<0.025		0.025	0.010	mg/L		09/21/17 16:28	09/25/17 13:28	1
Iron	1.9		0.40	0.20	mg/L		09/21/17 16:28	09/25/17 13:28	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/21/17 16:28	09/25/17 13:28	1
Manganese	0.043		0.025	0.010	mg/L		09/21/17 16:28	09/25/17 13:28	1
Nickel	<0.025		0.025	0.010	mg/L		09/21/17 16:28	09/25/17 13:28	1
Selenium	<0.050		0.050	0.020	mg/L		09/21/17 16:28	09/25/17 13:28	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134251-1

Client Sample ID: FH-25(5-10)-091917D

Lab Sample ID: 500-134251-20

Date Collected: 09/19/17 13:16

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 79.2

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		09/21/17 16:28	09/25/17 13:28	1
Zinc	<0.50		0.50	0.020	mg/L		09/21/17 16:28	09/25/17 13:28	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.3		1.3	0.24	mg/Kg	☼	09/20/17 17:04	09/21/17 15:58	1
Arsenic	9.9		0.63	0.21	mg/Kg	☼	09/20/17 17:04	09/21/17 15:58	1
Barium	71		0.63	0.071	mg/Kg	☼	09/20/17 17:04	09/21/17 15:58	1
Beryllium	0.68		0.25	0.059	mg/Kg	☼	09/20/17 17:04	09/21/17 15:58	1
Cadmium	0.30		0.13	0.023	mg/Kg	☼	09/20/17 17:04	09/21/17 15:58	1
Calcium	16000	B	13	2.1	mg/Kg	☼	09/20/17 17:04	09/21/17 15:58	1
Chromium	17		0.63	0.31	mg/Kg	☼	09/20/17 17:04	09/21/17 15:58	1
Cobalt	14		0.31	0.082	mg/Kg	☼	09/20/17 17:04	09/21/17 15:58	1
Copper	30	B	0.63	0.18	mg/Kg	☼	09/20/17 17:04	09/21/17 15:58	1
Iron	21000	B	13	6.5	mg/Kg	☼	09/20/17 17:04	09/21/17 15:58	1
Lead	31		0.31	0.14	mg/Kg	☼	09/20/17 17:04	09/21/17 15:58	1
Magnesium	13000	B	6.3	3.1	mg/Kg	☼	09/20/17 17:04	09/21/17 15:58	1
Manganese	480	B	0.63	0.091	mg/Kg	☼	09/20/17 17:04	09/21/17 15:58	1
Nickel	33		0.63	0.18	mg/Kg	☼	09/20/17 17:04	09/21/17 15:58	1
Potassium	2000		31	11	mg/Kg	☼	09/20/17 17:04	09/21/17 15:58	1
Selenium	0.42	J	0.63	0.37	mg/Kg	☼	09/20/17 17:04	09/21/17 15:58	1
Silver	<0.31		0.31	0.081	mg/Kg	☼	09/20/17 17:04	09/21/17 15:58	1
Sodium	82		63	9.3	mg/Kg	☼	09/20/17 17:04	09/22/17 12:41	1
Thallium	<0.63		0.63	0.31	mg/Kg	☼	09/20/17 17:04	09/21/17 15:58	1
Vanadium	23		0.31	0.074	mg/Kg	☼	09/20/17 17:04	09/21/17 15:58	1
Zinc	67	B	1.3	0.55	mg/Kg	☼	09/20/17 17:04	09/21/17 15:58	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		09/22/17 11:15	09/25/17 09:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20	F1	0.20	0.20	ug/L		09/21/17 12:42	09/22/17 11:54	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	55	B	19	6.5	ug/Kg	☼	09/22/17 16:20	09/25/17 13:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.9		0.20	0.20	SU			09/22/17 15:53	1

Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134251-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

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.
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.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Weston Solutions, Inc.

TestAmerica Job ID: 500-134251-1

Project/Site: IDOT - Eisenhower Expressway - WO 062

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Illinois	NELAP	5	100201	04-30-19

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

Analysis Method	Prep Method	Matrix	Analyte
8260B	5035	Solid	1,3-Dichloropropene, Total
9045D		Solid	pH
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 601
Phone: 708.534.5200 Fax: 708.534.



500-134251 COC

Report To (optional)
Contact: Babu
Company: Weston
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: _____

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

Chain of Custody Record

Lab Job #: 500-134251

Chain of Custody Number: _____

Page 1 of 4

Temperature °C of Cooler: 23.30, 21.6, 21.9

Client		Client Project #		Preservative							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
Project Name		Parameter							Comments		
Project Location/State		Lab Project #									
Sampler		Lab PM									
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	VOC	SVOC	Total Metals	TCUP/SELP Metals	pH
			Date	Time							
1		FH-1(0-6)-091917	9/19/17	0815	6	S	X	X	X	X	X
2		FH-2(0-6)-091917		0827	6	S	X	X	X	X	X
3		FH-2(6-12)-091917		0855	6	S	X	X	X	X	X
4		FH-2(12-18)-091917		0910	6	S	X	X	X	X	X
5		FH-4(0-6)-091917		0948	6	S	X	X	X	X	X
6		FH-4(6-12)-091917		0957	6	S	X	X	X	X	X
7		FH-4(12-18)-091917		1003	6	S	X	X	X	X	X
8		FH-5(0-6)-091917		1027	6	S	X	X	X	X	X
9		FH-5(0-6)-091917		1027	6	S	X	X	X	X	X
10		FH-3(0-6)-091917		1050	6	S	X	X	X	X	X

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

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

Relinquished By: <u>[Signature]</u> Weston Date: <u>9/19/17</u> Time: <u>1542</u>	Received By: <u>[Signature]</u> TA Date: <u>9/19/17</u> Time: <u>1542</u>	Lab Courier: <u>TH</u>
Relinquished By: <u>[Signature]</u> TA Date: <u>9/19/17</u> Time: <u>1645</u>	Received By: <u>[Signature]</u> TA-CH Date: <u>9/20/17</u> Time: <u>0730</u>	Shipped: _____
Relinquished By: _____ Company: _____ Date: _____ Time: _____	Received By: _____ Company: _____ Date: _____ Time: _____	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

Report To (optional)
 Contact: Babu
 Company: Weston
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: _____

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

Chain of Custody Record

Lab Job #: 500-134251
 Chain of Custody Number: _____
 Page 2 of 4
 Temperature °C of Cooler 23.3.02/1/17/17

Client		Client Project #		Preservative		Parameter		Preservative Key			
<u>Weston Solutions</u>				<u>9</u>	<u>8</u>	<u>8</u>	<u>8</u>	<u>8</u>	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		
Project Name		Lab Project #		# of Containers		Matrix		Comments			
<u>IDOT 062 Eisenhower Expressway</u>											
Project Location/State		Lab PM		Date		Time					
<u>Forest Park, IL</u>		<u>K. Wright</u>									
Sampler		Sampling		Date		Time					
<u>K. Frey</u>											
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOC	SVOC	Total Metals	SPUR/TCMP Metals	PH
<u>11</u>		<u>FH-19(0-6)-091917</u>	<u>9/19/17</u>	<u>1120</u>	<u>6</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>12</u>		<u>FH-19(6-12)-091917</u>		<u>1127</u>	<u>6</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>13</u>		<u>FH-19(12-18)-091917</u>		<u>1137</u>	<u>6</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>14</u>		<u>FH-23(0-6)-091917</u>		<u>1201</u>	<u>6</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>15</u>		<u>FH-24(0-6)-091917</u>		<u>1228</u>	<u>6</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>16</u>		<u>FH-24(5-10)-091917</u>		<u>1236</u>	<u>6</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>17</u>		<u>FH-24(10-15)-091917</u>		<u>1248</u>	<u>4</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>18</u>		<u>FH-25(0-5)-091917</u>		<u>1306</u>	<u>6</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>19</u>		<u>FH-25(5-10)-091917</u>		<u>1316</u>	<u>6</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>20</u>		<u>FH-25(5-10)-091917</u>		<u>1316</u>	<u>6</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>

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

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

Relinquished By <u>[Signature]</u> Company: <u>Weston</u> Date: <u>9/19/17</u> Time: <u>1542</u>	Received By <u>[Signature]</u> Company: <u>TA</u> Date: <u>9/19/17</u> Time: <u>1542</u>
Relinquished By <u>[Signature]</u> Company: <u>TA</u> Date: <u>9/19/17</u> Time: <u>1645</u>	Received By <u>[Signature]</u> Company: <u>TA-CHE</u> Date: <u>9/20/17</u> Time: <u>0730</u>
Relinquished By _____ Company: _____ Date: _____ Time: _____	Received By _____ Company: _____ Date: _____ Time: _____

Lab Courier: TA
 Shipped: _____
 Hand Delivered: _____

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

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: 500-134252-1

Client Project/Site: IDOT - Eisenhower Expressway - WO 062

For:

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

Attn: Mr. S. Babusukumar



Authorized for release by:
9/28/2017 11:16:47 AM

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

LINKS

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results through
TotalAccess

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134252-1

Client Sample ID: FH-25(10-15)-091917

Lab Sample ID: 500-134252-1

Date Collected: 09/19/17 13:26

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	45		19	8.4	ug/Kg	☼	09/20/17 08:40	09/21/17 19:10	1
Benzene	<1.9		1.9	0.49	ug/Kg	☼	09/20/17 08:40	09/21/17 19:10	1
Bromodichloromethane	<1.9		1.9	0.39	ug/Kg	☼	09/20/17 08:40	09/21/17 19:10	1
Bromoform	<1.9		1.9	0.56	ug/Kg	☼	09/20/17 08:40	09/21/17 19:10	1
Bromomethane	<4.8		4.8	1.8	ug/Kg	☼	09/20/17 08:40	09/21/17 19:10	1
Carbon disulfide	<4.8		4.8	1.0	ug/Kg	☼	09/20/17 08:40	09/21/17 19:10	1
Carbon tetrachloride	<1.9		1.9	0.56	ug/Kg	☼	09/20/17 08:40	09/21/17 19:10	1
Chlorobenzene	<1.9		1.9	0.71	ug/Kg	☼	09/20/17 08:40	09/21/17 19:10	1
Chloroethane	<4.8 *		4.8	1.4	ug/Kg	☼	09/20/17 08:40	09/21/17 19:10	1
Chloroform	<1.9		1.9	0.67	ug/Kg	☼	09/20/17 08:40	09/21/17 19:10	1
Chloromethane	<4.8		4.8	1.9	ug/Kg	☼	09/20/17 08:40	09/21/17 19:10	1
cis-1,2-Dichloroethene	<1.9		1.9	0.54	ug/Kg	☼	09/20/17 08:40	09/21/17 19:10	1
cis-1,3-Dichloropropene	<1.9		1.9	0.58	ug/Kg	☼	09/20/17 08:40	09/21/17 19:10	1
Dibromochloromethane	<1.9		1.9	0.63	ug/Kg	☼	09/20/17 08:40	09/21/17 19:10	1
1,1-Dichloroethane	<1.9		1.9	0.66	ug/Kg	☼	09/20/17 08:40	09/21/17 19:10	1
1,2-Dichloroethane	<4.8		4.8	1.5	ug/Kg	☼	09/20/17 08:40	09/21/17 19:10	1
1,1-Dichloroethene	<1.9		1.9	0.66	ug/Kg	☼	09/20/17 08:40	09/21/17 19:10	1
1,2-Dichloropropane	<1.9		1.9	0.50	ug/Kg	☼	09/20/17 08:40	09/21/17 19:10	1
1,3-Dichloropropene, Total	<1.9		1.9	0.68	ug/Kg	☼	09/20/17 08:40	09/21/17 19:10	1
Ethylbenzene	<1.9		1.9	0.92	ug/Kg	☼	09/20/17 08:40	09/21/17 19:10	1
2-Hexanone	<4.8		4.8	1.5	ug/Kg	☼	09/20/17 08:40	09/21/17 19:10	1
Methylene Chloride	<4.8		4.8	1.9	ug/Kg	☼	09/20/17 08:40	09/21/17 19:10	1
Methyl Ethyl Ketone	<4.8		4.8	2.1	ug/Kg	☼	09/20/17 08:40	09/21/17 19:10	1
methyl isobutyl ketone	<4.8		4.8	1.4	ug/Kg	☼	09/20/17 08:40	09/21/17 19:10	1
Methyl tert-butyl ether	<1.9		1.9	0.57	ug/Kg	☼	09/20/17 08:40	09/21/17 19:10	1
Styrene	<1.9		1.9	0.58	ug/Kg	☼	09/20/17 08:40	09/21/17 19:10	1
1,1,2,2-Tetrachloroethane	<1.9		1.9	0.62	ug/Kg	☼	09/20/17 08:40	09/21/17 19:10	1
Tetrachloroethene	<1.9		1.9	0.66	ug/Kg	☼	09/20/17 08:40	09/21/17 19:10	1
Toluene	<1.9		1.9	0.49	ug/Kg	☼	09/20/17 08:40	09/21/17 19:10	1
trans-1,2-Dichloroethene	<1.9		1.9	0.85	ug/Kg	☼	09/20/17 08:40	09/21/17 19:10	1
trans-1,3-Dichloropropene	<1.9		1.9	0.68	ug/Kg	☼	09/20/17 08:40	09/21/17 19:10	1
1,1,1-Trichloroethane	<1.9		1.9	0.65	ug/Kg	☼	09/20/17 08:40	09/21/17 19:10	1
1,1,2-Trichloroethane	<1.9		1.9	0.83	ug/Kg	☼	09/20/17 08:40	09/21/17 19:10	1
Trichloroethene	<1.9		1.9	0.65	ug/Kg	☼	09/20/17 08:40	09/21/17 19:10	1
Vinyl chloride	<1.9		1.9	0.85	ug/Kg	☼	09/20/17 08:40	09/21/17 19:10	1
Xylenes, Total	<3.9		3.9	0.62	ug/Kg	☼	09/20/17 08:40	09/21/17 19:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		75 - 131	09/20/17 08:40	09/21/17 19:10	1
Dibromofluoromethane	104		75 - 126	09/20/17 08:40	09/21/17 19:10	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134	09/20/17 08:40	09/21/17 19:10	1
Toluene-d8 (Surr)	94		75 - 124	09/20/17 08:40	09/21/17 19:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	41	ug/Kg	☼	09/25/17 08:49	09/27/17 14:39	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	09/25/17 08:49	09/27/17 14:39	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	09/25/17 08:49	09/27/17 14:39	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	09/25/17 08:49	09/27/17 14:39	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	09/25/17 08:49	09/27/17 14:39	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134252-1

Client Sample ID: FH-25(10-15)-091917

Lab Sample ID: 500-134252-1

Date Collected: 09/19/17 13:26

Matrix: Solid

Date Received: 09/19/17 16:45

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	☼	09/25/17 08:49	09/27/17 14:39	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	09/25/17 08:49	09/27/17 14:39	1
2,4-Dichlorophenol	<370		370	89	ug/Kg	☼	09/25/17 08:49	09/27/17 14:39	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	09/25/17 08:49	09/27/17 14:39	1
2,4-Dinitrophenol	<760		760	660	ug/Kg	☼	09/25/17 08:49	09/27/17 14:39	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	09/25/17 08:49	09/27/17 14:39	1
2,6-Dinitrotoluene	<190		190	74	ug/Kg	☼	09/25/17 08:49	09/27/17 14:39	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	09/25/17 08:49	09/27/17 14:39	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	09/25/17 08:49	09/27/17 14:39	1
2-Methylnaphthalene	16	J	76	6.9	ug/Kg	☼	09/25/17 08:49	09/27/17 14:39	1
2-Methylphenol	<190		190	60	ug/Kg	☼	09/25/17 08:49	09/27/17 14:39	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	09/25/17 08:49	09/27/17 14:39	1
2-Nitrophenol	<370		370	89	ug/Kg	☼	09/25/17 08:49	09/27/17 14:39	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	09/25/17 08:49	09/27/17 14:39	1
3,3'-Dichlorobenzidine	<190		190	53	ug/Kg	☼	09/25/17 08:49	09/27/17 14:39	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	09/25/17 08:49	09/27/17 14:39	1
4,6-Dinitro-2-methylphenol	<760		760	300	ug/Kg	☼	09/25/17 08:49	09/27/17 14:39	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	09/25/17 08:49	09/27/17 14:39	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	09/25/17 08:49	09/27/17 14:39	1
4-Chloroaniline	<760		760	180	ug/Kg	☼	09/25/17 08:49	09/27/17 14:39	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	09/25/17 08:49	09/27/17 14:39	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	09/25/17 08:49	09/27/17 14:39	1
4-Nitrophenol	<760		760	360	ug/Kg	☼	09/25/17 08:49	09/27/17 14:39	1
Acenaphthene	58		37	6.8	ug/Kg	☼	09/25/17 08:49	09/27/17 14:39	1
Acenaphthylene	16	J	37	5.0	ug/Kg	☼	09/25/17 08:49	09/27/17 14:39	1
Anthracene	270		37	6.3	ug/Kg	☼	09/25/17 08:49	09/27/17 14:39	1
Benzo[a]anthracene	700		37	5.1	ug/Kg	☼	09/25/17 08:49	09/27/17 14:39	1
Benzo[a]pyrene	580		37	7.3	ug/Kg	☼	09/25/17 08:49	09/27/17 14:39	1
Benzo[b]fluoranthene	770		37	8.1	ug/Kg	☼	09/25/17 08:49	09/27/17 14:39	1
Benzo[g,h,i]perylene	240		37	12	ug/Kg	☼	09/25/17 08:49	09/27/17 14:39	1
Benzo[k]fluoranthene	420		37	11	ug/Kg	☼	09/25/17 08:49	09/27/17 14:39	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	09/25/17 08:49	09/27/17 14:39	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	09/25/17 08:49	09/27/17 14:39	1
Bis(2-ethylhexyl) phthalate	<190		190	69	ug/Kg	☼	09/25/17 08:49	09/27/17 14:39	1
Butyl benzyl phthalate	<190		190	72	ug/Kg	☼	09/25/17 08:49	09/27/17 14:39	1
Carbazole	<190		190	94	ug/Kg	☼	09/25/17 08:49	09/27/17 14:39	1
Chrysene	720		37	10	ug/Kg	☼	09/25/17 08:49	09/27/17 14:39	1
Dibenz(a,h)anthracene	84		37	7.3	ug/Kg	☼	09/25/17 08:49	09/27/17 14:39	1
Dibenzofuran	49	J	190	44	ug/Kg	☼	09/25/17 08:49	09/27/17 14:39	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	09/25/17 08:49	09/27/17 14:39	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	09/25/17 08:49	09/27/17 14:39	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	09/25/17 08:49	09/27/17 14:39	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	09/25/17 08:49	09/27/17 14:39	1
Fluoranthene	1600		37	7.0	ug/Kg	☼	09/25/17 08:49	09/27/17 14:39	1
Fluorene	140		37	5.3	ug/Kg	☼	09/25/17 08:49	09/27/17 14:39	1
Hexachlorobenzene	<76		76	8.7	ug/Kg	☼	09/25/17 08:49	09/27/17 14:39	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	09/25/17 08:49	09/27/17 14:39	1
Hexachlorocyclopentadiene	<760		760	220	ug/Kg	☼	09/25/17 08:49	09/27/17 14:39	1
Hexachloroethane	<190		190	57	ug/Kg	☼	09/25/17 08:49	09/27/17 14:39	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134252-1

Client Sample ID: FH-25(10-15)-091917

Lab Sample ID: 500-134252-1

Date Collected: 09/19/17 13:26

Matrix: Solid

Date Received: 09/19/17 16:45

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	250		37	9.8	ug/Kg	☼	09/25/17 08:49	09/27/17 14:39	1
Isophorone	<190		190	42	ug/Kg	☼	09/25/17 08:49	09/27/17 14:39	1
Naphthalene	13 J		37	5.8	ug/Kg	☼	09/25/17 08:49	09/27/17 14:39	1
Nitrobenzene	<37		37	9.4	ug/Kg	☼	09/25/17 08:49	09/27/17 14:39	1
N-Nitrosodi-n-propylamine	<76		76	46	ug/Kg	☼	09/25/17 08:49	09/27/17 14:39	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	09/25/17 08:49	09/27/17 14:39	1
Pentachlorophenol	<760		760	600	ug/Kg	☼	09/25/17 08:49	09/27/17 14:39	1
Phenanthrene	1300		37	5.3	ug/Kg	☼	09/25/17 08:49	09/27/17 14:39	1
Phenol	<190		190	84	ug/Kg	☼	09/25/17 08:49	09/27/17 14:39	1
Pyrene	1300		37	7.5	ug/Kg	☼	09/25/17 08:49	09/27/17 14:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	69		25 - 139				09/25/17 08:49	09/27/17 14:39	1
2-Fluorobiphenyl	72		44 - 121				09/25/17 08:49	09/27/17 14:39	1
2-Fluorophenol	99		46 - 133				09/25/17 08:49	09/27/17 14:39	1
Nitrobenzene-d5	72		41 - 120				09/25/17 08:49	09/27/17 14:39	1
Phenol-d5	95		46 - 125				09/25/17 08:49	09/27/17 14:39	1
Terphenyl-d14	91		35 - 160				09/25/17 08:49	09/27/17 14:39	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.010 J		0.050	0.010	mg/L		09/22/17 14:49	09/25/17 20:23	1
Barium	0.46 J		0.50	0.050	mg/L		09/22/17 14:49	09/25/17 20:23	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/22/17 14:49	09/25/17 20:23	1
Cadmium	0.0034 J		0.0050	0.0020	mg/L		09/22/17 14:49	09/25/17 20:23	1
Chromium	<0.025		0.025	0.010	mg/L		09/22/17 14:49	09/25/17 20:23	1
Cobalt	0.043		0.025	0.010	mg/L		09/22/17 14:49	09/25/17 20:23	1
Copper	0.026		0.025	0.010	mg/L		09/22/17 14:49	09/25/17 20:23	1
Iron	<0.40		0.40	0.20	mg/L		09/22/17 14:49	09/25/17 20:23	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/22/17 14:49	09/25/17 20:23	1
Manganese	12		0.025	0.010	mg/L		09/22/17 14:49	09/25/17 20:23	1
Nickel	0.032		0.025	0.010	mg/L		09/22/17 14:49	09/25/17 20:23	1
Selenium	<0.050		0.050	0.020	mg/L		09/22/17 14:49	09/25/17 20:23	1
Silver	<0.025		0.025	0.010	mg/L		09/22/17 14:49	09/25/17 20:23	1
Zinc	0.056 J		0.50	0.020	mg/L		09/22/17 14:49	09/25/17 20:23	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		09/22/17 14:51	09/25/17 17:11	1
Barium	<0.50		0.50	0.050	mg/L		09/22/17 14:51	09/25/17 17:11	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/22/17 14:51	09/25/17 17:11	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/22/17 14:51	09/25/17 17:11	1
Chromium	<0.025		0.025	0.010	mg/L		09/22/17 14:51	09/25/17 17:11	1
Cobalt	<0.025		0.025	0.010	mg/L		09/22/17 14:51	09/25/17 17:11	1
Copper	<0.025		0.025	0.010	mg/L		09/22/17 14:51	09/25/17 17:11	1
Iron	0.99		0.40	0.20	mg/L		09/22/17 14:51	09/25/17 17:11	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/22/17 14:51	09/25/17 17:11	1
Manganese	<0.025		0.025	0.010	mg/L		09/22/17 14:51	09/25/17 17:11	1
Nickel	<0.025		0.025	0.010	mg/L		09/22/17 14:51	09/25/17 17:11	1
Selenium	<0.050		0.050	0.020	mg/L		09/22/17 14:51	09/25/17 17:11	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134252-1

Client Sample ID: FH-25(10-15)-091917

Lab Sample ID: 500-134252-1

Date Collected: 09/19/17 13:26

Matrix: Solid

Date Received: 09/19/17 16:45

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		09/22/17 14:51	09/25/17 17:11	1
Zinc	<0.50		0.50	0.020	mg/L		09/22/17 14:51	09/25/17 17:11	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.60	J	1.1	0.22	mg/Kg	☼	09/20/17 17:00	09/21/17 12:13	1
Arsenic	7.2		0.56	0.19	mg/Kg	☼	09/20/17 17:00	09/21/17 12:13	1
Barium	50		0.56	0.064	mg/Kg	☼	09/20/17 17:00	09/21/17 12:13	1
Beryllium	0.66		0.23	0.053	mg/Kg	☼	09/20/17 17:00	09/21/17 12:13	1
Cadmium	0.022	J B	0.11	0.020	mg/Kg	☼	09/20/17 17:00	09/21/17 12:13	1
Calcium	26000	B	11	1.9	mg/Kg	☼	09/20/17 17:00	09/21/17 12:13	1
Chromium	19		0.56	0.28	mg/Kg	☼	09/20/17 17:00	09/21/17 12:13	1
Cobalt	17		0.28	0.074	mg/Kg	☼	09/20/17 17:00	09/21/17 12:13	1
Copper	26		0.56	0.16	mg/Kg	☼	09/20/17 17:00	09/21/17 12:13	1
Iron	21000		11	5.9	mg/Kg	☼	09/20/17 17:00	09/21/17 12:13	1
Lead	20		0.28	0.13	mg/Kg	☼	09/20/17 17:00	09/21/17 12:13	1
Magnesium	16000		5.6	2.8	mg/Kg	☼	09/20/17 17:00	09/21/17 12:13	1
Manganese	610		0.56	0.082	mg/Kg	☼	09/20/17 17:00	09/21/17 12:13	1
Nickel	35		0.56	0.16	mg/Kg	☼	09/20/17 17:00	09/21/17 12:13	1
Potassium	2700		28	10	mg/Kg	☼	09/20/17 17:00	09/21/17 12:13	1
Selenium	<0.56		0.56	0.33	mg/Kg	☼	09/20/17 17:00	09/21/17 12:13	1
Silver	<0.28		0.28	0.073	mg/Kg	☼	09/20/17 17:00	09/21/17 12:13	1
Sodium	91		56	8.4	mg/Kg	☼	09/20/17 17:00	09/21/17 12:13	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	09/20/17 17:00	09/21/17 12:13	1
Vanadium	24		0.28	0.067	mg/Kg	☼	09/20/17 17:00	09/21/17 12:13	1
Zinc	63		1.1	0.50	mg/Kg	☼	09/20/17 17:00	09/21/17 12:13	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		09/22/17 11:15	09/25/17 09:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		09/22/17 11:15	09/25/17 10:12	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	34		19	6.4	ug/Kg	☼	09/22/17 16:20	09/25/17 13:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.9		0.20	0.20	SU			09/22/17 15:58	1

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134252-1

Client Sample ID: FH-25(15-20)-091917

Lab Sample ID: 500-134252-2

Date Collected: 09/19/17 13:41

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 72.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	42		22	9.5	ug/Kg	☼	09/20/17 08:40	09/21/17 19:35	1
Benzene	<2.2		2.2	0.56	ug/Kg	☼	09/20/17 08:40	09/21/17 19:35	1
Bromodichloromethane	<2.2		2.2	0.44	ug/Kg	☼	09/20/17 08:40	09/21/17 19:35	1
Bromoform	<2.2		2.2	0.64	ug/Kg	☼	09/20/17 08:40	09/21/17 19:35	1
Bromomethane	<5.4		5.4	2.1	ug/Kg	☼	09/20/17 08:40	09/21/17 19:35	1
Carbon disulfide	<5.4		5.4	1.1	ug/Kg	☼	09/20/17 08:40	09/21/17 19:35	1
Carbon tetrachloride	<2.2		2.2	0.63	ug/Kg	☼	09/20/17 08:40	09/21/17 19:35	1
Chlorobenzene	<2.2		2.2	0.80	ug/Kg	☼	09/20/17 08:40	09/21/17 19:35	1
Chloroethane	<5.4 *		5.4	1.6	ug/Kg	☼	09/20/17 08:40	09/21/17 19:35	1
Chloroform	<2.2		2.2	0.76	ug/Kg	☼	09/20/17 08:40	09/21/17 19:35	1
Chloromethane	<5.4		5.4	2.2	ug/Kg	☼	09/20/17 08:40	09/21/17 19:35	1
cis-1,2-Dichloroethene	<2.2		2.2	0.61	ug/Kg	☼	09/20/17 08:40	09/21/17 19:35	1
cis-1,3-Dichloropropene	<2.2		2.2	0.66	ug/Kg	☼	09/20/17 08:40	09/21/17 19:35	1
Dibromochloromethane	<2.2		2.2	0.71	ug/Kg	☼	09/20/17 08:40	09/21/17 19:35	1
1,1-Dichloroethane	<2.2		2.2	0.75	ug/Kg	☼	09/20/17 08:40	09/21/17 19:35	1
1,2-Dichloroethane	<5.4		5.4	1.7	ug/Kg	☼	09/20/17 08:40	09/21/17 19:35	1
1,1-Dichloroethene	<2.2		2.2	0.75	ug/Kg	☼	09/20/17 08:40	09/21/17 19:35	1
1,2-Dichloropropane	<2.2		2.2	0.56	ug/Kg	☼	09/20/17 08:40	09/21/17 19:35	1
1,3-Dichloropropane, Total	<2.2		2.2	0.77	ug/Kg	☼	09/20/17 08:40	09/21/17 19:35	1
Ethylbenzene	<2.2		2.2	1.0	ug/Kg	☼	09/20/17 08:40	09/21/17 19:35	1
2-Hexanone	<5.4		5.4	1.7	ug/Kg	☼	09/20/17 08:40	09/21/17 19:35	1
Methylene Chloride	<5.4		5.4	2.1	ug/Kg	☼	09/20/17 08:40	09/21/17 19:35	1
Methyl Ethyl Ketone	<5.4		5.4	2.4	ug/Kg	☼	09/20/17 08:40	09/21/17 19:35	1
methyl isobutyl ketone	<5.4		5.4	1.6	ug/Kg	☼	09/20/17 08:40	09/21/17 19:35	1
Methyl tert-butyl ether	<2.2		2.2	0.64	ug/Kg	☼	09/20/17 08:40	09/21/17 19:35	1
Styrene	<2.2		2.2	0.66	ug/Kg	☼	09/20/17 08:40	09/21/17 19:35	1
1,1,2,2-Tetrachloroethane	<2.2		2.2	0.70	ug/Kg	☼	09/20/17 08:40	09/21/17 19:35	1
Tetrachloroethene	<2.2		2.2	0.74	ug/Kg	☼	09/20/17 08:40	09/21/17 19:35	1
Toluene	<2.2		2.2	0.55	ug/Kg	☼	09/20/17 08:40	09/21/17 19:35	1
trans-1,2-Dichloroethene	<2.2		2.2	0.97	ug/Kg	☼	09/20/17 08:40	09/21/17 19:35	1
trans-1,3-Dichloropropene	<2.2		2.2	0.77	ug/Kg	☼	09/20/17 08:40	09/21/17 19:35	1
1,1,1-Trichloroethane	<2.2		2.2	0.73	ug/Kg	☼	09/20/17 08:40	09/21/17 19:35	1
1,1,2-Trichloroethane	<2.2		2.2	0.94	ug/Kg	☼	09/20/17 08:40	09/21/17 19:35	1
Trichloroethene	<2.2		2.2	0.74	ug/Kg	☼	09/20/17 08:40	09/21/17 19:35	1
Vinyl chloride	<2.2		2.2	0.96	ug/Kg	☼	09/20/17 08:40	09/21/17 19:35	1
Xylenes, Total	<4.4		4.4	0.70	ug/Kg	☼	09/20/17 08:40	09/21/17 19:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		75 - 131	09/20/17 08:40	09/21/17 19:35	1
Dibromofluoromethane	103		75 - 126	09/20/17 08:40	09/21/17 19:35	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	09/20/17 08:40	09/21/17 19:35	1
Toluene-d8 (Surr)	101		75 - 124	09/20/17 08:40	09/21/17 19:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<230		230	49	ug/Kg	☼	09/25/17 08:49	09/27/17 15:02	1
1,2-Dichlorobenzene	<230		230	54	ug/Kg	☼	09/25/17 08:49	09/27/17 15:02	1
1,3-Dichlorobenzene	<230		230	51	ug/Kg	☼	09/25/17 08:49	09/27/17 15:02	1
1,4-Dichlorobenzene	<230		230	58	ug/Kg	☼	09/25/17 08:49	09/27/17 15:02	1
2,2'-oxybis[1-chloropropane]	<230		230	53	ug/Kg	☼	09/25/17 08:49	09/27/17 15:02	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134252-1

Client Sample ID: FH-25(15-20)-091917

Lab Sample ID: 500-134252-2

Date Collected: 09/19/17 13:41

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 72.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<450		450	100	ug/Kg	☼	09/25/17 08:49	09/27/17 15:02	1
2,4,6-Trichlorophenol	<450		450	160	ug/Kg	☼	09/25/17 08:49	09/27/17 15:02	1
2,4-Dichlorophenol	<450		450	110	ug/Kg	☼	09/25/17 08:49	09/27/17 15:02	1
2,4-Dimethylphenol	<450		450	170	ug/Kg	☼	09/25/17 08:49	09/27/17 15:02	1
2,4-Dinitrophenol	<920		920	800	ug/Kg	☼	09/25/17 08:49	09/27/17 15:02	1
2,4-Dinitrotoluene	<230		230	72	ug/Kg	☼	09/25/17 08:49	09/27/17 15:02	1
2,6-Dinitrotoluene	<230		230	90	ug/Kg	☼	09/25/17 08:49	09/27/17 15:02	1
2-Chloronaphthalene	<230		230	50	ug/Kg	☼	09/25/17 08:49	09/27/17 15:02	1
2-Chlorophenol	<230		230	78	ug/Kg	☼	09/25/17 08:49	09/27/17 15:02	1
2-Methylnaphthalene	<92		92	8.4	ug/Kg	☼	09/25/17 08:49	09/27/17 15:02	1
2-Methylphenol	<230		230	73	ug/Kg	☼	09/25/17 08:49	09/27/17 15:02	1
2-Nitroaniline	<230		230	61	ug/Kg	☼	09/25/17 08:49	09/27/17 15:02	1
2-Nitrophenol	<450		450	110	ug/Kg	☼	09/25/17 08:49	09/27/17 15:02	1
3 & 4 Methylphenol	<230		230	76	ug/Kg	☼	09/25/17 08:49	09/27/17 15:02	1
3,3'-Dichlorobenzidine	<230		230	64	ug/Kg	☼	09/25/17 08:49	09/27/17 15:02	1
3-Nitroaniline	<450		450	140	ug/Kg	☼	09/25/17 08:49	09/27/17 15:02	1
4,6-Dinitro-2-methylphenol	<920		920	370	ug/Kg	☼	09/25/17 08:49	09/27/17 15:02	1
4-Bromophenyl phenyl ether	<230		230	60	ug/Kg	☼	09/25/17 08:49	09/27/17 15:02	1
4-Chloro-3-methylphenol	<450		450	150	ug/Kg	☼	09/25/17 08:49	09/27/17 15:02	1
4-Chloroaniline	<920		920	210	ug/Kg	☼	09/25/17 08:49	09/27/17 15:02	1
4-Chlorophenyl phenyl ether	<230		230	53	ug/Kg	☼	09/25/17 08:49	09/27/17 15:02	1
4-Nitroaniline	<450		450	190	ug/Kg	☼	09/25/17 08:49	09/27/17 15:02	1
4-Nitrophenol	<920		920	430	ug/Kg	☼	09/25/17 08:49	09/27/17 15:02	1
Acenaphthene	<45		45	8.2	ug/Kg	☼	09/25/17 08:49	09/27/17 15:02	1
Acenaphthylene	<45		45	6.0	ug/Kg	☼	09/25/17 08:49	09/27/17 15:02	1
Anthracene	11 J		45	7.6	ug/Kg	☼	09/25/17 08:49	09/27/17 15:02	1
Benzo[a]anthracene	43 J		45	6.1	ug/Kg	☼	09/25/17 08:49	09/27/17 15:02	1
Benzo[a]pyrene	52		45	8.8	ug/Kg	☼	09/25/17 08:49	09/27/17 15:02	1
Benzo[b]fluoranthene	70		45	9.8	ug/Kg	☼	09/25/17 08:49	09/27/17 15:02	1
Benzo[g,h,i]perylene	27 J		45	15	ug/Kg	☼	09/25/17 08:49	09/27/17 15:02	1
Benzo[k]fluoranthene	30 J		45	13	ug/Kg	☼	09/25/17 08:49	09/27/17 15:02	1
Bis(2-chloroethoxy)methane	<230		230	46	ug/Kg	☼	09/25/17 08:49	09/27/17 15:02	1
Bis(2-chloroethyl)ether	<230		230	68	ug/Kg	☼	09/25/17 08:49	09/27/17 15:02	1
Bis(2-ethylhexyl) phthalate	<230		230	83	ug/Kg	☼	09/25/17 08:49	09/27/17 15:02	1
Butyl benzyl phthalate	<230		230	87	ug/Kg	☼	09/25/17 08:49	09/27/17 15:02	1
Carbazole	<230		230	110	ug/Kg	☼	09/25/17 08:49	09/27/17 15:02	1
Chrysene	52		45	12	ug/Kg	☼	09/25/17 08:49	09/27/17 15:02	1
Dibenz(a,h)anthracene	13 J		45	8.8	ug/Kg	☼	09/25/17 08:49	09/27/17 15:02	1
Dibenzofuran	<230		230	53	ug/Kg	☼	09/25/17 08:49	09/27/17 15:02	1
Diethyl phthalate	<230		230	77	ug/Kg	☼	09/25/17 08:49	09/27/17 15:02	1
Dimethyl phthalate	<230		230	60	ug/Kg	☼	09/25/17 08:49	09/27/17 15:02	1
Di-n-butyl phthalate	<230		230	69	ug/Kg	☼	09/25/17 08:49	09/27/17 15:02	1
Di-n-octyl phthalate	<230		230	74	ug/Kg	☼	09/25/17 08:49	09/27/17 15:02	1
Fluoranthene	84		45	8.4	ug/Kg	☼	09/25/17 08:49	09/27/17 15:02	1
Fluorene	<45		45	6.4	ug/Kg	☼	09/25/17 08:49	09/27/17 15:02	1
Hexachlorobenzene	<92		92	11	ug/Kg	☼	09/25/17 08:49	09/27/17 15:02	1
Hexachlorobutadiene	<230		230	72	ug/Kg	☼	09/25/17 08:49	09/27/17 15:02	1
Hexachlorocyclopentadiene	<920		920	260	ug/Kg	☼	09/25/17 08:49	09/27/17 15:02	1
Hexachloroethane	<230		230	69	ug/Kg	☼	09/25/17 08:49	09/27/17 15:02	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134252-1

Client Sample ID: FH-25(15-20)-091917

Lab Sample ID: 500-134252-2

Date Collected: 09/19/17 13:41

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 72.8

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	28	J	45	12	ug/Kg	☼	09/25/17 08:49	09/27/17 15:02	1
Isophorone	<230		230	51	ug/Kg	☼	09/25/17 08:49	09/27/17 15:02	1
Naphthalene	<45		45	7.0	ug/Kg	☼	09/25/17 08:49	09/27/17 15:02	1
Nitrobenzene	<45		45	11	ug/Kg	☼	09/25/17 08:49	09/27/17 15:02	1
N-Nitrosodi-n-propylamine	<92		92	56	ug/Kg	☼	09/25/17 08:49	09/27/17 15:02	1
N-Nitrosodiphenylamine	<230		230	54	ug/Kg	☼	09/25/17 08:49	09/27/17 15:02	1
Pentachlorophenol	<920		920	730	ug/Kg	☼	09/25/17 08:49	09/27/17 15:02	1
Phenanthrene	46		45	6.3	ug/Kg	☼	09/25/17 08:49	09/27/17 15:02	1
Phenol	<230		230	100	ug/Kg	☼	09/25/17 08:49	09/27/17 15:02	1
Pyrene	74		45	9.0	ug/Kg	☼	09/25/17 08:49	09/27/17 15:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>2,4,6-Tribromophenol</i>	74		25 - 139				09/25/17 08:49	09/27/17 15:02	1
<i>2-Fluorobiphenyl</i>	73		44 - 121				09/25/17 08:49	09/27/17 15:02	1
<i>2-Fluorophenol</i>	97		46 - 133				09/25/17 08:49	09/27/17 15:02	1
<i>Nitrobenzene-d5</i>	73		41 - 120				09/25/17 08:49	09/27/17 15:02	1
<i>Phenol-d5</i>	93		46 - 125				09/25/17 08:49	09/27/17 15:02	1
<i>Terphenyl-d14</i>	90		35 - 160				09/25/17 08:49	09/27/17 15:02	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.016	J	0.050	0.010	mg/L		09/22/17 14:49	09/25/17 20:27	1
Barium	0.46	J	0.50	0.050	mg/L		09/22/17 14:49	09/25/17 20:27	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/22/17 14:49	09/25/17 20:27	1
Cadmium	0.0036	J	0.0050	0.0020	mg/L		09/22/17 14:49	09/25/17 20:27	1
Chromium	<0.025		0.025	0.010	mg/L		09/22/17 14:49	09/25/17 20:27	1
Cobalt	0.052		0.025	0.010	mg/L		09/22/17 14:49	09/25/17 20:27	1
Copper	<0.025		0.025	0.010	mg/L		09/22/17 14:49	09/25/17 20:27	1
Iron	<0.40		0.40	0.20	mg/L		09/22/17 14:49	09/25/17 20:27	1
Lead	0.018		0.0075	0.0075	mg/L		09/22/17 14:49	09/25/17 20:27	1
Manganese	10		0.025	0.010	mg/L		09/22/17 14:49	09/25/17 20:27	1
Nickel	0.038		0.025	0.010	mg/L		09/22/17 14:49	09/25/17 20:27	1
Selenium	<0.050		0.050	0.020	mg/L		09/22/17 14:49	09/25/17 20:27	1
Silver	<0.025		0.025	0.010	mg/L		09/22/17 14:49	09/25/17 20:27	1
Zinc	0.14	J	0.50	0.020	mg/L		09/22/17 14:49	09/25/17 20:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/22/17 14:51	09/25/17 17:15	1
Barium	0.055	J	0.50	0.050	mg/L		09/22/17 14:51	09/25/17 17:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/22/17 14:51	09/25/17 17:15	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/22/17 14:51	09/25/17 17:15	1
Chromium	<0.025		0.025	0.010	mg/L		09/22/17 14:51	09/25/17 17:15	1
Cobalt	<0.025		0.025	0.010	mg/L		09/22/17 14:51	09/25/17 17:15	1
Copper	0.015	J	0.025	0.010	mg/L		09/22/17 14:51	09/25/17 17:15	1
Iron	9.1		0.40	0.20	mg/L		09/22/17 14:51	09/25/17 17:15	1
Lead	0.011		0.0075	0.0075	mg/L		09/22/17 14:51	09/25/17 17:15	1
Manganese	0.14		0.025	0.010	mg/L		09/22/17 14:51	09/25/17 17:15	1
Nickel	<0.025		0.025	0.010	mg/L		09/22/17 14:51	09/25/17 17:15	1
Selenium	<0.050		0.050	0.020	mg/L		09/22/17 14:51	09/25/17 17:15	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134252-1

Client Sample ID: FH-25(15-20)-091917

Lab Sample ID: 500-134252-2

Date Collected: 09/19/17 13:41

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 72.8

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		09/22/17 14:51	09/25/17 17:15	1
Zinc	0.024	J	0.50	0.020	mg/L		09/22/17 14:51	09/25/17 17:15	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.53	J	1.3	0.26	mg/Kg	☼	09/20/17 17:00	09/21/17 12:26	1
Arsenic	9.6		0.67	0.23	mg/Kg	☼	09/20/17 17:00	09/21/17 12:26	1
Barium	80		0.67	0.076	mg/Kg	☼	09/20/17 17:00	09/21/17 12:26	1
Beryllium	0.86		0.27	0.062	mg/Kg	☼	09/20/17 17:00	09/21/17 12:26	1
Cadmium	0.25	B	0.13	0.024	mg/Kg	☼	09/20/17 17:00	09/21/17 12:26	1
Calcium	17000	B	13	2.3	mg/Kg	☼	09/20/17 17:00	09/21/17 12:26	1
Chromium	21		0.67	0.33	mg/Kg	☼	09/20/17 17:00	09/21/17 12:26	1
Cobalt	17		0.33	0.087	mg/Kg	☼	09/20/17 17:00	09/21/17 12:26	1
Copper	39		0.67	0.19	mg/Kg	☼	09/20/17 17:00	09/21/17 12:26	1
Iron	23000		13	6.9	mg/Kg	☼	09/20/17 17:00	09/21/17 12:26	1
Lead	58		0.33	0.15	mg/Kg	☼	09/20/17 17:00	09/21/17 12:26	1
Magnesium	11000		6.7	3.3	mg/Kg	☼	09/20/17 17:00	09/21/17 12:26	1
Manganese	480		0.67	0.097	mg/Kg	☼	09/20/17 17:00	09/21/17 12:26	1
Nickel	41		0.67	0.19	mg/Kg	☼	09/20/17 17:00	09/21/17 12:26	1
Potassium	2800		33	12	mg/Kg	☼	09/20/17 17:00	09/21/17 12:26	1
Selenium	<0.67		0.67	0.39	mg/Kg	☼	09/20/17 17:00	09/21/17 12:26	1
Silver	<0.33		0.33	0.086	mg/Kg	☼	09/20/17 17:00	09/21/17 12:26	1
Sodium	90		67	9.9	mg/Kg	☼	09/20/17 17:00	09/21/17 12:26	1
Thallium	<0.67		0.67	0.33	mg/Kg	☼	09/20/17 17:00	09/21/17 12:26	1
Vanadium	29		0.33	0.079	mg/Kg	☼	09/20/17 17:00	09/21/17 12:26	1
Zinc	100		1.3	0.58	mg/Kg	☼	09/20/17 17:00	09/21/17 12:26	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		09/22/17 11:15	09/25/17 09:45	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		09/22/17 11:15	09/25/17 10:17	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	72		21	7.1	ug/Kg	☼	09/22/17 16:20	09/25/17 13:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.1		0.20	0.20	SU			09/22/17 16:02	1

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134252-1

Client Sample ID: FH-25(20-25)-091917

Lab Sample ID: 500-134252-3

Date Collected: 09/19/17 13:52

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	52		19	8.3	ug/Kg	☼	09/20/17 08:40	09/21/17 20:00	1
Benzene	<1.9		1.9	0.49	ug/Kg	☼	09/20/17 08:40	09/21/17 20:00	1
Bromodichloromethane	<1.9		1.9	0.39	ug/Kg	☼	09/20/17 08:40	09/21/17 20:00	1
Bromoform	<1.9		1.9	0.56	ug/Kg	☼	09/20/17 08:40	09/21/17 20:00	1
Bromomethane	<4.8		4.8	1.8	ug/Kg	☼	09/20/17 08:40	09/21/17 20:00	1
Carbon disulfide	<4.8		4.8	0.99	ug/Kg	☼	09/20/17 08:40	09/21/17 20:00	1
Carbon tetrachloride	<1.9		1.9	0.55	ug/Kg	☼	09/20/17 08:40	09/21/17 20:00	1
Chlorobenzene	<1.9		1.9	0.70	ug/Kg	☼	09/20/17 08:40	09/21/17 20:00	1
Chloroethane	<4.8 *		4.8	1.4	ug/Kg	☼	09/20/17 08:40	09/21/17 20:00	1
Chloroform	<1.9		1.9	0.66	ug/Kg	☼	09/20/17 08:40	09/21/17 20:00	1
Chloromethane	<4.8		4.8	1.9	ug/Kg	☼	09/20/17 08:40	09/21/17 20:00	1
cis-1,2-Dichloroethene	<1.9		1.9	0.53	ug/Kg	☼	09/20/17 08:40	09/21/17 20:00	1
cis-1,3-Dichloropropene	<1.9		1.9	0.58	ug/Kg	☼	09/20/17 08:40	09/21/17 20:00	1
Dibromochloromethane	<1.9		1.9	0.62	ug/Kg	☼	09/20/17 08:40	09/21/17 20:00	1
1,1-Dichloroethane	<1.9		1.9	0.65	ug/Kg	☼	09/20/17 08:40	09/21/17 20:00	1
1,2-Dichloroethane	<4.8		4.8	1.5	ug/Kg	☼	09/20/17 08:40	09/21/17 20:00	1
1,1-Dichloroethene	<1.9		1.9	0.66	ug/Kg	☼	09/20/17 08:40	09/21/17 20:00	1
1,2-Dichloropropane	<1.9		1.9	0.49	ug/Kg	☼	09/20/17 08:40	09/21/17 20:00	1
1,3-Dichloropropene, Total	<1.9		1.9	0.67	ug/Kg	☼	09/20/17 08:40	09/21/17 20:00	1
Ethylbenzene	<1.9		1.9	0.91	ug/Kg	☼	09/20/17 08:40	09/21/17 20:00	1
2-Hexanone	<4.8		4.8	1.5	ug/Kg	☼	09/20/17 08:40	09/21/17 20:00	1
Methylene Chloride	<4.8		4.8	1.9	ug/Kg	☼	09/20/17 08:40	09/21/17 20:00	1
Methyl Ethyl Ketone	<4.8		4.8	2.1	ug/Kg	☼	09/20/17 08:40	09/21/17 20:00	1
methyl isobutyl ketone	<4.8		4.8	1.4	ug/Kg	☼	09/20/17 08:40	09/21/17 20:00	1
Methyl tert-butyl ether	<1.9		1.9	0.56	ug/Kg	☼	09/20/17 08:40	09/21/17 20:00	1
Styrene	<1.9		1.9	0.58	ug/Kg	☼	09/20/17 08:40	09/21/17 20:00	1
1,1,2,2-Tetrachloroethane	<1.9		1.9	0.61	ug/Kg	☼	09/20/17 08:40	09/21/17 20:00	1
Tetrachloroethene	<1.9		1.9	0.65	ug/Kg	☼	09/20/17 08:40	09/21/17 20:00	1
Toluene	<1.9		1.9	0.48	ug/Kg	☼	09/20/17 08:40	09/21/17 20:00	1
trans-1,2-Dichloroethene	<1.9		1.9	0.85	ug/Kg	☼	09/20/17 08:40	09/21/17 20:00	1
trans-1,3-Dichloropropene	<1.9		1.9	0.67	ug/Kg	☼	09/20/17 08:40	09/21/17 20:00	1
1,1,1-Trichloroethane	<1.9		1.9	0.64	ug/Kg	☼	09/20/17 08:40	09/21/17 20:00	1
1,1,2-Trichloroethane	<1.9		1.9	0.82	ug/Kg	☼	09/20/17 08:40	09/21/17 20:00	1
Trichloroethene	<1.9		1.9	0.65	ug/Kg	☼	09/20/17 08:40	09/21/17 20:00	1
Vinyl chloride	<1.9		1.9	0.84	ug/Kg	☼	09/20/17 08:40	09/21/17 20:00	1
Xylenes, Total	<3.8		3.8	0.61	ug/Kg	☼	09/20/17 08:40	09/21/17 20:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		75 - 131	09/20/17 08:40	09/21/17 20:00	1
Dibromofluoromethane	102		75 - 126	09/20/17 08:40	09/21/17 20:00	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	09/20/17 08:40	09/21/17 20:00	1
Toluene-d8 (Surr)	94		75 - 124	09/20/17 08:40	09/21/17 20:00	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	☼	09/25/17 08:49	09/27/17 15:26	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	09/25/17 08:49	09/27/17 15:26	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	09/25/17 08:49	09/27/17 15:26	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	09/25/17 08:49	09/27/17 15:26	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	09/25/17 08:49	09/27/17 15:26	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134252-1

Client Sample ID: FH-25(20-25)-091917

Lab Sample ID: 500-134252-3

Date Collected: 09/19/17 13:52

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 85.9

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	☼	09/25/17 08:49	09/27/17 15:26	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	09/25/17 08:49	09/27/17 15:26	1
2,4-Dichlorophenol	<380		380	91	ug/Kg	☼	09/25/17 08:49	09/27/17 15:26	1
2,4-Dimethylphenol	<380		380	150	ug/Kg	☼	09/25/17 08:49	09/27/17 15:26	1
2,4-Dinitrophenol	<770		770	680	ug/Kg	☼	09/25/17 08:49	09/27/17 15:26	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	09/25/17 08:49	09/27/17 15:26	1
2,6-Dinitrotoluene	<190		190	75	ug/Kg	☼	09/25/17 08:49	09/27/17 15:26	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	09/25/17 08:49	09/27/17 15:26	1
2-Chlorophenol	<190		190	66	ug/Kg	☼	09/25/17 08:49	09/27/17 15:26	1
2-Methylnaphthalene	<77		77	7.1	ug/Kg	☼	09/25/17 08:49	09/27/17 15:26	1
2-Methylphenol	<190		190	62	ug/Kg	☼	09/25/17 08:49	09/27/17 15:26	1
2-Nitroaniline	<190		190	52	ug/Kg	☼	09/25/17 08:49	09/27/17 15:26	1
2-Nitrophenol	<380		380	91	ug/Kg	☼	09/25/17 08:49	09/27/17 15:26	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	☼	09/25/17 08:49	09/27/17 15:26	1
3,3'-Dichlorobenzidine	<190		190	54	ug/Kg	☼	09/25/17 08:49	09/27/17 15:26	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	09/25/17 08:49	09/27/17 15:26	1
4,6-Dinitro-2-methylphenol	<770		770	310	ug/Kg	☼	09/25/17 08:49	09/27/17 15:26	1
4-Bromophenyl phenyl ether	<190		190	51	ug/Kg	☼	09/25/17 08:49	09/27/17 15:26	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	09/25/17 08:49	09/27/17 15:26	1
4-Chloroaniline	<770		770	180	ug/Kg	☼	09/25/17 08:49	09/27/17 15:26	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	09/25/17 08:49	09/27/17 15:26	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	09/25/17 08:49	09/27/17 15:26	1
4-Nitrophenol	<770		770	370	ug/Kg	☼	09/25/17 08:49	09/27/17 15:26	1
Acenaphthene	<38		38	6.9	ug/Kg	☼	09/25/17 08:49	09/27/17 15:26	1
Acenaphthylene	<38		38	5.1	ug/Kg	☼	09/25/17 08:49	09/27/17 15:26	1
Anthracene	<38		38	6.4	ug/Kg	☼	09/25/17 08:49	09/27/17 15:26	1
Benzo[a]anthracene	18 J		38	5.2	ug/Kg	☼	09/25/17 08:49	09/27/17 15:26	1
Benzo[a]pyrene	23 J		38	7.4	ug/Kg	☼	09/25/17 08:49	09/27/17 15:26	1
Benzo[b]fluoranthene	26 J		38	8.3	ug/Kg	☼	09/25/17 08:49	09/27/17 15:26	1
Benzo[g,h,i]perylene	14 J		38	12	ug/Kg	☼	09/25/17 08:49	09/27/17 15:26	1
Benzo[k]fluoranthene	13 J		38	11	ug/Kg	☼	09/25/17 08:49	09/27/17 15:26	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	09/25/17 08:49	09/27/17 15:26	1
Bis(2-chloroethyl)ether	<190		190	58	ug/Kg	☼	09/25/17 08:49	09/27/17 15:26	1
Bis(2-ethylhexyl) phthalate	<190		190	70	ug/Kg	☼	09/25/17 08:49	09/27/17 15:26	1
Butyl benzyl phthalate	<190		190	73	ug/Kg	☼	09/25/17 08:49	09/27/17 15:26	1
Carbazole	<190		190	96	ug/Kg	☼	09/25/17 08:49	09/27/17 15:26	1
Chrysene	28 J		38	10	ug/Kg	☼	09/25/17 08:49	09/27/17 15:26	1
Dibenz(a,h)anthracene	8.6 J		38	7.4	ug/Kg	☼	09/25/17 08:49	09/27/17 15:26	1
Dibenzofuran	<190		190	45	ug/Kg	☼	09/25/17 08:49	09/27/17 15:26	1
Diethyl phthalate	<190		190	65	ug/Kg	☼	09/25/17 08:49	09/27/17 15:26	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	09/25/17 08:49	09/27/17 15:26	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	09/25/17 08:49	09/27/17 15:26	1
Di-n-octyl phthalate	<190		190	63	ug/Kg	☼	09/25/17 08:49	09/27/17 15:26	1
Fluoranthene	35 J		38	7.1	ug/Kg	☼	09/25/17 08:49	09/27/17 15:26	1
Fluorene	<38		38	5.4	ug/Kg	☼	09/25/17 08:49	09/27/17 15:26	1
Hexachlorobenzene	<77		77	8.9	ug/Kg	☼	09/25/17 08:49	09/27/17 15:26	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	09/25/17 08:49	09/27/17 15:26	1
Hexachlorocyclopentadiene	<770		770	220	ug/Kg	☼	09/25/17 08:49	09/27/17 15:26	1
Hexachloroethane	<190		190	58	ug/Kg	☼	09/25/17 08:49	09/27/17 15:26	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134252-1

Client Sample ID: FH-25(20-25)-091917

Lab Sample ID: 500-134252-3

Date Collected: 09/19/17 13:52

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 85.9

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	16	J	38	10	ug/Kg	☼	09/25/17 08:49	09/27/17 15:26	1
Isophorone	<190		190	43	ug/Kg	☼	09/25/17 08:49	09/27/17 15:26	1
Naphthalene	<38		38	5.9	ug/Kg	☼	09/25/17 08:49	09/27/17 15:26	1
Nitrobenzene	<38		38	9.6	ug/Kg	☼	09/25/17 08:49	09/27/17 15:26	1
N-Nitrosodi-n-propylamine	<77		77	47	ug/Kg	☼	09/25/17 08:49	09/27/17 15:26	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	09/25/17 08:49	09/27/17 15:26	1
Pentachlorophenol	<770		770	620	ug/Kg	☼	09/25/17 08:49	09/27/17 15:26	1
Phenanthrene	37	J	38	5.4	ug/Kg	☼	09/25/17 08:49	09/27/17 15:26	1
Phenol	<190		190	85	ug/Kg	☼	09/25/17 08:49	09/27/17 15:26	1
Pyrene	37	J	38	7.6	ug/Kg	☼	09/25/17 08:49	09/27/17 15:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	69		25 - 139				09/25/17 08:49	09/27/17 15:26	1
2-Fluorobiphenyl	74		44 - 121				09/25/17 08:49	09/27/17 15:26	1
2-Fluorophenol	96		46 - 133				09/25/17 08:49	09/27/17 15:26	1
Nitrobenzene-d5	81		41 - 120				09/25/17 08:49	09/27/17 15:26	1
Phenol-d5	90		46 - 125				09/25/17 08:49	09/27/17 15:26	1
Terphenyl-d14	86		35 - 160				09/25/17 08:49	09/27/17 15:26	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		09/22/17 14:49	09/25/17 20:31	1
Barium	0.50		0.50	0.050	mg/L		09/22/17 14:49	09/25/17 20:31	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/22/17 14:49	09/25/17 20:31	1
Cadmium	0.0037	J	0.0050	0.0020	mg/L		09/22/17 14:49	09/25/17 20:31	1
Chromium	<0.025		0.025	0.010	mg/L		09/22/17 14:49	09/25/17 20:31	1
Cobalt	0.039		0.025	0.010	mg/L		09/22/17 14:49	09/25/17 20:31	1
Copper	<0.025		0.025	0.010	mg/L		09/22/17 14:49	09/25/17 20:31	1
Iron	<0.40		0.40	0.20	mg/L		09/22/17 14:49	09/25/17 20:31	1
Lead	0.010		0.0075	0.0075	mg/L		09/22/17 14:49	09/25/17 20:31	1
Manganese	11		0.025	0.010	mg/L		09/22/17 14:49	09/25/17 20:31	1
Nickel	0.034		0.025	0.010	mg/L		09/22/17 14:49	09/25/17 20:31	1
Selenium	<0.050		0.050	0.020	mg/L		09/22/17 14:49	09/25/17 20:31	1
Silver	<0.025		0.025	0.010	mg/L		09/22/17 14:49	09/25/17 20:31	1
Zinc	0.096	J	0.50	0.020	mg/L		09/22/17 14:49	09/25/17 20:31	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		09/22/17 14:51	09/25/17 17:19	1
Barium	<0.50		0.50	0.050	mg/L		09/22/17 14:51	09/25/17 17:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/22/17 14:51	09/25/17 17:19	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/22/17 14:51	09/25/17 17:19	1
Chromium	<0.025		0.025	0.010	mg/L		09/22/17 14:51	09/25/17 17:19	1
Cobalt	<0.025		0.025	0.010	mg/L		09/22/17 14:51	09/25/17 17:19	1
Copper	<0.025		0.025	0.010	mg/L		09/22/17 14:51	09/25/17 17:19	1
Iron	3.3		0.40	0.20	mg/L		09/22/17 14:51	09/25/17 17:19	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/22/17 14:51	09/25/17 17:19	1
Manganese	0.10		0.025	0.010	mg/L		09/22/17 14:51	09/25/17 17:19	1
Nickel	<0.025		0.025	0.010	mg/L		09/22/17 14:51	09/25/17 17:19	1
Selenium	<0.050		0.050	0.020	mg/L		09/22/17 14:51	09/25/17 17:19	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134252-1

Client Sample ID: FH-25(20-25)-091917

Lab Sample ID: 500-134252-3

Date Collected: 09/19/17 13:52

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 85.9

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		09/22/17 14:51	09/25/17 17:19	1
Zinc	<0.50		0.50	0.020	mg/L		09/22/17 14:51	09/25/17 17:19	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.46	J	1.1	0.22	mg/Kg	☼	09/20/17 17:00	09/21/17 12:29	1
Arsenic	11		0.57	0.20	mg/Kg	☼	09/20/17 17:00	09/21/17 12:29	1
Barium	35		0.57	0.065	mg/Kg	☼	09/20/17 17:00	09/21/17 12:29	1
Beryllium	0.49		0.23	0.053	mg/Kg	☼	09/20/17 17:00	09/21/17 12:29	1
Cadmium	0.13	B	0.11	0.021	mg/Kg	☼	09/20/17 17:00	09/21/17 12:29	1
Calcium	26000	B	11	1.9	mg/Kg	☼	09/20/17 17:00	09/21/17 12:29	1
Chromium	14		0.57	0.28	mg/Kg	☼	09/20/17 17:00	09/21/17 12:29	1
Cobalt	13		0.29	0.075	mg/Kg	☼	09/20/17 17:00	09/21/17 12:29	1
Copper	27		0.57	0.16	mg/Kg	☼	09/20/17 17:00	09/21/17 12:29	1
Iron	17000		11	5.9	mg/Kg	☼	09/20/17 17:00	09/21/17 12:29	1
Lead	23		0.29	0.13	mg/Kg	☼	09/20/17 17:00	09/21/17 12:29	1
Magnesium	18000		5.7	2.8	mg/Kg	☼	09/20/17 17:00	09/21/17 12:29	1
Manganese	410		0.57	0.083	mg/Kg	☼	09/20/17 17:00	09/21/17 12:29	1
Nickel	31		0.57	0.17	mg/Kg	☼	09/20/17 17:00	09/21/17 12:29	1
Potassium	1800		29	10	mg/Kg	☼	09/20/17 17:00	09/21/17 12:29	1
Selenium	<0.57		0.57	0.34	mg/Kg	☼	09/20/17 17:00	09/21/17 12:29	1
Silver	<0.29		0.29	0.074	mg/Kg	☼	09/20/17 17:00	09/21/17 12:29	1
Sodium	110		57	8.5	mg/Kg	☼	09/20/17 17:00	09/21/17 12:29	1
Thallium	<0.57		0.57	0.29	mg/Kg	☼	09/20/17 17:00	09/21/17 12:29	1
Vanadium	19		0.29	0.067	mg/Kg	☼	09/20/17 17:00	09/21/17 12:29	1
Zinc	72		1.1	0.50	mg/Kg	☼	09/20/17 17:00	09/21/17 12:29	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		09/22/17 11:15	09/25/17 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		09/22/17 11:15	09/25/17 10:18	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	46		18	6.1	ug/Kg	☼	09/22/17 16:20	09/25/17 13:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.1		0.20	0.20	SU			09/22/17 16:07	1

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134252-1

Client Sample ID: FH-18(0-4)-091917

Lab Sample ID: 500-134252-4

Date Collected: 09/19/17 14:07

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	69		19	8.4	ug/Kg	☼	09/20/17 08:40	09/21/17 20:25	1
Benzene	<1.9		1.9	0.49	ug/Kg	☼	09/20/17 08:40	09/21/17 20:25	1
Bromodichloromethane	<1.9		1.9	0.39	ug/Kg	☼	09/20/17 08:40	09/21/17 20:25	1
Bromoform	<1.9		1.9	0.56	ug/Kg	☼	09/20/17 08:40	09/21/17 20:25	1
Bromomethane	<4.8		4.8	1.8	ug/Kg	☼	09/20/17 08:40	09/21/17 20:25	1
Carbon disulfide	<4.8		4.8	1.0	ug/Kg	☼	09/20/17 08:40	09/21/17 20:25	1
Carbon tetrachloride	<1.9		1.9	0.56	ug/Kg	☼	09/20/17 08:40	09/21/17 20:25	1
Chlorobenzene	<1.9		1.9	0.71	ug/Kg	☼	09/20/17 08:40	09/21/17 20:25	1
Chloroethane	<4.8 *		4.8	1.4	ug/Kg	☼	09/20/17 08:40	09/21/17 20:25	1
Chloroform	<1.9		1.9	0.67	ug/Kg	☼	09/20/17 08:40	09/21/17 20:25	1
Chloromethane	<4.8		4.8	1.9	ug/Kg	☼	09/20/17 08:40	09/21/17 20:25	1
cis-1,2-Dichloroethene	<1.9		1.9	0.54	ug/Kg	☼	09/20/17 08:40	09/21/17 20:25	1
cis-1,3-Dichloropropene	<1.9		1.9	0.58	ug/Kg	☼	09/20/17 08:40	09/21/17 20:25	1
Dibromochloromethane	<1.9		1.9	0.63	ug/Kg	☼	09/20/17 08:40	09/21/17 20:25	1
1,1-Dichloroethane	<1.9		1.9	0.66	ug/Kg	☼	09/20/17 08:40	09/21/17 20:25	1
1,2-Dichloroethane	<4.8		4.8	1.5	ug/Kg	☼	09/20/17 08:40	09/21/17 20:25	1
1,1-Dichloroethene	<1.9		1.9	0.66	ug/Kg	☼	09/20/17 08:40	09/21/17 20:25	1
1,2-Dichloropropane	<1.9		1.9	0.50	ug/Kg	☼	09/20/17 08:40	09/21/17 20:25	1
1,3-Dichloropropene, Total	<1.9		1.9	0.68	ug/Kg	☼	09/20/17 08:40	09/21/17 20:25	1
Ethylbenzene	<1.9		1.9	0.92	ug/Kg	☼	09/20/17 08:40	09/21/17 20:25	1
2-Hexanone	<4.8		4.8	1.5	ug/Kg	☼	09/20/17 08:40	09/21/17 20:25	1
Methylene Chloride	<4.8		4.8	1.9	ug/Kg	☼	09/20/17 08:40	09/21/17 20:25	1
Methyl Ethyl Ketone	<4.8		4.8	2.1	ug/Kg	☼	09/20/17 08:40	09/21/17 20:25	1
methyl isobutyl ketone	<4.8		4.8	1.4	ug/Kg	☼	09/20/17 08:40	09/21/17 20:25	1
Methyl tert-butyl ether	<1.9		1.9	0.57	ug/Kg	☼	09/20/17 08:40	09/21/17 20:25	1
Styrene	<1.9		1.9	0.58	ug/Kg	☼	09/20/17 08:40	09/21/17 20:25	1
1,1,2,2-Tetrachloroethane	<1.9		1.9	0.62	ug/Kg	☼	09/20/17 08:40	09/21/17 20:25	1
Tetrachloroethene	<1.9		1.9	0.66	ug/Kg	☼	09/20/17 08:40	09/21/17 20:25	1
Toluene	<1.9		1.9	0.49	ug/Kg	☼	09/20/17 08:40	09/21/17 20:25	1
trans-1,2-Dichloroethene	<1.9		1.9	0.85	ug/Kg	☼	09/20/17 08:40	09/21/17 20:25	1
trans-1,3-Dichloropropene	<1.9		1.9	0.68	ug/Kg	☼	09/20/17 08:40	09/21/17 20:25	1
1,1,1-Trichloroethane	<1.9		1.9	0.65	ug/Kg	☼	09/20/17 08:40	09/21/17 20:25	1
1,1,2-Trichloroethane	<1.9		1.9	0.83	ug/Kg	☼	09/20/17 08:40	09/21/17 20:25	1
Trichloroethene	<1.9		1.9	0.65	ug/Kg	☼	09/20/17 08:40	09/21/17 20:25	1
Vinyl chloride	<1.9		1.9	0.85	ug/Kg	☼	09/20/17 08:40	09/21/17 20:25	1
Xylenes, Total	<3.9		3.9	0.62	ug/Kg	☼	09/20/17 08:40	09/21/17 20:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		75 - 131	09/20/17 08:40	09/21/17 20:25	1
Dibromofluoromethane	102		75 - 126	09/20/17 08:40	09/21/17 20:25	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134	09/20/17 08:40	09/21/17 20:25	1
Toluene-d8 (Surr)	93		75 - 124	09/20/17 08:40	09/21/17 20:25	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	☼	09/25/17 08:49	09/27/17 18:56	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	09/25/17 08:49	09/27/17 18:56	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	09/25/17 08:49	09/27/17 18:56	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	09/25/17 08:49	09/27/17 18:56	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	09/25/17 08:49	09/27/17 18:56	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134252-1

Client Sample ID: FH-18(0-4)-091917

Lab Sample ID: 500-134252-4

Date Collected: 09/19/17 14:07

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 85.1

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	☼	09/25/17 08:49	09/27/17 18:56	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	09/25/17 08:49	09/27/17 18:56	1
2,4-Dichlorophenol	<380		380	90	ug/Kg	☼	09/25/17 08:49	09/27/17 18:56	1
2,4-Dimethylphenol	<380		380	140	ug/Kg	☼	09/25/17 08:49	09/27/17 18:56	1
2,4-Dinitrophenol	<770		770	670	ug/Kg	☼	09/25/17 08:49	09/27/17 18:56	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	09/25/17 08:49	09/27/17 18:56	1
2,6-Dinitrotoluene	<190		190	75	ug/Kg	☼	09/25/17 08:49	09/27/17 18:56	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	09/25/17 08:49	09/27/17 18:56	1
2-Chlorophenol	<190		190	65	ug/Kg	☼	09/25/17 08:49	09/27/17 18:56	1
2-Methylnaphthalene	<77		77	7.0	ug/Kg	☼	09/25/17 08:49	09/27/17 18:56	1
2-Methylphenol	<190		190	61	ug/Kg	☼	09/25/17 08:49	09/27/17 18:56	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	09/25/17 08:49	09/27/17 18:56	1
2-Nitrophenol	<380		380	90	ug/Kg	☼	09/25/17 08:49	09/27/17 18:56	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	09/25/17 08:49	09/27/17 18:56	1
3,3'-Dichlorobenzidine	<190		190	53	ug/Kg	☼	09/25/17 08:49	09/27/17 18:56	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	09/25/17 08:49	09/27/17 18:56	1
4,6-Dinitro-2-methylphenol	<770		770	310	ug/Kg	☼	09/25/17 08:49	09/27/17 18:56	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	09/25/17 08:49	09/27/17 18:56	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	09/25/17 08:49	09/27/17 18:56	1
4-Chloroaniline	<770		770	180	ug/Kg	☼	09/25/17 08:49	09/27/17 18:56	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	09/25/17 08:49	09/27/17 18:56	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	09/25/17 08:49	09/27/17 18:56	1
4-Nitrophenol	<770		770	360	ug/Kg	☼	09/25/17 08:49	09/27/17 18:56	1
Acenaphthene	9.7 J		38	6.8	ug/Kg	☼	09/25/17 08:49	09/27/17 18:56	1
Acenaphthylene	5.8 J		38	5.0	ug/Kg	☼	09/25/17 08:49	09/27/17 18:56	1
Anthracene	38		38	6.3	ug/Kg	☼	09/25/17 08:49	09/27/17 18:56	1
Benzo[a]anthracene	120		38	5.1	ug/Kg	☼	09/25/17 08:49	09/27/17 18:56	1
Benzo[a]pyrene	130		38	7.3	ug/Kg	☼	09/25/17 08:49	09/27/17 18:56	1
Benzo[b]fluoranthene	180		38	8.2	ug/Kg	☼	09/25/17 08:49	09/27/17 18:56	1
Benzo[g,h,i]perylene	47		38	12	ug/Kg	☼	09/25/17 08:49	09/27/17 18:56	1
Benzo[k]fluoranthene	79		38	11	ug/Kg	☼	09/25/17 08:49	09/27/17 18:56	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	09/25/17 08:49	09/27/17 18:56	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	09/25/17 08:49	09/27/17 18:56	1
Bis(2-ethylhexyl) phthalate	<190		190	69	ug/Kg	☼	09/25/17 08:49	09/27/17 18:56	1
Butyl benzyl phthalate	<190		190	72	ug/Kg	☼	09/25/17 08:49	09/27/17 18:56	1
Carbazole	<190		190	95	ug/Kg	☼	09/25/17 08:49	09/27/17 18:56	1
Chrysene	140		38	10	ug/Kg	☼	09/25/17 08:49	09/27/17 18:56	1
Dibenz(a,h)anthracene	19 J		38	7.3	ug/Kg	☼	09/25/17 08:49	09/27/17 18:56	1
Dibenzofuran	<190		190	44	ug/Kg	☼	09/25/17 08:49	09/27/17 18:56	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	09/25/17 08:49	09/27/17 18:56	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	09/25/17 08:49	09/27/17 18:56	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	09/25/17 08:49	09/27/17 18:56	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	09/25/17 08:49	09/27/17 18:56	1
Fluoranthene	320		38	7.0	ug/Kg	☼	09/25/17 08:49	09/27/17 18:56	1
Fluorene	19 J		38	5.3	ug/Kg	☼	09/25/17 08:49	09/27/17 18:56	1
Hexachlorobenzene	<77		77	8.8	ug/Kg	☼	09/25/17 08:49	09/27/17 18:56	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	09/25/17 08:49	09/27/17 18:56	1
Hexachlorocyclopentadiene	<770		770	220	ug/Kg	☼	09/25/17 08:49	09/27/17 18:56	1
Hexachloroethane	<190		190	58	ug/Kg	☼	09/25/17 08:49	09/27/17 18:56	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134252-1

Client Sample ID: FH-18(0-4)-091917

Lab Sample ID: 500-134252-4

Date Collected: 09/19/17 14:07

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 85.1

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	50		38	9.8	ug/Kg	☼	09/25/17 08:49	09/27/17 18:56	1
Isophorone	<190		190	43	ug/Kg	☼	09/25/17 08:49	09/27/17 18:56	1
Naphthalene	<38		38	5.8	ug/Kg	☼	09/25/17 08:49	09/27/17 18:56	1
Nitrobenzene	<38		38	9.5	ug/Kg	☼	09/25/17 08:49	09/27/17 18:56	1
N-Nitrosodi-n-propylamine	<77		77	46	ug/Kg	☼	09/25/17 08:49	09/27/17 18:56	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	09/25/17 08:49	09/27/17 18:56	1
Pentachlorophenol	<770		770	610	ug/Kg	☼	09/25/17 08:49	09/27/17 18:56	1
Phenanthrene	230		38	5.3	ug/Kg	☼	09/25/17 08:49	09/27/17 18:56	1
Phenol	<190		190	84	ug/Kg	☼	09/25/17 08:49	09/27/17 18:56	1
Pyrene	260		38	7.5	ug/Kg	☼	09/25/17 08:49	09/27/17 18:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>2,4,6-Tribromophenol</i>	61		25 - 139				09/25/17 08:49	09/27/17 18:56	1
<i>2-Fluorobiphenyl</i>	75		44 - 121				09/25/17 08:49	09/27/17 18:56	1
<i>2-Fluorophenol</i>	96		46 - 133				09/25/17 08:49	09/27/17 18:56	1
<i>Nitrobenzene-d5</i>	72		41 - 120				09/25/17 08:49	09/27/17 18:56	1
<i>Phenol-d5</i>	83		46 - 125				09/25/17 08:49	09/27/17 18:56	1
<i>Terphenyl-d14</i>	89		35 - 160				09/25/17 08:49	09/27/17 18:56	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		09/22/17 14:49	09/25/17 20:44	1
Barium	0.30	J	0.50	0.050	mg/L		09/22/17 14:49	09/25/17 20:44	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/22/17 14:49	09/25/17 20:44	1
Cadmium	0.0028	J	0.0050	0.0020	mg/L		09/22/17 14:49	09/25/17 20:44	1
Chromium	<0.025		0.025	0.010	mg/L		09/22/17 14:49	09/25/17 20:44	1
Cobalt	0.015	J	0.025	0.010	mg/L		09/22/17 14:49	09/25/17 20:44	1
Copper	<0.025		0.025	0.010	mg/L		09/22/17 14:49	09/25/17 20:44	1
Iron	<0.40		0.40	0.20	mg/L		09/22/17 14:49	09/25/17 20:44	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/22/17 14:49	09/25/17 20:44	1
Manganese	4.7		0.025	0.010	mg/L		09/22/17 14:49	09/25/17 20:44	1
Nickel	0.028		0.025	0.010	mg/L		09/22/17 14:49	09/25/17 20:44	1
Selenium	<0.050		0.050	0.020	mg/L		09/22/17 14:49	09/25/17 20:44	1
Silver	<0.025		0.025	0.010	mg/L		09/22/17 14:49	09/25/17 20:44	1
Zinc	<0.50		0.50	0.020	mg/L		09/22/17 14:49	09/25/17 20:44	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		09/22/17 14:51	09/25/17 17:22	1
Barium	<0.50		0.50	0.050	mg/L		09/22/17 14:51	09/25/17 17:22	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/22/17 14:51	09/25/17 17:22	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/22/17 14:51	09/25/17 17:22	1
Chromium	<0.025		0.025	0.010	mg/L		09/22/17 14:51	09/25/17 17:22	1
Cobalt	<0.025		0.025	0.010	mg/L		09/22/17 14:51	09/25/17 17:22	1
Copper	0.015	J	0.025	0.010	mg/L		09/22/17 14:51	09/25/17 17:22	1
Iron	6.7		0.40	0.20	mg/L		09/22/17 14:51	09/25/17 17:22	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/22/17 14:51	09/25/17 17:22	1
Manganese	0.067		0.025	0.010	mg/L		09/22/17 14:51	09/25/17 17:22	1
Nickel	<0.025		0.025	0.010	mg/L		09/22/17 14:51	09/25/17 17:22	1
Selenium	<0.050		0.050	0.020	mg/L		09/22/17 14:51	09/25/17 17:22	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134252-1

Client Sample ID: FH-18(0-4)-091917

Lab Sample ID: 500-134252-4

Date Collected: 09/19/17 14:07

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 85.1

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		09/22/17 14:51	09/25/17 17:22	1
Zinc	<0.50		0.50	0.020	mg/L		09/22/17 14:51	09/25/17 17:22	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.55	J	1.2	0.22	mg/Kg	☼	09/20/17 17:00	09/21/17 12:33	1
Arsenic	8.2		0.58	0.20	mg/Kg	☼	09/20/17 17:00	09/21/17 12:33	1
Barium	57		0.58	0.066	mg/Kg	☼	09/20/17 17:00	09/21/17 12:33	1
Beryllium	0.77		0.23	0.054	mg/Kg	☼	09/20/17 17:00	09/21/17 12:33	1
Cadmium	0.063	J B	0.12	0.021	mg/Kg	☼	09/20/17 17:00	09/21/17 12:33	1
Calcium	25000	B	12	2.0	mg/Kg	☼	09/20/17 17:00	09/21/17 12:33	1
Chromium	18		0.58	0.29	mg/Kg	☼	09/20/17 17:00	09/21/17 12:33	1
Cobalt	14		0.29	0.076	mg/Kg	☼	09/20/17 17:00	09/21/17 12:33	1
Copper	28		0.58	0.16	mg/Kg	☼	09/20/17 17:00	09/21/17 12:33	1
Iron	21000		12	6.0	mg/Kg	☼	09/20/17 17:00	09/21/17 12:33	1
Lead	24		0.29	0.13	mg/Kg	☼	09/20/17 17:00	09/21/17 12:33	1
Magnesium	15000		5.8	2.9	mg/Kg	☼	09/20/17 17:00	09/21/17 12:33	1
Manganese	420		0.58	0.084	mg/Kg	☼	09/20/17 17:00	09/21/17 12:33	1
Nickel	34		0.58	0.17	mg/Kg	☼	09/20/17 17:00	09/21/17 12:33	1
Potassium	2100		29	10	mg/Kg	☼	09/20/17 17:00	09/21/17 12:33	1
Selenium	<0.58		0.58	0.34	mg/Kg	☼	09/20/17 17:00	09/21/17 12:33	1
Silver	<0.29		0.29	0.075	mg/Kg	☼	09/20/17 17:00	09/21/17 12:33	1
Sodium	94		58	8.6	mg/Kg	☼	09/20/17 17:00	09/21/17 12:33	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	09/20/17 17:00	09/21/17 12:33	1
Vanadium	24		0.29	0.068	mg/Kg	☼	09/20/17 17:00	09/21/17 12:33	1
Zinc	66		1.2	0.51	mg/Kg	☼	09/20/17 17:00	09/21/17 12:33	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		09/22/17 11:15	09/25/17 09:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		09/22/17 11:15	09/25/17 10:20	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	40		18	5.9	ug/Kg	☼	09/22/17 16:20	09/25/17 13:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.2		0.20	0.20	SU			09/22/17 16:11	1

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134252-1

Client Sample ID: FH-18(4-9)-091917

Lab Sample ID: 500-134252-5

Date Collected: 09/19/17 14:12

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 80.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	48		19	8.4	ug/Kg	☼	09/20/17 08:40	09/21/17 20:50	1
Benzene	<1.9		1.9	0.49	ug/Kg	☼	09/20/17 08:40	09/21/17 20:50	1
Bromodichloromethane	<1.9		1.9	0.39	ug/Kg	☼	09/20/17 08:40	09/21/17 20:50	1
Bromoform	<1.9		1.9	0.57	ug/Kg	☼	09/20/17 08:40	09/21/17 20:50	1
Bromomethane	<4.8		4.8	1.8	ug/Kg	☼	09/20/17 08:40	09/21/17 20:50	1
Carbon disulfide	<4.8		4.8	1.0	ug/Kg	☼	09/20/17 08:40	09/21/17 20:50	1
Carbon tetrachloride	<1.9		1.9	0.56	ug/Kg	☼	09/20/17 08:40	09/21/17 20:50	1
Chlorobenzene	<1.9		1.9	0.71	ug/Kg	☼	09/20/17 08:40	09/21/17 20:50	1
Chloroethane	<4.8 *		4.8	1.4	ug/Kg	☼	09/20/17 08:40	09/21/17 20:50	1
Chloroform	<1.9		1.9	0.67	ug/Kg	☼	09/20/17 08:40	09/21/17 20:50	1
Chloromethane	<4.8		4.8	1.9	ug/Kg	☼	09/20/17 08:40	09/21/17 20:50	1
cis-1,2-Dichloroethene	<1.9		1.9	0.54	ug/Kg	☼	09/20/17 08:40	09/21/17 20:50	1
cis-1,3-Dichloropropene	<1.9		1.9	0.58	ug/Kg	☼	09/20/17 08:40	09/21/17 20:50	1
Dibromochloromethane	<1.9		1.9	0.63	ug/Kg	☼	09/20/17 08:40	09/21/17 20:50	1
1,1-Dichloroethane	<1.9		1.9	0.66	ug/Kg	☼	09/20/17 08:40	09/21/17 20:50	1
1,2-Dichloroethane	<4.8		4.8	1.5	ug/Kg	☼	09/20/17 08:40	09/21/17 20:50	1
1,1-Dichloroethene	<1.9		1.9	0.67	ug/Kg	☼	09/20/17 08:40	09/21/17 20:50	1
1,2-Dichloropropane	<1.9		1.9	0.50	ug/Kg	☼	09/20/17 08:40	09/21/17 20:50	1
1,3-Dichloropropene, Total	<1.9		1.9	0.68	ug/Kg	☼	09/20/17 08:40	09/21/17 20:50	1
Ethylbenzene	<1.9		1.9	0.93	ug/Kg	☼	09/20/17 08:40	09/21/17 20:50	1
2-Hexanone	<4.8		4.8	1.5	ug/Kg	☼	09/20/17 08:40	09/21/17 20:50	1
Methylene Chloride	<4.8		4.8	1.9	ug/Kg	☼	09/20/17 08:40	09/21/17 20:50	1
Methyl Ethyl Ketone	<4.8		4.8	2.2	ug/Kg	☼	09/20/17 08:40	09/21/17 20:50	1
methyl isobutyl ketone	<4.8		4.8	1.4	ug/Kg	☼	09/20/17 08:40	09/21/17 20:50	1
Methyl tert-butyl ether	<1.9		1.9	0.57	ug/Kg	☼	09/20/17 08:40	09/21/17 20:50	1
Styrene	<1.9		1.9	0.59	ug/Kg	☼	09/20/17 08:40	09/21/17 20:50	1
1,1,2,2-Tetrachloroethane	<1.9		1.9	0.62	ug/Kg	☼	09/20/17 08:40	09/21/17 20:50	1
Tetrachloroethene	<1.9		1.9	0.66	ug/Kg	☼	09/20/17 08:40	09/21/17 20:50	1
Toluene	<1.9		1.9	0.49	ug/Kg	☼	09/20/17 08:40	09/21/17 20:50	1
trans-1,2-Dichloroethene	<1.9		1.9	0.86	ug/Kg	☼	09/20/17 08:40	09/21/17 20:50	1
trans-1,3-Dichloropropene	<1.9		1.9	0.68	ug/Kg	☼	09/20/17 08:40	09/21/17 20:50	1
1,1,1-Trichloroethane	<1.9		1.9	0.65	ug/Kg	☼	09/20/17 08:40	09/21/17 20:50	1
1,1,2-Trichloroethane	<1.9		1.9	0.83	ug/Kg	☼	09/20/17 08:40	09/21/17 20:50	1
Trichloroethene	<1.9		1.9	0.65	ug/Kg	☼	09/20/17 08:40	09/21/17 20:50	1
Vinyl chloride	<1.9		1.9	0.86	ug/Kg	☼	09/20/17 08:40	09/21/17 20:50	1
Xylenes, Total	<3.9		3.9	0.62	ug/Kg	☼	09/20/17 08:40	09/21/17 20:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		75 - 131	09/20/17 08:40	09/21/17 20:50	1
Dibromofluoromethane	106		75 - 126	09/20/17 08:40	09/21/17 20:50	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	09/20/17 08:40	09/21/17 20:50	1
Toluene-d8 (Surr)	95		75 - 124	09/20/17 08:40	09/21/17 20:50	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	☼	09/25/17 08:49	09/27/17 15:49	1
1,2-Dichlorobenzene	<200		200	48	ug/Kg	☼	09/25/17 08:49	09/27/17 15:49	1
1,3-Dichlorobenzene	<200		200	45	ug/Kg	☼	09/25/17 08:49	09/27/17 15:49	1
1,4-Dichlorobenzene	<200		200	52	ug/Kg	☼	09/25/17 08:49	09/27/17 15:49	1
2,2'-oxybis[1-chloropropane]	<200		200	47	ug/Kg	☼	09/25/17 08:49	09/27/17 15:49	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134252-1

Client Sample ID: FH-18(4-9)-091917

Lab Sample ID: 500-134252-5

Date Collected: 09/19/17 14:12

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 80.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<400		400	92	ug/Kg	☼	09/25/17 08:49	09/27/17 15:49	1
2,4,6-Trichlorophenol	<400		400	140	ug/Kg	☼	09/25/17 08:49	09/27/17 15:49	1
2,4-Dichlorophenol	<400		400	96	ug/Kg	☼	09/25/17 08:49	09/27/17 15:49	1
2,4-Dimethylphenol	<400		400	150	ug/Kg	☼	09/25/17 08:49	09/27/17 15:49	1
2,4-Dinitrophenol	<810		810	710	ug/Kg	☼	09/25/17 08:49	09/27/17 15:49	1
2,4-Dinitrotoluene	<200		200	64	ug/Kg	☼	09/25/17 08:49	09/27/17 15:49	1
2,6-Dinitrotoluene	<200		200	79	ug/Kg	☼	09/25/17 08:49	09/27/17 15:49	1
2-Chloronaphthalene	<200		200	45	ug/Kg	☼	09/25/17 08:49	09/27/17 15:49	1
2-Chlorophenol	<200		200	69	ug/Kg	☼	09/25/17 08:49	09/27/17 15:49	1
2-Methylnaphthalene	<81		81	7.4	ug/Kg	☼	09/25/17 08:49	09/27/17 15:49	1
2-Methylphenol	<200		200	65	ug/Kg	☼	09/25/17 08:49	09/27/17 15:49	1
2-Nitroaniline	<200		200	54	ug/Kg	☼	09/25/17 08:49	09/27/17 15:49	1
2-Nitrophenol	<400		400	95	ug/Kg	☼	09/25/17 08:49	09/27/17 15:49	1
3 & 4 Methylphenol	<200		200	67	ug/Kg	☼	09/25/17 08:49	09/27/17 15:49	1
3,3'-Dichlorobenzidine	<200		200	56	ug/Kg	☼	09/25/17 08:49	09/27/17 15:49	1
3-Nitroaniline	<400		400	120	ug/Kg	☼	09/25/17 08:49	09/27/17 15:49	1
4,6-Dinitro-2-methylphenol	<810		810	320	ug/Kg	☼	09/25/17 08:49	09/27/17 15:49	1
4-Bromophenyl phenyl ether	<200		200	53	ug/Kg	☼	09/25/17 08:49	09/27/17 15:49	1
4-Chloro-3-methylphenol	<400		400	140	ug/Kg	☼	09/25/17 08:49	09/27/17 15:49	1
4-Chloroaniline	<810		810	190	ug/Kg	☼	09/25/17 08:49	09/27/17 15:49	1
4-Chlorophenyl phenyl ether	<200		200	47	ug/Kg	☼	09/25/17 08:49	09/27/17 15:49	1
4-Nitroaniline	<400		400	170	ug/Kg	☼	09/25/17 08:49	09/27/17 15:49	1
4-Nitrophenol	<810		810	380	ug/Kg	☼	09/25/17 08:49	09/27/17 15:49	1
Acenaphthene	<40		40	7.2	ug/Kg	☼	09/25/17 08:49	09/27/17 15:49	1
Acenaphthylene	<40		40	5.3	ug/Kg	☼	09/25/17 08:49	09/27/17 15:49	1
Anthracene	9.6 J		40	6.7	ug/Kg	☼	09/25/17 08:49	09/27/17 15:49	1
Benzo[a]anthracene	42		40	5.4	ug/Kg	☼	09/25/17 08:49	09/27/17 15:49	1
Benzo[a]pyrene	49		40	7.8	ug/Kg	☼	09/25/17 08:49	09/27/17 15:49	1
Benzo[b]fluoranthene	71		40	8.7	ug/Kg	☼	09/25/17 08:49	09/27/17 15:49	1
Benzo[g,h,i]perylene	24 J		40	13	ug/Kg	☼	09/25/17 08:49	09/27/17 15:49	1
Benzo[k]fluoranthene	30 J		40	12	ug/Kg	☼	09/25/17 08:49	09/27/17 15:49	1
Bis(2-chloroethoxy)methane	<200		200	41	ug/Kg	☼	09/25/17 08:49	09/27/17 15:49	1
Bis(2-chloroethyl)ether	<200		200	60	ug/Kg	☼	09/25/17 08:49	09/27/17 15:49	1
Bis(2-ethylhexyl) phthalate	<200		200	74	ug/Kg	☼	09/25/17 08:49	09/27/17 15:49	1
Butyl benzyl phthalate	<200		200	77	ug/Kg	☼	09/25/17 08:49	09/27/17 15:49	1
Carbazole	<200		200	100	ug/Kg	☼	09/25/17 08:49	09/27/17 15:49	1
Chrysene	55		40	11	ug/Kg	☼	09/25/17 08:49	09/27/17 15:49	1
Dibenz(a,h)anthracene	<40		40	7.8	ug/Kg	☼	09/25/17 08:49	09/27/17 15:49	1
Dibenzofuran	<200		200	47	ug/Kg	☼	09/25/17 08:49	09/27/17 15:49	1
Diethyl phthalate	<200		200	68	ug/Kg	☼	09/25/17 08:49	09/27/17 15:49	1
Dimethyl phthalate	<200		200	53	ug/Kg	☼	09/25/17 08:49	09/27/17 15:49	1
Di-n-butyl phthalate	<200		200	61	ug/Kg	☼	09/25/17 08:49	09/27/17 15:49	1
Di-n-octyl phthalate	<200		200	66	ug/Kg	☼	09/25/17 08:49	09/27/17 15:49	1
Fluoranthene	100		40	7.5	ug/Kg	☼	09/25/17 08:49	09/27/17 15:49	1
Fluorene	<40		40	5.7	ug/Kg	☼	09/25/17 08:49	09/27/17 15:49	1
Hexachlorobenzene	<81		81	9.3	ug/Kg	☼	09/25/17 08:49	09/27/17 15:49	1
Hexachlorobutadiene	<200		200	63	ug/Kg	☼	09/25/17 08:49	09/27/17 15:49	1
Hexachlorocyclopentadiene	<810		810	230	ug/Kg	☼	09/25/17 08:49	09/27/17 15:49	1
Hexachloroethane	<200		200	61	ug/Kg	☼	09/25/17 08:49	09/27/17 15:49	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134252-1

Client Sample ID: FH-18(4-9)-091917

Lab Sample ID: 500-134252-5

Date Collected: 09/19/17 14:12

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 80.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	25	J	40	10	ug/Kg	☼	09/25/17 08:49	09/27/17 15:49	1
Isophorone	<200		200	45	ug/Kg	☼	09/25/17 08:49	09/27/17 15:49	1
Naphthalene	<40		40	6.2	ug/Kg	☼	09/25/17 08:49	09/27/17 15:49	1
Nitrobenzene	<40		40	10	ug/Kg	☼	09/25/17 08:49	09/27/17 15:49	1
N-Nitrosodi-n-propylamine	<81		81	49	ug/Kg	☼	09/25/17 08:49	09/27/17 15:49	1
N-Nitrosodiphenylamine	<200		200	48	ug/Kg	☼	09/25/17 08:49	09/27/17 15:49	1
Pentachlorophenol	<810		810	650	ug/Kg	☼	09/25/17 08:49	09/27/17 15:49	1
Phenanthrene	59		40	5.6	ug/Kg	☼	09/25/17 08:49	09/27/17 15:49	1
Phenol	<200		200	90	ug/Kg	☼	09/25/17 08:49	09/27/17 15:49	1
Pyrene	86		40	8.0	ug/Kg	☼	09/25/17 08:49	09/27/17 15:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>2,4,6-Tribromophenol</i>	64		25 - 139				09/25/17 08:49	09/27/17 15:49	1
<i>2-Fluorobiphenyl</i>	75		44 - 121				09/25/17 08:49	09/27/17 15:49	1
<i>2-Fluorophenol</i>	98		46 - 133				09/25/17 08:49	09/27/17 15:49	1
<i>Nitrobenzene-d5</i>	73		41 - 120				09/25/17 08:49	09/27/17 15:49	1
<i>Phenol-d5</i>	94		46 - 125				09/25/17 08:49	09/27/17 15:49	1
<i>Terphenyl-d14</i>	91		35 - 160				09/25/17 08:49	09/27/17 15:49	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/22/17 14:49	09/25/17 20:48	1
Barium	0.38	J	0.50	0.050	mg/L		09/22/17 14:49	09/25/17 20:48	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/22/17 14:49	09/25/17 20:48	1
Cadmium	0.0028	J	0.0050	0.0020	mg/L		09/22/17 14:49	09/25/17 20:48	1
Chromium	<0.025		0.025	0.010	mg/L		09/22/17 14:49	09/25/17 20:48	1
Cobalt	0.039		0.025	0.010	mg/L		09/22/17 14:49	09/25/17 20:48	1
Copper	0.019	J	0.025	0.010	mg/L		09/22/17 14:49	09/25/17 20:48	1
Iron	<0.40		0.40	0.20	mg/L		09/22/17 14:49	09/25/17 20:48	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/22/17 14:49	09/25/17 20:48	1
Manganese	11		0.025	0.010	mg/L		09/22/17 14:49	09/25/17 20:48	1
Nickel	0.031		0.025	0.010	mg/L		09/22/17 14:49	09/25/17 20:48	1
Selenium	<0.050		0.050	0.020	mg/L		09/22/17 14:49	09/25/17 20:48	1
Silver	<0.025		0.025	0.010	mg/L		09/22/17 14:49	09/25/17 20:48	1
Zinc	0.026	J	0.50	0.020	mg/L		09/22/17 14:49	09/25/17 20:48	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		09/22/17 14:51	09/25/17 17:26	1
Barium	<0.50		0.50	0.050	mg/L		09/22/17 14:51	09/25/17 17:26	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/22/17 14:51	09/25/17 17:26	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/22/17 14:51	09/25/17 17:26	1
Chromium	<0.025		0.025	0.010	mg/L		09/22/17 14:51	09/25/17 17:26	1
Cobalt	<0.025		0.025	0.010	mg/L		09/22/17 14:51	09/25/17 17:26	1
Copper	<0.025		0.025	0.010	mg/L		09/22/17 14:51	09/25/17 17:26	1
Iron	1.6		0.40	0.20	mg/L		09/22/17 14:51	09/25/17 17:26	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/22/17 14:51	09/25/17 17:26	1
Manganese	0.059		0.025	0.010	mg/L		09/22/17 14:51	09/25/17 17:26	1
Nickel	<0.025		0.025	0.010	mg/L		09/22/17 14:51	09/25/17 17:26	1
Selenium	<0.050		0.050	0.020	mg/L		09/22/17 14:51	09/25/17 17:26	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134252-1

Client Sample ID: FH-18(4-9)-091917

Lab Sample ID: 500-134252-5

Date Collected: 09/19/17 14:12

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 80.1

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		09/22/17 14:51	09/25/17 17:26	1
Zinc	<0.50		0.50	0.020	mg/L		09/22/17 14:51	09/25/17 17:26	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.46	J	1.2	0.23	mg/Kg	☼	09/20/17 17:00	09/21/17 12:37	1
Arsenic	8.2		0.60	0.21	mg/Kg	☼	09/20/17 17:00	09/21/17 12:37	1
Barium	63		0.60	0.068	mg/Kg	☼	09/20/17 17:00	09/21/17 12:37	1
Beryllium	0.76		0.24	0.056	mg/Kg	☼	09/20/17 17:00	09/21/17 12:37	1
Cadmium	0.060	J B	0.12	0.022	mg/Kg	☼	09/20/17 17:00	09/21/17 12:37	1
Calcium	18000	B	12	2.0	mg/Kg	☼	09/20/17 17:00	09/21/17 12:37	1
Chromium	20		0.60	0.30	mg/Kg	☼	09/20/17 17:00	09/21/17 12:37	1
Cobalt	14		0.30	0.079	mg/Kg	☼	09/20/17 17:00	09/21/17 12:37	1
Copper	28		0.60	0.17	mg/Kg	☼	09/20/17 17:00	09/21/17 12:37	1
Iron	21000		12	6.2	mg/Kg	☼	09/20/17 17:00	09/21/17 12:37	1
Lead	20		0.30	0.14	mg/Kg	☼	09/20/17 17:00	09/21/17 12:37	1
Magnesium	13000		6.0	3.0	mg/Kg	☼	09/20/17 17:00	09/21/17 12:37	1
Manganese	350		0.60	0.087	mg/Kg	☼	09/20/17 17:00	09/21/17 12:37	1
Nickel	34		0.60	0.17	mg/Kg	☼	09/20/17 17:00	09/21/17 12:37	1
Potassium	2300		30	11	mg/Kg	☼	09/20/17 17:00	09/21/17 12:37	1
Selenium	<0.60		0.60	0.35	mg/Kg	☼	09/20/17 17:00	09/21/17 12:37	1
Silver	<0.30		0.30	0.078	mg/Kg	☼	09/20/17 17:00	09/21/17 12:37	1
Sodium	84		60	8.9	mg/Kg	☼	09/20/17 17:00	09/21/17 12:37	1
Thallium	<0.60		0.60	0.30	mg/Kg	☼	09/20/17 17:00	09/21/17 12:37	1
Vanadium	25		0.30	0.071	mg/Kg	☼	09/20/17 17:00	09/21/17 12:37	1
Zinc	69		1.2	0.53	mg/Kg	☼	09/20/17 17:00	09/21/17 12:37	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		09/22/17 11:15	09/25/17 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		09/22/17 11:15	09/25/17 10:21	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	39		19	6.4	ug/Kg	☼	09/22/17 16:20	09/25/17 13:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.1		0.20	0.20	SU			09/22/17 16:16	1

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134252-1

Client Sample ID: FH-7(0-6)-091917

Lab Sample ID: 500-134252-6

Date Collected: 09/19/17 14:23

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 86.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	75		19	8.2	ug/Kg	☼	09/20/17 08:40	09/21/17 21:15	1
Benzene	<1.9		1.9	0.48	ug/Kg	☼	09/20/17 08:40	09/21/17 21:15	1
Bromodichloromethane	<1.9		1.9	0.38	ug/Kg	☼	09/20/17 08:40	09/21/17 21:15	1
Bromoform	<1.9		1.9	0.55	ug/Kg	☼	09/20/17 08:40	09/21/17 21:15	1
Bromomethane	<4.7		4.7	1.8	ug/Kg	☼	09/20/17 08:40	09/21/17 21:15	1
Carbon disulfide	<4.7		4.7	0.98	ug/Kg	☼	09/20/17 08:40	09/21/17 21:15	1
Carbon tetrachloride	<1.9		1.9	0.54	ug/Kg	☼	09/20/17 08:40	09/21/17 21:15	1
Chlorobenzene	<1.9		1.9	0.69	ug/Kg	☼	09/20/17 08:40	09/21/17 21:15	1
Chloroethane	<4.7 *		4.7	1.4	ug/Kg	☼	09/20/17 08:40	09/21/17 21:15	1
Chloroform	<1.9		1.9	0.65	ug/Kg	☼	09/20/17 08:40	09/21/17 21:15	1
Chloromethane	<4.7		4.7	1.9	ug/Kg	☼	09/20/17 08:40	09/21/17 21:15	1
cis-1,2-Dichloroethene	<1.9		1.9	0.52	ug/Kg	☼	09/20/17 08:40	09/21/17 21:15	1
cis-1,3-Dichloropropene	<1.9		1.9	0.57	ug/Kg	☼	09/20/17 08:40	09/21/17 21:15	1
Dibromochloromethane	<1.9		1.9	0.61	ug/Kg	☼	09/20/17 08:40	09/21/17 21:15	1
1,1-Dichloroethane	<1.9		1.9	0.64	ug/Kg	☼	09/20/17 08:40	09/21/17 21:15	1
1,2-Dichloroethane	<4.7		4.7	1.5	ug/Kg	☼	09/20/17 08:40	09/21/17 21:15	1
1,1-Dichloroethene	<1.9		1.9	0.65	ug/Kg	☼	09/20/17 08:40	09/21/17 21:15	1
1,2-Dichloropropane	<1.9		1.9	0.49	ug/Kg	☼	09/20/17 08:40	09/21/17 21:15	1
1,3-Dichloropropene, Total	<1.9		1.9	0.66	ug/Kg	☼	09/20/17 08:40	09/21/17 21:15	1
Ethylbenzene	<1.9		1.9	0.90	ug/Kg	☼	09/20/17 08:40	09/21/17 21:15	1
2-Hexanone	<4.7		4.7	1.5	ug/Kg	☼	09/20/17 08:40	09/21/17 21:15	1
Methylene Chloride	<4.7		4.7	1.8	ug/Kg	☼	09/20/17 08:40	09/21/17 21:15	1
Methyl Ethyl Ketone	<4.7		4.7	2.1	ug/Kg	☼	09/20/17 08:40	09/21/17 21:15	1
methyl isobutyl ketone	<4.7		4.7	1.4	ug/Kg	☼	09/20/17 08:40	09/21/17 21:15	1
Methyl tert-butyl ether	<1.9		1.9	0.55	ug/Kg	☼	09/20/17 08:40	09/21/17 21:15	1
Styrene	<1.9		1.9	0.57	ug/Kg	☼	09/20/17 08:40	09/21/17 21:15	1
1,1,2,2-Tetrachloroethane	<1.9		1.9	0.60	ug/Kg	☼	09/20/17 08:40	09/21/17 21:15	1
Tetrachloroethene	<1.9		1.9	0.64	ug/Kg	☼	09/20/17 08:40	09/21/17 21:15	1
Toluene	<1.9		1.9	0.47	ug/Kg	☼	09/20/17 08:40	09/21/17 21:15	1
trans-1,2-Dichloroethene	<1.9		1.9	0.83	ug/Kg	☼	09/20/17 08:40	09/21/17 21:15	1
trans-1,3-Dichloropropene	<1.9		1.9	0.66	ug/Kg	☼	09/20/17 08:40	09/21/17 21:15	1
1,1,1-Trichloroethane	<1.9		1.9	0.63	ug/Kg	☼	09/20/17 08:40	09/21/17 21:15	1
1,1,2-Trichloroethane	<1.9		1.9	0.80	ug/Kg	☼	09/20/17 08:40	09/21/17 21:15	1
Trichloroethene	<1.9		1.9	0.63	ug/Kg	☼	09/20/17 08:40	09/21/17 21:15	1
Vinyl chloride	<1.9		1.9	0.83	ug/Kg	☼	09/20/17 08:40	09/21/17 21:15	1
Xylenes, Total	<3.8		3.8	0.60	ug/Kg	☼	09/20/17 08:40	09/21/17 21:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		75 - 131	09/20/17 08:40	09/21/17 21:15	1
Dibromofluoromethane	105		75 - 126	09/20/17 08:40	09/21/17 21:15	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134	09/20/17 08:40	09/21/17 21:15	1
Toluene-d8 (Surr)	94		75 - 124	09/20/17 08:40	09/21/17 21:15	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	☼	09/25/17 08:49	09/27/17 16:12	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	09/25/17 08:49	09/27/17 16:12	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	09/25/17 08:49	09/27/17 16:12	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	09/25/17 08:49	09/27/17 16:12	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	09/25/17 08:49	09/27/17 16:12	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134252-1

Client Sample ID: FH-7(0-6)-091917

Lab Sample ID: 500-134252-6

Date Collected: 09/19/17 14:23

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 86.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<380		380	87	ug/Kg	☼	09/25/17 08:49	09/27/17 16:12	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	09/25/17 08:49	09/27/17 16:12	1
2,4-Dichlorophenol	<380		380	90	ug/Kg	☼	09/25/17 08:49	09/27/17 16:12	1
2,4-Dimethylphenol	<380		380	140	ug/Kg	☼	09/25/17 08:49	09/27/17 16:12	1
2,4-Dinitrophenol	<770		770	670	ug/Kg	☼	09/25/17 08:49	09/27/17 16:12	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	09/25/17 08:49	09/27/17 16:12	1
2,6-Dinitrotoluene	<190		190	75	ug/Kg	☼	09/25/17 08:49	09/27/17 16:12	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	09/25/17 08:49	09/27/17 16:12	1
2-Chlorophenol	<190		190	65	ug/Kg	☼	09/25/17 08:49	09/27/17 16:12	1
2-Methylnaphthalene	<77		77	7.0	ug/Kg	☼	09/25/17 08:49	09/27/17 16:12	1
2-Methylphenol	<190		190	61	ug/Kg	☼	09/25/17 08:49	09/27/17 16:12	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	09/25/17 08:49	09/27/17 16:12	1
2-Nitrophenol	<380		380	90	ug/Kg	☼	09/25/17 08:49	09/27/17 16:12	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	09/25/17 08:49	09/27/17 16:12	1
3,3'-Dichlorobenzidine	<190		190	53	ug/Kg	☼	09/25/17 08:49	09/27/17 16:12	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	09/25/17 08:49	09/27/17 16:12	1
4,6-Dinitro-2-methylphenol	<770		770	310	ug/Kg	☼	09/25/17 08:49	09/27/17 16:12	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	09/25/17 08:49	09/27/17 16:12	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	09/25/17 08:49	09/27/17 16:12	1
4-Chloroaniline	<770		770	180	ug/Kg	☼	09/25/17 08:49	09/27/17 16:12	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	09/25/17 08:49	09/27/17 16:12	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	09/25/17 08:49	09/27/17 16:12	1
4-Nitrophenol	<770		770	360	ug/Kg	☼	09/25/17 08:49	09/27/17 16:12	1
Acenaphthene	12 J		38	6.8	ug/Kg	☼	09/25/17 08:49	09/27/17 16:12	1
Acenaphthylene	<38		38	5.0	ug/Kg	☼	09/25/17 08:49	09/27/17 16:12	1
Anthracene	21 J		38	6.3	ug/Kg	☼	09/25/17 08:49	09/27/17 16:12	1
Benzo[a]anthracene	87		38	5.1	ug/Kg	☼	09/25/17 08:49	09/27/17 16:12	1
Benzo[a]pyrene	93		38	7.3	ug/Kg	☼	09/25/17 08:49	09/27/17 16:12	1
Benzo[b]fluoranthene	130		38	8.2	ug/Kg	☼	09/25/17 08:49	09/27/17 16:12	1
Benzo[g,h,i]perylene	42		38	12	ug/Kg	☼	09/25/17 08:49	09/27/17 16:12	1
Benzo[k]fluoranthene	54		38	11	ug/Kg	☼	09/25/17 08:49	09/27/17 16:12	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	09/25/17 08:49	09/27/17 16:12	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	09/25/17 08:49	09/27/17 16:12	1
Bis(2-ethylhexyl) phthalate	<190		190	69	ug/Kg	☼	09/25/17 08:49	09/27/17 16:12	1
Butyl benzyl phthalate	<190		190	72	ug/Kg	☼	09/25/17 08:49	09/27/17 16:12	1
Carbazole	<190		190	95	ug/Kg	☼	09/25/17 08:49	09/27/17 16:12	1
Chrysene	100		38	10	ug/Kg	☼	09/25/17 08:49	09/27/17 16:12	1
Dibenz(a,h)anthracene	16 J		38	7.3	ug/Kg	☼	09/25/17 08:49	09/27/17 16:12	1
Dibenzofuran	<190		190	44	ug/Kg	☼	09/25/17 08:49	09/27/17 16:12	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	09/25/17 08:49	09/27/17 16:12	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	09/25/17 08:49	09/27/17 16:12	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	09/25/17 08:49	09/27/17 16:12	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	09/25/17 08:49	09/27/17 16:12	1
Fluoranthene	220		38	7.0	ug/Kg	☼	09/25/17 08:49	09/27/17 16:12	1
Fluorene	12 J		38	5.3	ug/Kg	☼	09/25/17 08:49	09/27/17 16:12	1
Hexachlorobenzene	<77		77	8.8	ug/Kg	☼	09/25/17 08:49	09/27/17 16:12	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	09/25/17 08:49	09/27/17 16:12	1
Hexachlorocyclopentadiene	<770		770	220	ug/Kg	☼	09/25/17 08:49	09/27/17 16:12	1
Hexachloroethane	<190		190	58	ug/Kg	☼	09/25/17 08:49	09/27/17 16:12	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134252-1

Client Sample ID: FH-7(0-6)-091917

Lab Sample ID: 500-134252-6

Date Collected: 09/19/17 14:23

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 86.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	45		38	9.8	ug/Kg	☼	09/25/17 08:49	09/27/17 16:12	1
Isophorone	<190		190	43	ug/Kg	☼	09/25/17 08:49	09/27/17 16:12	1
Naphthalene	<38		38	5.8	ug/Kg	☼	09/25/17 08:49	09/27/17 16:12	1
Nitrobenzene	<38		38	9.5	ug/Kg	☼	09/25/17 08:49	09/27/17 16:12	1
N-Nitrosodi-n-propylamine	<77		77	46	ug/Kg	☼	09/25/17 08:49	09/27/17 16:12	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	09/25/17 08:49	09/27/17 16:12	1
Pentachlorophenol	<770		770	610	ug/Kg	☼	09/25/17 08:49	09/27/17 16:12	1
Phenanthrene	140		38	5.3	ug/Kg	☼	09/25/17 08:49	09/27/17 16:12	1
Phenol	<190		190	84	ug/Kg	☼	09/25/17 08:49	09/27/17 16:12	1
Pyrene	180		38	7.5	ug/Kg	☼	09/25/17 08:49	09/27/17 16:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	71		25 - 139				09/25/17 08:49	09/27/17 16:12	1
2-Fluorobiphenyl	77		44 - 121				09/25/17 08:49	09/27/17 16:12	1
2-Fluorophenol	98		46 - 133				09/25/17 08:49	09/27/17 16:12	1
Nitrobenzene-d5	76		41 - 120				09/25/17 08:49	09/27/17 16:12	1
Phenol-d5	90		46 - 125				09/25/17 08:49	09/27/17 16:12	1
Terphenyl-d14	90		35 - 160				09/25/17 08:49	09/27/17 16:12	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.010	J	0.050	0.010	mg/L		09/22/17 14:49	09/25/17 20:52	1
Barium	0.29	J	0.50	0.050	mg/L		09/22/17 14:49	09/25/17 20:52	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/22/17 14:49	09/25/17 20:52	1
Cadmium	0.0027	J	0.0050	0.0020	mg/L		09/22/17 14:49	09/25/17 20:52	1
Chromium	<0.025		0.025	0.010	mg/L		09/22/17 14:49	09/25/17 20:52	1
Cobalt	0.023	J	0.025	0.010	mg/L		09/22/17 14:49	09/25/17 20:52	1
Copper	<0.025		0.025	0.010	mg/L		09/22/17 14:49	09/25/17 20:52	1
Iron	<0.40		0.40	0.20	mg/L		09/22/17 14:49	09/25/17 20:52	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/22/17 14:49	09/25/17 20:52	1
Manganese	5.4		0.025	0.010	mg/L		09/22/17 14:49	09/25/17 20:52	1
Nickel	0.024	J	0.025	0.010	mg/L		09/22/17 14:49	09/25/17 20:52	1
Selenium	<0.050		0.050	0.020	mg/L		09/22/17 14:49	09/25/17 20:52	1
Silver	<0.025		0.025	0.010	mg/L		09/22/17 14:49	09/25/17 20:52	1
Zinc	<0.50		0.50	0.020	mg/L		09/22/17 14:49	09/25/17 20:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/22/17 14:51	09/25/17 17:30	1
Barium	0.084	J	0.50	0.050	mg/L		09/22/17 14:51	09/25/17 17:30	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/22/17 14:51	09/25/17 17:30	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/22/17 14:51	09/25/17 17:30	1
Chromium	0.025		0.025	0.010	mg/L		09/22/17 14:51	09/25/17 17:30	1
Cobalt	<0.025		0.025	0.010	mg/L		09/22/17 14:51	09/25/17 17:30	1
Copper	0.030		0.025	0.010	mg/L		09/22/17 14:51	09/25/17 17:30	1
Iron	25		0.40	0.20	mg/L		09/22/17 14:51	09/25/17 17:30	1
Lead	0.016		0.0075	0.0075	mg/L		09/22/17 14:51	09/25/17 17:30	1
Manganese	0.21		0.025	0.010	mg/L		09/22/17 14:51	09/25/17 17:30	1
Nickel	0.022	J	0.025	0.010	mg/L		09/22/17 14:51	09/25/17 17:30	1
Selenium	<0.050		0.050	0.020	mg/L		09/22/17 14:51	09/25/17 17:30	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134252-1

Client Sample ID: FH-7(0-6)-091917

Lab Sample ID: 500-134252-6

Date Collected: 09/19/17 14:23

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 86.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		09/22/17 14:51	09/25/17 17:30	1
Zinc	0.047	J	0.50	0.020	mg/L		09/22/17 14:51	09/25/17 17:30	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.36	J	1.1	0.21	mg/Kg	☼	09/20/17 17:00	09/21/17 12:41	1
Arsenic	9.1		0.54	0.18	mg/Kg	☼	09/20/17 17:00	09/21/17 12:41	1
Barium	58		0.54	0.062	mg/Kg	☼	09/20/17 17:00	09/21/17 12:41	1
Beryllium	0.69		0.22	0.050	mg/Kg	☼	09/20/17 17:00	09/21/17 12:41	1
Cadmium	<0.11		0.11	0.019	mg/Kg	☼	09/20/17 17:00	09/21/17 12:41	1
Calcium	13000	B	11	1.8	mg/Kg	☼	09/20/17 17:00	09/21/17 12:41	1
Chromium	17		0.54	0.27	mg/Kg	☼	09/20/17 17:00	09/21/17 12:41	1
Cobalt	12		0.27	0.071	mg/Kg	☼	09/20/17 17:00	09/21/17 12:41	1
Copper	25		0.54	0.15	mg/Kg	☼	09/20/17 17:00	09/21/17 12:41	1
Iron	21000		11	5.6	mg/Kg	☼	09/20/17 17:00	09/21/17 12:41	1
Lead	21		0.27	0.12	mg/Kg	☼	09/20/17 17:00	09/21/17 12:41	1
Magnesium	10000		5.4	2.7	mg/Kg	☼	09/20/17 17:00	09/21/17 12:41	1
Manganese	380		0.54	0.078	mg/Kg	☼	09/20/17 17:00	09/21/17 12:41	1
Nickel	31		0.54	0.16	mg/Kg	☼	09/20/17 17:00	09/21/17 12:41	1
Potassium	1800		27	9.6	mg/Kg	☼	09/20/17 17:00	09/21/17 12:41	1
Selenium	<0.54		0.54	0.32	mg/Kg	☼	09/20/17 17:00	09/21/17 12:41	1
Silver	<0.27		0.27	0.070	mg/Kg	☼	09/20/17 17:00	09/21/17 12:41	1
Sodium	89		54	8.0	mg/Kg	☼	09/20/17 17:00	09/21/17 12:41	1
Thallium	<0.54		0.54	0.27	mg/Kg	☼	09/20/17 17:00	09/21/17 12:41	1
Vanadium	24		0.27	0.064	mg/Kg	☼	09/20/17 17:00	09/21/17 12:41	1
Zinc	63		1.1	0.47	mg/Kg	☼	09/20/17 17:00	09/21/17 12:41	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		09/22/17 11:15	09/25/17 09:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		09/22/17 11:15	09/25/17 10:22	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	32		19	6.4	ug/Kg	☼	09/22/17 16:20	09/25/17 13:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.0		0.20	0.20	SU			09/22/17 16:20	1

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134252-1

Client Sample ID: FH-7(6-12)-091917

Lab Sample ID: 500-134252-7

Date Collected: 09/19/17 14:31

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 82.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	59		19	8.2	ug/Kg	☼	09/20/17 08:40	09/21/17 21:40	1
Benzene	<1.9		1.9	0.48	ug/Kg	☼	09/20/17 08:40	09/21/17 21:40	1
Bromodichloromethane	<1.9		1.9	0.38	ug/Kg	☼	09/20/17 08:40	09/21/17 21:40	1
Bromoform	<1.9		1.9	0.55	ug/Kg	☼	09/20/17 08:40	09/21/17 21:40	1
Bromomethane	<4.7		4.7	1.8	ug/Kg	☼	09/20/17 08:40	09/21/17 21:40	1
Carbon disulfide	<4.7		4.7	0.98	ug/Kg	☼	09/20/17 08:40	09/21/17 21:40	1
Carbon tetrachloride	<1.9		1.9	0.55	ug/Kg	☼	09/20/17 08:40	09/21/17 21:40	1
Chlorobenzene	<1.9		1.9	0.70	ug/Kg	☼	09/20/17 08:40	09/21/17 21:40	1
Chloroethane	<4.7 *		4.7	1.4	ug/Kg	☼	09/20/17 08:40	09/21/17 21:40	1
Chloroform	<1.9		1.9	0.66	ug/Kg	☼	09/20/17 08:40	09/21/17 21:40	1
Chloromethane	<4.7		4.7	1.9	ug/Kg	☼	09/20/17 08:40	09/21/17 21:40	1
cis-1,2-Dichloroethene	<1.9		1.9	0.53	ug/Kg	☼	09/20/17 08:40	09/21/17 21:40	1
cis-1,3-Dichloropropene	<1.9		1.9	0.57	ug/Kg	☼	09/20/17 08:40	09/21/17 21:40	1
Dibromochloromethane	<1.9		1.9	0.62	ug/Kg	☼	09/20/17 08:40	09/21/17 21:40	1
1,1-Dichloroethane	<1.9		1.9	0.65	ug/Kg	☼	09/20/17 08:40	09/21/17 21:40	1
1,2-Dichloroethane	<4.7		4.7	1.5	ug/Kg	☼	09/20/17 08:40	09/21/17 21:40	1
1,1-Dichloroethene	<1.9		1.9	0.65	ug/Kg	☼	09/20/17 08:40	09/21/17 21:40	1
1,2-Dichloropropane	<1.9		1.9	0.49	ug/Kg	☼	09/20/17 08:40	09/21/17 21:40	1
1,3-Dichloropropene, Total	<1.9		1.9	0.66	ug/Kg	☼	09/20/17 08:40	09/21/17 21:40	1
Ethylbenzene	<1.9		1.9	0.90	ug/Kg	☼	09/20/17 08:40	09/21/17 21:40	1
2-Hexanone	<4.7		4.7	1.5	ug/Kg	☼	09/20/17 08:40	09/21/17 21:40	1
Methylene Chloride	<4.7		4.7	1.9	ug/Kg	☼	09/20/17 08:40	09/21/17 21:40	1
Methyl Ethyl Ketone	<4.7		4.7	2.1	ug/Kg	☼	09/20/17 08:40	09/21/17 21:40	1
methyl isobutyl ketone	<4.7		4.7	1.4	ug/Kg	☼	09/20/17 08:40	09/21/17 21:40	1
Methyl tert-butyl ether	<1.9		1.9	0.55	ug/Kg	☼	09/20/17 08:40	09/21/17 21:40	1
Styrene	<1.9		1.9	0.57	ug/Kg	☼	09/20/17 08:40	09/21/17 21:40	1
1,1,2,2-Tetrachloroethane	<1.9		1.9	0.60	ug/Kg	☼	09/20/17 08:40	09/21/17 21:40	1
Tetrachloroethene	<1.9		1.9	0.64	ug/Kg	☼	09/20/17 08:40	09/21/17 21:40	1
Toluene	<1.9		1.9	0.48	ug/Kg	☼	09/20/17 08:40	09/21/17 21:40	1
trans-1,2-Dichloroethene	<1.9		1.9	0.84	ug/Kg	☼	09/20/17 08:40	09/21/17 21:40	1
trans-1,3-Dichloropropene	<1.9		1.9	0.66	ug/Kg	☼	09/20/17 08:40	09/21/17 21:40	1
1,1,1-Trichloroethane	<1.9		1.9	0.63	ug/Kg	☼	09/20/17 08:40	09/21/17 21:40	1
1,1,2-Trichloroethane	<1.9		1.9	0.81	ug/Kg	☼	09/20/17 08:40	09/21/17 21:40	1
Trichloroethene	<1.9		1.9	0.64	ug/Kg	☼	09/20/17 08:40	09/21/17 21:40	1
Vinyl chloride	<1.9		1.9	0.84	ug/Kg	☼	09/20/17 08:40	09/21/17 21:40	1
Xylenes, Total	<3.8		3.8	0.60	ug/Kg	☼	09/20/17 08:40	09/21/17 21:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		75 - 131	09/20/17 08:40	09/21/17 21:40	1
Dibromofluoromethane	103		75 - 126	09/20/17 08:40	09/21/17 21:40	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	09/20/17 08:40	09/21/17 21:40	1
Toluene-d8 (Surr)	97		75 - 124	09/20/17 08:40	09/21/17 21:40	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	☼	09/25/17 08:49	09/27/17 16:36	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	09/25/17 08:49	09/27/17 16:36	1
1,3-Dichlorobenzene	<190		190	44	ug/Kg	☼	09/25/17 08:49	09/27/17 16:36	1
1,4-Dichlorobenzene	<190		190	50	ug/Kg	☼	09/25/17 08:49	09/27/17 16:36	1
2,2'-oxybis[1-chloropropane]	<190		190	45	ug/Kg	☼	09/25/17 08:49	09/27/17 16:36	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134252-1

Client Sample ID: FH-7(6-12)-091917

Lab Sample ID: 500-134252-7

Date Collected: 09/19/17 14:31

Matrix: Solid

Date Received: 09/19/17 16:45

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	<380		380	88	ug/Kg	☼	09/25/17 08:49	09/27/17 16:36	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	09/25/17 08:49	09/27/17 16:36	1
2,4-Dichlorophenol	<380		380	92	ug/Kg	☼	09/25/17 08:49	09/27/17 16:36	1
2,4-Dimethylphenol	<380		380	150	ug/Kg	☼	09/25/17 08:49	09/27/17 16:36	1
2,4-Dinitrophenol	<780		780	680	ug/Kg	☼	09/25/17 08:49	09/27/17 16:36	1
2,4-Dinitrotoluene	<190		190	62	ug/Kg	☼	09/25/17 08:49	09/27/17 16:36	1
2,6-Dinitrotoluene	<190		190	76	ug/Kg	☼	09/25/17 08:49	09/27/17 16:36	1
2-Chloronaphthalene	<190		190	43	ug/Kg	☼	09/25/17 08:49	09/27/17 16:36	1
2-Chlorophenol	<190		190	66	ug/Kg	☼	09/25/17 08:49	09/27/17 16:36	1
2-Methylnaphthalene	<78		78	7.1	ug/Kg	☼	09/25/17 08:49	09/27/17 16:36	1
2-Methylphenol	<190		190	62	ug/Kg	☼	09/25/17 08:49	09/27/17 16:36	1
2-Nitroaniline	<190		190	52	ug/Kg	☼	09/25/17 08:49	09/27/17 16:36	1
2-Nitrophenol	<380		380	92	ug/Kg	☼	09/25/17 08:49	09/27/17 16:36	1
3 & 4 Methylphenol	<190		190	65	ug/Kg	☼	09/25/17 08:49	09/27/17 16:36	1
3,3'-Dichlorobenzidine	<190		190	54	ug/Kg	☼	09/25/17 08:49	09/27/17 16:36	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	09/25/17 08:49	09/27/17 16:36	1
4,6-Dinitro-2-methylphenol	<780		780	310	ug/Kg	☼	09/25/17 08:49	09/27/17 16:36	1
4-Bromophenyl phenyl ether	<190		190	51	ug/Kg	☼	09/25/17 08:49	09/27/17 16:36	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	09/25/17 08:49	09/27/17 16:36	1
4-Chloroaniline	<780		780	180	ug/Kg	☼	09/25/17 08:49	09/27/17 16:36	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	09/25/17 08:49	09/27/17 16:36	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	09/25/17 08:49	09/27/17 16:36	1
4-Nitrophenol	<780		780	370	ug/Kg	☼	09/25/17 08:49	09/27/17 16:36	1
Acenaphthene	7.4	J	38	7.0	ug/Kg	☼	09/25/17 08:49	09/27/17 16:36	1
Acenaphthylene	<38		38	5.1	ug/Kg	☼	09/25/17 08:49	09/27/17 16:36	1
Anthracene	27	J	38	6.5	ug/Kg	☼	09/25/17 08:49	09/27/17 16:36	1
Benzo[a]anthracene	110		38	5.2	ug/Kg	☼	09/25/17 08:49	09/27/17 16:36	1
Benzo[a]pyrene	110		38	7.5	ug/Kg	☼	09/25/17 08:49	09/27/17 16:36	1
Benzo[b]fluoranthene	150		38	8.4	ug/Kg	☼	09/25/17 08:49	09/27/17 16:36	1
Benzo[g,h,i]perylene	47		38	12	ug/Kg	☼	09/25/17 08:49	09/27/17 16:36	1
Benzo[k]fluoranthene	75		38	11	ug/Kg	☼	09/25/17 08:49	09/27/17 16:36	1
Bis(2-chloroethoxy)methane	<190		190	40	ug/Kg	☼	09/25/17 08:49	09/27/17 16:36	1
Bis(2-chloroethyl)ether	<190		190	58	ug/Kg	☼	09/25/17 08:49	09/27/17 16:36	1
Bis(2-ethylhexyl) phthalate	<190		190	71	ug/Kg	☼	09/25/17 08:49	09/27/17 16:36	1
Butyl benzyl phthalate	<190		190	74	ug/Kg	☼	09/25/17 08:49	09/27/17 16:36	1
Carbazole	<190		190	97	ug/Kg	☼	09/25/17 08:49	09/27/17 16:36	1
Chrysene	130		38	11	ug/Kg	☼	09/25/17 08:49	09/27/17 16:36	1
Dibenz(a,h)anthracene	18	J	38	7.5	ug/Kg	☼	09/25/17 08:49	09/27/17 16:36	1
Dibenzofuran	<190		190	45	ug/Kg	☼	09/25/17 08:49	09/27/17 16:36	1
Diethyl phthalate	<190		190	66	ug/Kg	☼	09/25/17 08:49	09/27/17 16:36	1
Dimethyl phthalate	<190		190	51	ug/Kg	☼	09/25/17 08:49	09/27/17 16:36	1
Di-n-butyl phthalate	<190		190	59	ug/Kg	☼	09/25/17 08:49	09/27/17 16:36	1
Di-n-octyl phthalate	<190		190	63	ug/Kg	☼	09/25/17 08:49	09/27/17 16:36	1
Fluoranthene	280		38	7.2	ug/Kg	☼	09/25/17 08:49	09/27/17 16:36	1
Fluorene	18	J	38	5.4	ug/Kg	☼	09/25/17 08:49	09/27/17 16:36	1
Hexachlorobenzene	<78		78	9.0	ug/Kg	☼	09/25/17 08:49	09/27/17 16:36	1
Hexachlorobutadiene	<190		190	61	ug/Kg	☼	09/25/17 08:49	09/27/17 16:36	1
Hexachlorocyclopentadiene	<780		780	220	ug/Kg	☼	09/25/17 08:49	09/27/17 16:36	1
Hexachloroethane	<190		190	59	ug/Kg	☼	09/25/17 08:49	09/27/17 16:36	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134252-1

Client Sample ID: FH-7(6-12)-091917

Lab Sample ID: 500-134252-7

Date Collected: 09/19/17 14:31

Matrix: Solid

Date Received: 09/19/17 16:45

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	49		38	10	ug/Kg	☼	09/25/17 08:49	09/27/17 16:36	1
Isophorone	<190		190	44	ug/Kg	☼	09/25/17 08:49	09/27/17 16:36	1
Naphthalene	<38		38	6.0	ug/Kg	☼	09/25/17 08:49	09/27/17 16:36	1
Nitrobenzene	<38		38	9.7	ug/Kg	☼	09/25/17 08:49	09/27/17 16:36	1
N-Nitrosodi-n-propylamine	<78		78	47	ug/Kg	☼	09/25/17 08:49	09/27/17 16:36	1
N-Nitrosodiphenylamine	<190		190	46	ug/Kg	☼	09/25/17 08:49	09/27/17 16:36	1
Pentachlorophenol	<780		780	620	ug/Kg	☼	09/25/17 08:49	09/27/17 16:36	1
Phenanthrene	190		38	5.4	ug/Kg	☼	09/25/17 08:49	09/27/17 16:36	1
Phenol	<190		190	86	ug/Kg	☼	09/25/17 08:49	09/27/17 16:36	1
Pyrene	220		38	7.7	ug/Kg	☼	09/25/17 08:49	09/27/17 16:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	65		25 - 139				09/25/17 08:49	09/27/17 16:36	1
2-Fluorobiphenyl	65		44 - 121				09/25/17 08:49	09/27/17 16:36	1
2-Fluorophenol	83		46 - 133				09/25/17 08:49	09/27/17 16:36	1
Nitrobenzene-d5	61		41 - 120				09/25/17 08:49	09/27/17 16:36	1
Phenol-d5	81		46 - 125				09/25/17 08:49	09/27/17 16:36	1
Terphenyl-d14	88		35 - 160				09/25/17 08:49	09/27/17 16:36	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		09/22/17 14:49	09/25/17 20:56	1
Barium	0.42	J	0.50	0.050	mg/L		09/22/17 14:49	09/25/17 20:56	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/22/17 14:49	09/25/17 20:56	1
Cadmium	0.0034	J	0.0050	0.0020	mg/L		09/22/17 14:49	09/25/17 20:56	1
Chromium	<0.025		0.025	0.010	mg/L		09/22/17 14:49	09/25/17 20:56	1
Cobalt	0.040		0.025	0.010	mg/L		09/22/17 14:49	09/25/17 20:56	1
Copper	0.025		0.025	0.010	mg/L		09/22/17 14:49	09/25/17 20:56	1
Iron	<0.40		0.40	0.20	mg/L		09/22/17 14:49	09/25/17 20:56	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/22/17 14:49	09/25/17 20:56	1
Manganese	9.7		0.025	0.010	mg/L		09/22/17 14:49	09/25/17 20:56	1
Nickel	0.030		0.025	0.010	mg/L		09/22/17 14:49	09/25/17 20:56	1
Selenium	<0.050		0.050	0.020	mg/L		09/22/17 14:49	09/25/17 20:56	1
Silver	<0.025		0.025	0.010	mg/L		09/22/17 14:49	09/25/17 20:56	1
Zinc	0.044	J	0.50	0.020	mg/L		09/22/17 14:49	09/25/17 20:56	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		09/22/17 14:51	09/25/17 17:47	1
Barium	0.15	J	0.50	0.050	mg/L		09/22/17 14:51	09/25/17 17:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/22/17 14:51	09/25/17 17:47	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/22/17 14:51	09/25/17 17:47	1
Chromium	0.011	J	0.025	0.010	mg/L		09/22/17 14:51	09/25/17 17:47	1
Cobalt	<0.025		0.025	0.010	mg/L		09/22/17 14:51	09/25/17 17:47	1
Copper	0.027		0.025	0.010	mg/L		09/22/17 14:51	09/25/17 17:47	1
Iron	5.0		0.40	0.20	mg/L		09/22/17 14:51	09/25/17 17:47	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/22/17 14:51	09/25/17 17:47	1
Manganese	0.10		0.025	0.010	mg/L		09/22/17 14:51	09/25/17 17:47	1
Nickel	<0.025		0.025	0.010	mg/L		09/22/17 14:51	09/25/17 17:47	1
Selenium	<0.050		0.050	0.020	mg/L		09/22/17 14:51	09/25/17 17:47	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134252-1

Client Sample ID: FH-7(6-12)-091917

Lab Sample ID: 500-134252-7

Date Collected: 09/19/17 14:31

Matrix: Solid

Date Received: 09/19/17 16:45

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		09/22/17 14:51	09/25/17 17:47	1
Zinc	0.10	J	0.50	0.020	mg/L		09/22/17 14:51	09/25/17 17:47	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.38	J	1.1	0.22	mg/Kg	☼	09/20/17 17:00	09/21/17 12:46	1
Arsenic	9.0		0.55	0.19	mg/Kg	☼	09/20/17 17:00	09/21/17 12:46	1
Barium	52		0.55	0.063	mg/Kg	☼	09/20/17 17:00	09/21/17 12:46	1
Beryllium	0.70		0.22	0.052	mg/Kg	☼	09/20/17 17:00	09/21/17 12:46	1
Cadmium	0.055	J B	0.11	0.020	mg/Kg	☼	09/20/17 17:00	09/21/17 12:46	1
Calcium	26000	B	11	1.9	mg/Kg	☼	09/20/17 17:00	09/21/17 12:46	1
Chromium	17		0.55	0.27	mg/Kg	☼	09/20/17 17:00	09/21/17 12:46	1
Cobalt	14		0.28	0.072	mg/Kg	☼	09/20/17 17:00	09/21/17 12:46	1
Copper	27		0.55	0.15	mg/Kg	☼	09/20/17 17:00	09/21/17 12:46	1
Iron	20000		11	5.7	mg/Kg	☼	09/20/17 17:00	09/21/17 12:46	1
Lead	20		0.28	0.13	mg/Kg	☼	09/20/17 17:00	09/21/17 12:46	1
Magnesium	16000		5.5	2.7	mg/Kg	☼	09/20/17 17:00	09/21/17 12:46	1
Manganese	350		0.55	0.080	mg/Kg	☼	09/20/17 17:00	09/21/17 12:46	1
Nickel	34		0.55	0.16	mg/Kg	☼	09/20/17 17:00	09/21/17 12:46	1
Potassium	2200		28	9.8	mg/Kg	☼	09/20/17 17:00	09/21/17 12:46	1
Selenium	<0.55		0.55	0.33	mg/Kg	☼	09/20/17 17:00	09/21/17 12:46	1
Silver	<0.28		0.28	0.071	mg/Kg	☼	09/20/17 17:00	09/21/17 12:46	1
Sodium	94		55	8.2	mg/Kg	☼	09/20/17 17:00	09/21/17 12:46	1
Thallium	<0.55		0.55	0.28	mg/Kg	☼	09/20/17 17:00	09/21/17 12:46	1
Vanadium	23		0.28	0.065	mg/Kg	☼	09/20/17 17:00	09/21/17 12:46	1
Zinc	65		1.1	0.49	mg/Kg	☼	09/20/17 17:00	09/21/17 12:46	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		09/22/17 11:15	09/25/17 09:53	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		09/22/17 11:15	09/25/17 10:24	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	37		20	6.7	ug/Kg	☼	09/22/17 16:20	09/25/17 13:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.0		0.20	0.20	SU			09/22/17 16:25	1

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134252-1

Client Sample ID: FH-7(12-18)-091917

Lab Sample ID: 500-134252-8

Date Collected: 09/19/17 14:39

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	54		17	7.5	ug/Kg	☼	09/20/17 08:40	09/21/17 22:05	1
Benzene	<1.7		1.7	0.44	ug/Kg	☼	09/20/17 08:40	09/21/17 22:05	1
Bromodichloromethane	<1.7		1.7	0.35	ug/Kg	☼	09/20/17 08:40	09/21/17 22:05	1
Bromoform	<1.7		1.7	0.51	ug/Kg	☼	09/20/17 08:40	09/21/17 22:05	1
Bromomethane	<4.3		4.3	1.6	ug/Kg	☼	09/20/17 08:40	09/21/17 22:05	1
Carbon disulfide	<4.3		4.3	0.90	ug/Kg	☼	09/20/17 08:40	09/21/17 22:05	1
Carbon tetrachloride	<1.7		1.7	0.50	ug/Kg	☼	09/20/17 08:40	09/21/17 22:05	1
Chlorobenzene	<1.7		1.7	0.64	ug/Kg	☼	09/20/17 08:40	09/21/17 22:05	1
Chloroethane	<4.3 *		4.3	1.3	ug/Kg	☼	09/20/17 08:40	09/21/17 22:05	1
Chloroform	<1.7		1.7	0.60	ug/Kg	☼	09/20/17 08:40	09/21/17 22:05	1
Chloromethane	<4.3		4.3	1.7	ug/Kg	☼	09/20/17 08:40	09/21/17 22:05	1
cis-1,2-Dichloroethene	<1.7		1.7	0.48	ug/Kg	☼	09/20/17 08:40	09/21/17 22:05	1
cis-1,3-Dichloropropene	<1.7		1.7	0.52	ug/Kg	☼	09/20/17 08:40	09/21/17 22:05	1
Dibromochloromethane	<1.7		1.7	0.57	ug/Kg	☼	09/20/17 08:40	09/21/17 22:05	1
1,1-Dichloroethane	<1.7		1.7	0.59	ug/Kg	☼	09/20/17 08:40	09/21/17 22:05	1
1,2-Dichloroethane	<4.3		4.3	1.4	ug/Kg	☼	09/20/17 08:40	09/21/17 22:05	1
1,1-Dichloroethene	<1.7		1.7	0.60	ug/Kg	☼	09/20/17 08:40	09/21/17 22:05	1
1,2-Dichloropropane	<1.7		1.7	0.45	ug/Kg	☼	09/20/17 08:40	09/21/17 22:05	1
1,3-Dichloropropene, Total	<1.7		1.7	0.61	ug/Kg	☼	09/20/17 08:40	09/21/17 22:05	1
Ethylbenzene	<1.7		1.7	0.83	ug/Kg	☼	09/20/17 08:40	09/21/17 22:05	1
2-Hexanone	<4.3		4.3	1.4	ug/Kg	☼	09/20/17 08:40	09/21/17 22:05	1
Methylene Chloride	<4.3		4.3	1.7	ug/Kg	☼	09/20/17 08:40	09/21/17 22:05	1
Methyl Ethyl Ketone	<4.3		4.3	1.9	ug/Kg	☼	09/20/17 08:40	09/21/17 22:05	1
methyl isobutyl ketone	<4.3		4.3	1.3	ug/Kg	☼	09/20/17 08:40	09/21/17 22:05	1
Methyl tert-butyl ether	<1.7		1.7	0.51	ug/Kg	☼	09/20/17 08:40	09/21/17 22:05	1
Styrene	<1.7		1.7	0.52	ug/Kg	☼	09/20/17 08:40	09/21/17 22:05	1
1,1,2,2-Tetrachloroethane	<1.7		1.7	0.55	ug/Kg	☼	09/20/17 08:40	09/21/17 22:05	1
Tetrachloroethene	<1.7		1.7	0.59	ug/Kg	☼	09/20/17 08:40	09/21/17 22:05	1
Toluene	<1.7		1.7	0.44	ug/Kg	☼	09/20/17 08:40	09/21/17 22:05	1
trans-1,2-Dichloroethene	<1.7		1.7	0.77	ug/Kg	☼	09/20/17 08:40	09/21/17 22:05	1
trans-1,3-Dichloropropene	<1.7		1.7	0.61	ug/Kg	☼	09/20/17 08:40	09/21/17 22:05	1
1,1,1-Trichloroethane	<1.7		1.7	0.58	ug/Kg	☼	09/20/17 08:40	09/21/17 22:05	1
1,1,2-Trichloroethane	<1.7		1.7	0.74	ug/Kg	☼	09/20/17 08:40	09/21/17 22:05	1
Trichloroethene	<1.7		1.7	0.59	ug/Kg	☼	09/20/17 08:40	09/21/17 22:05	1
Vinyl chloride	<1.7		1.7	0.77	ug/Kg	☼	09/20/17 08:40	09/21/17 22:05	1
Xylenes, Total	<3.5		3.5	0.55	ug/Kg	☼	09/20/17 08:40	09/21/17 22:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		75 - 131	09/20/17 08:40	09/21/17 22:05	1
Dibromofluoromethane	105		75 - 126	09/20/17 08:40	09/21/17 22:05	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	09/20/17 08:40	09/21/17 22:05	1
Toluene-d8 (Surr)	95		75 - 124	09/20/17 08:40	09/21/17 22:05	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	40	ug/Kg	☼	09/25/17 08:49	09/27/17 16:59	1
1,2-Dichlorobenzene	<190		190	44	ug/Kg	☼	09/25/17 08:49	09/27/17 16:59	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	09/25/17 08:49	09/27/17 16:59	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	09/25/17 08:49	09/27/17 16:59	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	09/25/17 08:49	09/27/17 16:59	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134252-1

Client Sample ID: FH-7(12-18)-091917

Lab Sample ID: 500-134252-8

Date Collected: 09/19/17 14:39

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	85	ug/Kg	☼	09/25/17 08:49	09/27/17 16:59	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	09/25/17 08:49	09/27/17 16:59	1
2,4-Dichlorophenol	<370		370	88	ug/Kg	☼	09/25/17 08:49	09/27/17 16:59	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	09/25/17 08:49	09/27/17 16:59	1
2,4-Dinitrophenol	<750		750	660	ug/Kg	☼	09/25/17 08:49	09/27/17 16:59	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	09/25/17 08:49	09/27/17 16:59	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	09/25/17 08:49	09/27/17 16:59	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	09/25/17 08:49	09/27/17 16:59	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	09/25/17 08:49	09/27/17 16:59	1
2-Methylnaphthalene	<75		75	6.8	ug/Kg	☼	09/25/17 08:49	09/27/17 16:59	1
2-Methylphenol	<190		190	60	ug/Kg	☼	09/25/17 08:49	09/27/17 16:59	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	09/25/17 08:49	09/27/17 16:59	1
2-Nitrophenol	<370		370	88	ug/Kg	☼	09/25/17 08:49	09/27/17 16:59	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	09/25/17 08:49	09/27/17 16:59	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	09/25/17 08:49	09/27/17 16:59	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	09/25/17 08:49	09/27/17 16:59	1
4,6-Dinitro-2-methylphenol	<750		750	300	ug/Kg	☼	09/25/17 08:49	09/27/17 16:59	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	09/25/17 08:49	09/27/17 16:59	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	09/25/17 08:49	09/27/17 16:59	1
4-Chloroaniline	<750		750	170	ug/Kg	☼	09/25/17 08:49	09/27/17 16:59	1
4-Chlorophenyl phenyl ether	<190		190	43	ug/Kg	☼	09/25/17 08:49	09/27/17 16:59	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	09/25/17 08:49	09/27/17 16:59	1
4-Nitrophenol	<750		750	350	ug/Kg	☼	09/25/17 08:49	09/27/17 16:59	1
Acenaphthene	<37		37	6.7	ug/Kg	☼	09/25/17 08:49	09/27/17 16:59	1
Acenaphthylene	<37		37	4.9	ug/Kg	☼	09/25/17 08:49	09/27/17 16:59	1
Anthracene	<37		37	6.2	ug/Kg	☼	09/25/17 08:49	09/27/17 16:59	1
Benzo[a]anthracene	27 J		37	5.0	ug/Kg	☼	09/25/17 08:49	09/27/17 16:59	1
Benzo[a]pyrene	28 J		37	7.2	ug/Kg	☼	09/25/17 08:49	09/27/17 16:59	1
Benzo[b]fluoranthene	41		37	8.0	ug/Kg	☼	09/25/17 08:49	09/27/17 16:59	1
Benzo[g,h,i]perylene	15 J		37	12	ug/Kg	☼	09/25/17 08:49	09/27/17 16:59	1
Benzo[k]fluoranthene	17 J		37	11	ug/Kg	☼	09/25/17 08:49	09/27/17 16:59	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	09/25/17 08:49	09/27/17 16:59	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	09/25/17 08:49	09/27/17 16:59	1
Bis(2-ethylhexyl) phthalate	<190		190	68	ug/Kg	☼	09/25/17 08:49	09/27/17 16:59	1
Butyl benzyl phthalate	<190		190	71	ug/Kg	☼	09/25/17 08:49	09/27/17 16:59	1
Carbazole	<190		190	93	ug/Kg	☼	09/25/17 08:49	09/27/17 16:59	1
Chrysene	34 J		37	10	ug/Kg	☼	09/25/17 08:49	09/27/17 16:59	1
Dibenz(a,h)anthracene	<37		37	7.2	ug/Kg	☼	09/25/17 08:49	09/27/17 16:59	1
Dibenzofuran	<190		190	44	ug/Kg	☼	09/25/17 08:49	09/27/17 16:59	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	09/25/17 08:49	09/27/17 16:59	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	09/25/17 08:49	09/27/17 16:59	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	09/25/17 08:49	09/27/17 16:59	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	09/25/17 08:49	09/27/17 16:59	1
Fluoranthene	59		37	6.9	ug/Kg	☼	09/25/17 08:49	09/27/17 16:59	1
Fluorene	<37		37	5.2	ug/Kg	☼	09/25/17 08:49	09/27/17 16:59	1
Hexachlorobenzene	<75		75	8.6	ug/Kg	☼	09/25/17 08:49	09/27/17 16:59	1
Hexachlorobutadiene	<190		190	58	ug/Kg	☼	09/25/17 08:49	09/27/17 16:59	1
Hexachlorocyclopentadiene	<750		750	210	ug/Kg	☼	09/25/17 08:49	09/27/17 16:59	1
Hexachloroethane	<190		190	57	ug/Kg	☼	09/25/17 08:49	09/27/17 16:59	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134252-1

Client Sample ID: FH-7(12-18)-091917

Lab Sample ID: 500-134252-8

Date Collected: 09/19/17 14:39

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	17	J	37	9.6	ug/Kg	☼	09/25/17 08:49	09/27/17 16:59	1
Isophorone	<190		190	42	ug/Kg	☼	09/25/17 08:49	09/27/17 16:59	1
Naphthalene	<37		37	5.7	ug/Kg	☼	09/25/17 08:49	09/27/17 16:59	1
Nitrobenzene	<37		37	9.3	ug/Kg	☼	09/25/17 08:49	09/27/17 16:59	1
N-Nitrosodi-n-propylamine	<75		75	45	ug/Kg	☼	09/25/17 08:49	09/27/17 16:59	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	09/25/17 08:49	09/27/17 16:59	1
Pentachlorophenol	<750		750	600	ug/Kg	☼	09/25/17 08:49	09/27/17 16:59	1
Phenanthrene	27	J	37	5.2	ug/Kg	☼	09/25/17 08:49	09/27/17 16:59	1
Phenol	<190		190	83	ug/Kg	☼	09/25/17 08:49	09/27/17 16:59	1
Pyrene	52		37	7.4	ug/Kg	☼	09/25/17 08:49	09/27/17 16:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	69		25 - 139				09/25/17 08:49	09/27/17 16:59	1
2-Fluorobiphenyl	72		44 - 121				09/25/17 08:49	09/27/17 16:59	1
2-Fluorophenol	93		46 - 133				09/25/17 08:49	09/27/17 16:59	1
Nitrobenzene-d5	72		41 - 120				09/25/17 08:49	09/27/17 16:59	1
Phenol-d5	87		46 - 125				09/25/17 08:49	09/27/17 16:59	1
Terphenyl-d14	89		35 - 160				09/25/17 08:49	09/27/17 16:59	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		09/22/17 14:49	09/25/17 21:00	1
Barium	0.42	J	0.50	0.050	mg/L		09/22/17 14:49	09/25/17 21:00	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/22/17 14:49	09/25/17 21:00	1
Cadmium	0.0034	J	0.0050	0.0020	mg/L		09/22/17 14:49	09/25/17 21:00	1
Chromium	<0.025		0.025	0.010	mg/L		09/22/17 14:49	09/25/17 21:00	1
Cobalt	0.026		0.025	0.010	mg/L		09/22/17 14:49	09/25/17 21:00	1
Copper	<0.025		0.025	0.010	mg/L		09/22/17 14:49	09/25/17 21:00	1
Iron	<0.40		0.40	0.20	mg/L		09/22/17 14:49	09/25/17 21:00	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/22/17 14:49	09/25/17 21:00	1
Manganese	11		0.025	0.010	mg/L		09/22/17 14:49	09/25/17 21:00	1
Nickel	0.024	J	0.025	0.010	mg/L		09/22/17 14:49	09/25/17 21:00	1
Selenium	<0.050		0.050	0.020	mg/L		09/22/17 14:49	09/25/17 21:00	1
Silver	<0.025		0.025	0.010	mg/L		09/22/17 14:49	09/25/17 21:00	1
Zinc	0.021	J	0.50	0.020	mg/L		09/22/17 14:49	09/25/17 21:00	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		09/22/17 14:51	09/25/17 17:51	1
Barium	0.20	J	0.50	0.050	mg/L		09/22/17 14:51	09/25/17 17:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/22/17 14:51	09/25/17 17:51	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/22/17 14:51	09/25/17 17:51	1
Chromium	0.022	J	0.025	0.010	mg/L		09/22/17 14:51	09/25/17 17:51	1
Cobalt	<0.025		0.025	0.010	mg/L		09/22/17 14:51	09/25/17 17:51	1
Copper	0.038		0.025	0.010	mg/L		09/22/17 14:51	09/25/17 17:51	1
Iron	14		0.40	0.20	mg/L		09/22/17 14:51	09/25/17 17:51	1
Lead	0.014		0.0075	0.0075	mg/L		09/22/17 14:51	09/25/17 17:51	1
Manganese	0.23		0.025	0.010	mg/L		09/22/17 14:51	09/25/17 17:51	1
Nickel	0.019	J	0.025	0.010	mg/L		09/22/17 14:51	09/25/17 17:51	1
Selenium	<0.050		0.050	0.020	mg/L		09/22/17 14:51	09/25/17 17:51	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134252-1

Client Sample ID: FH-7(12-18)-091917

Lab Sample ID: 500-134252-8

Date Collected: 09/19/17 14:39

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		09/22/17 14:51	09/25/17 17:51	1
Zinc	0.15	J	0.50	0.020	mg/L		09/22/17 14:51	09/25/17 17:51	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.61	J	1.2	0.23	mg/Kg	☼	09/20/17 17:00	09/21/17 12:50	1
Arsenic	10		0.58	0.20	mg/Kg	☼	09/20/17 17:00	09/21/17 12:50	1
Barium	51		0.58	0.066	mg/Kg	☼	09/20/17 17:00	09/21/17 12:50	1
Beryllium	0.62		0.23	0.054	mg/Kg	☼	09/20/17 17:00	09/21/17 12:50	1
Cadmium	0.047	J B	0.12	0.021	mg/Kg	☼	09/20/17 17:00	09/21/17 12:50	1
Calcium	27000	B	12	2.0	mg/Kg	☼	09/20/17 17:00	09/21/17 12:50	1
Chromium	17		0.58	0.29	mg/Kg	☼	09/20/17 17:00	09/21/17 12:50	1
Cobalt	14		0.29	0.076	mg/Kg	☼	09/20/17 17:00	09/21/17 12:50	1
Copper	30		0.58	0.16	mg/Kg	☼	09/20/17 17:00	09/21/17 12:50	1
Iron	21000		12	6.0	mg/Kg	☼	09/20/17 17:00	09/21/17 12:50	1
Lead	22		0.29	0.13	mg/Kg	☼	09/20/17 17:00	09/21/17 12:50	1
Magnesium	17000		5.8	2.9	mg/Kg	☼	09/20/17 17:00	09/21/17 12:50	1
Manganese	520		0.58	0.084	mg/Kg	☼	09/20/17 17:00	09/21/17 12:50	1
Nickel	35		0.58	0.17	mg/Kg	☼	09/20/17 17:00	09/21/17 12:50	1
Potassium	2000		29	10	mg/Kg	☼	09/20/17 17:00	09/21/17 12:50	1
Selenium	<0.58		0.58	0.34	mg/Kg	☼	09/20/17 17:00	09/21/17 12:50	1
Silver	<0.29		0.29	0.075	mg/Kg	☼	09/20/17 17:00	09/21/17 12:50	1
Sodium	95		58	8.6	mg/Kg	☼	09/20/17 17:00	09/21/17 12:50	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	09/20/17 17:00	09/21/17 12:50	1
Vanadium	22		0.29	0.068	mg/Kg	☼	09/20/17 17:00	09/21/17 12:50	1
Zinc	70		1.2	0.51	mg/Kg	☼	09/20/17 17:00	09/21/17 12:50	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		09/22/17 11:15	09/25/17 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		09/22/17 11:15	09/25/17 10:25	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	34		19	6.4	ug/Kg	☼	09/22/17 16:20	09/25/17 13:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.1		0.20	0.20	SU			09/22/17 16:29	1

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134252-1

Client Sample ID: FH-6(0-6)-091917

Lab Sample ID: 500-134252-9

Date Collected: 09/19/17 15:03

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 85.1

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	☼	09/20/17 08:40	09/21/17 20:09	1
Benzene	<1.6		1.6	0.40	ug/Kg	☼	09/20/17 08:40	09/21/17 20:09	1
Bromodichloromethane	<1.6		1.6	0.32	ug/Kg	☼	09/20/17 08:40	09/21/17 20:09	1
Bromoform	<1.6		1.6	0.46	ug/Kg	☼	09/20/17 08:40	09/21/17 20:09	1
Bromomethane	<4.0		4.0	1.5	ug/Kg	☼	09/20/17 08:40	09/21/17 20:09	1
Carbon disulfide	<4.0		4.0	0.82	ug/Kg	☼	09/20/17 08:40	09/21/17 20:09	1
Carbon tetrachloride	<1.6		1.6	0.46	ug/Kg	☼	09/20/17 08:40	09/21/17 20:09	1
Chlorobenzene	<1.6		1.6	0.58	ug/Kg	☼	09/20/17 08:40	09/21/17 20:09	1
Chloroethane	<4.0 *		4.0	1.2	ug/Kg	☼	09/20/17 08:40	09/21/17 20:09	1
Chloroform	<1.6		1.6	0.55	ug/Kg	☼	09/20/17 08:40	09/21/17 20:09	1
Chloromethane	<4.0		4.0	1.6	ug/Kg	☼	09/20/17 08:40	09/21/17 20:09	1
cis-1,2-Dichloroethene	<1.6		1.6	0.44	ug/Kg	☼	09/20/17 08:40	09/21/17 20:09	1
cis-1,3-Dichloropropene	<1.6		1.6	0.48	ug/Kg	☼	09/20/17 08:40	09/21/17 20:09	1
Dibromochloromethane	<1.6		1.6	0.52	ug/Kg	☼	09/20/17 08:40	09/21/17 20:09	1
1,1-Dichloroethane	<1.6		1.6	0.54	ug/Kg	☼	09/20/17 08:40	09/21/17 20:09	1
1,2-Dichloroethane	<4.0		4.0	1.2	ug/Kg	☼	09/20/17 08:40	09/21/17 20:09	1
1,1-Dichloroethene	<1.6		1.6	0.54	ug/Kg	☼	09/20/17 08:40	09/21/17 20:09	1
1,2-Dichloropropane	<1.6		1.6	0.41	ug/Kg	☼	09/20/17 08:40	09/21/17 20:09	1
1,3-Dichloropropene, Total	<1.6		1.6	0.55	ug/Kg	☼	09/20/17 08:40	09/21/17 20:09	1
Ethylbenzene	<1.6		1.6	0.76	ug/Kg	☼	09/20/17 08:40	09/21/17 20:09	1
2-Hexanone	<4.0		4.0	1.2	ug/Kg	☼	09/20/17 08:40	09/21/17 20:09	1
Methylene Chloride	<4.0		4.0	1.6	ug/Kg	☼	09/20/17 08:40	09/21/17 20:09	1
Methyl Ethyl Ketone	<4.0		4.0	1.8	ug/Kg	☼	09/20/17 08:40	09/21/17 20:09	1
methyl isobutyl ketone	<4.0		4.0	1.2	ug/Kg	☼	09/20/17 08:40	09/21/17 20:09	1
Methyl tert-butyl ether	<1.6		1.6	0.46	ug/Kg	☼	09/20/17 08:40	09/21/17 20:09	1
Styrene	<1.6		1.6	0.48	ug/Kg	☼	09/20/17 08:40	09/21/17 20:09	1
1,1,2,2-Tetrachloroethane	<1.6		1.6	0.50	ug/Kg	☼	09/20/17 08:40	09/21/17 20:09	1
Tetrachloroethene	<1.6		1.6	0.54	ug/Kg	☼	09/20/17 08:40	09/21/17 20:09	1
Toluene	<1.6		1.6	0.40	ug/Kg	☼	09/20/17 08:40	09/21/17 20:09	1
trans-1,2-Dichloroethene	<1.6		1.6	0.70	ug/Kg	☼	09/20/17 08:40	09/21/17 20:09	1
trans-1,3-Dichloropropene	<1.6		1.6	0.55	ug/Kg	☼	09/20/17 08:40	09/21/17 20:09	1
1,1,1-Trichloroethane	<1.6		1.6	0.53	ug/Kg	☼	09/20/17 08:40	09/21/17 20:09	1
1,1,2-Trichloroethane	<1.6		1.6	0.68	ug/Kg	☼	09/20/17 08:40	09/21/17 20:09	1
Trichloroethene	<1.6		1.6	0.53	ug/Kg	☼	09/20/17 08:40	09/21/17 20:09	1
Vinyl chloride	<1.6		1.6	0.70	ug/Kg	☼	09/20/17 08:40	09/21/17 20:09	1
Xylenes, Total	<3.2		3.2	0.51	ug/Kg	☼	09/20/17 08:40	09/21/17 20:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		75 - 131	09/20/17 08:40	09/21/17 20:09	1
Dibromofluoromethane	107		75 - 126	09/20/17 08:40	09/21/17 20:09	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134	09/20/17 08:40	09/21/17 20:09	1
Toluene-d8 (Surr)	98		75 - 124	09/20/17 08:40	09/21/17 20:09	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	☼	09/25/17 08:49	09/27/17 17:23	1
1,2-Dichlorobenzene	<190		190	44	ug/Kg	☼	09/25/17 08:49	09/27/17 17:23	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	09/25/17 08:49	09/27/17 17:23	1
1,4-Dichlorobenzene	<190		190	47	ug/Kg	☼	09/25/17 08:49	09/27/17 17:23	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	09/25/17 08:49	09/27/17 17:23	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134252-1

Client Sample ID: FH-6(0-6)-091917

Lab Sample ID: 500-134252-9

Date Collected: 09/19/17 15:03

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	84	ug/Kg	☼	09/25/17 08:49	09/27/17 17:23	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	09/25/17 08:49	09/27/17 17:23	1
2,4-Dichlorophenol	<370		370	88	ug/Kg	☼	09/25/17 08:49	09/27/17 17:23	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	09/25/17 08:49	09/27/17 17:23	1
2,4-Dinitrophenol	<740		740	650	ug/Kg	☼	09/25/17 08:49	09/27/17 17:23	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	09/25/17 08:49	09/27/17 17:23	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	09/25/17 08:49	09/27/17 17:23	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	09/25/17 08:49	09/27/17 17:23	1
2-Chlorophenol	<190		190	63	ug/Kg	☼	09/25/17 08:49	09/27/17 17:23	1
2-Methylnaphthalene	<74		74	6.8	ug/Kg	☼	09/25/17 08:49	09/27/17 17:23	1
2-Methylphenol	<190		190	59	ug/Kg	☼	09/25/17 08:49	09/27/17 17:23	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	09/25/17 08:49	09/27/17 17:23	1
2-Nitrophenol	<370		370	87	ug/Kg	☼	09/25/17 08:49	09/27/17 17:23	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	09/25/17 08:49	09/27/17 17:23	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	09/25/17 08:49	09/27/17 17:23	1
3-Nitroaniline	<370		370	110	ug/Kg	☼	09/25/17 08:49	09/27/17 17:23	1
4,6-Dinitro-2-methylphenol	<740		740	300	ug/Kg	☼	09/25/17 08:49	09/27/17 17:23	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	09/25/17 08:49	09/27/17 17:23	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	09/25/17 08:49	09/27/17 17:23	1
4-Chloroaniline	<740		740	170	ug/Kg	☼	09/25/17 08:49	09/27/17 17:23	1
4-Chlorophenyl phenyl ether	<190		190	43	ug/Kg	☼	09/25/17 08:49	09/27/17 17:23	1
4-Nitroaniline	<370		370	150	ug/Kg	☼	09/25/17 08:49	09/27/17 17:23	1
4-Nitrophenol	<740		740	350	ug/Kg	☼	09/25/17 08:49	09/27/17 17:23	1
Acenaphthene	<37		37	6.6	ug/Kg	☼	09/25/17 08:49	09/27/17 17:23	1
Acenaphthylene	<37		37	4.9	ug/Kg	☼	09/25/17 08:49	09/27/17 17:23	1
Anthracene	8.5 J		37	6.2	ug/Kg	☼	09/25/17 08:49	09/27/17 17:23	1
Benzo[a]anthracene	48		37	5.0	ug/Kg	☼	09/25/17 08:49	09/27/17 17:23	1
Benzo[a]pyrene	56		37	7.1	ug/Kg	☼	09/25/17 08:49	09/27/17 17:23	1
Benzo[b]fluoranthene	90		37	8.0	ug/Kg	☼	09/25/17 08:49	09/27/17 17:23	1
Benzo[g,h,i]perylene	29 J		37	12	ug/Kg	☼	09/25/17 08:49	09/27/17 17:23	1
Benzo[k]fluoranthene	37		37	11	ug/Kg	☼	09/25/17 08:49	09/27/17 17:23	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	09/25/17 08:49	09/27/17 17:23	1
Bis(2-chloroethyl)ether	<190		190	55	ug/Kg	☼	09/25/17 08:49	09/27/17 17:23	1
Bis(2-ethylhexyl) phthalate	<190		190	67	ug/Kg	☼	09/25/17 08:49	09/27/17 17:23	1
Butyl benzyl phthalate	<190		190	70	ug/Kg	☼	09/25/17 08:49	09/27/17 17:23	1
Carbazole	<190		190	92	ug/Kg	☼	09/25/17 08:49	09/27/17 17:23	1
Chrysene	57		37	10	ug/Kg	☼	09/25/17 08:49	09/27/17 17:23	1
Dibenz(a,h)anthracene	13 J		37	7.1	ug/Kg	☼	09/25/17 08:49	09/27/17 17:23	1
Dibenzofuran	<190		190	43	ug/Kg	☼	09/25/17 08:49	09/27/17 17:23	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	09/25/17 08:49	09/27/17 17:23	1
Dimethyl phthalate	<190		190	48	ug/Kg	☼	09/25/17 08:49	09/27/17 17:23	1
Di-n-butyl phthalate	<190		190	56	ug/Kg	☼	09/25/17 08:49	09/27/17 17:23	1
Di-n-octyl phthalate	<190		190	60	ug/Kg	☼	09/25/17 08:49	09/27/17 17:23	1
Fluoranthene	110		37	6.8	ug/Kg	☼	09/25/17 08:49	09/27/17 17:23	1
Fluorene	<37		37	5.2	ug/Kg	☼	09/25/17 08:49	09/27/17 17:23	1
Hexachlorobenzene	<74		74	8.6	ug/Kg	☼	09/25/17 08:49	09/27/17 17:23	1
Hexachlorobutadiene	<190		190	58	ug/Kg	☼	09/25/17 08:49	09/27/17 17:23	1
Hexachlorocyclopentadiene	<740		740	210	ug/Kg	☼	09/25/17 08:49	09/27/17 17:23	1
Hexachloroethane	<190		190	56	ug/Kg	☼	09/25/17 08:49	09/27/17 17:23	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134252-1

Client Sample ID: FH-6(0-6)-091917

Lab Sample ID: 500-134252-9

Date Collected: 09/19/17 15:03

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 85.1

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	29	J	37	9.6	ug/Kg	☼	09/25/17 08:49	09/27/17 17:23	1
Isophorone	<190		190	41	ug/Kg	☼	09/25/17 08:49	09/27/17 17:23	1
Naphthalene	<37		37	5.7	ug/Kg	☼	09/25/17 08:49	09/27/17 17:23	1
Nitrobenzene	<37		37	9.2	ug/Kg	☼	09/25/17 08:49	09/27/17 17:23	1
N-Nitrosodi-n-propylamine	<74		74	45	ug/Kg	☼	09/25/17 08:49	09/27/17 17:23	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	09/25/17 08:49	09/27/17 17:23	1
Pentachlorophenol	<740		740	590	ug/Kg	☼	09/25/17 08:49	09/27/17 17:23	1
Phenanthrene	49		37	5.1	ug/Kg	☼	09/25/17 08:49	09/27/17 17:23	1
Phenol	<190		190	82	ug/Kg	☼	09/25/17 08:49	09/27/17 17:23	1
Pyrene	95		37	7.3	ug/Kg	☼	09/25/17 08:49	09/27/17 17:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	72		25 - 139				09/25/17 08:49	09/27/17 17:23	1
2-Fluorobiphenyl	79		44 - 121				09/25/17 08:49	09/27/17 17:23	1
2-Fluorophenol	101		46 - 133				09/25/17 08:49	09/27/17 17:23	1
Nitrobenzene-d5	75		41 - 120				09/25/17 08:49	09/27/17 17:23	1
Phenol-d5	93		46 - 125				09/25/17 08:49	09/27/17 17:23	1
Terphenyl-d14	96		35 - 160				09/25/17 08:49	09/27/17 17:23	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/22/17 14:49	09/25/17 21:04	1
Barium	0.40	J	0.50	0.050	mg/L		09/22/17 14:49	09/25/17 21:04	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/22/17 14:49	09/25/17 21:04	1
Cadmium	0.0034	J	0.0050	0.0020	mg/L		09/22/17 14:49	09/25/17 21:04	1
Chromium	<0.025		0.025	0.010	mg/L		09/22/17 14:49	09/25/17 21:04	1
Cobalt	0.038		0.025	0.010	mg/L		09/22/17 14:49	09/25/17 21:04	1
Copper	<0.025		0.025	0.010	mg/L		09/22/17 14:49	09/25/17 21:04	1
Iron	<0.40		0.40	0.20	mg/L		09/22/17 14:49	09/25/17 21:04	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/22/17 14:49	09/25/17 21:04	1
Manganese	9.7		0.025	0.010	mg/L		09/22/17 14:49	09/25/17 21:04	1
Nickel	0.032		0.025	0.010	mg/L		09/22/17 14:49	09/25/17 21:04	1
Selenium	<0.050		0.050	0.020	mg/L		09/22/17 14:49	09/25/17 21:04	1
Silver	<0.025		0.025	0.010	mg/L		09/22/17 14:49	09/25/17 21:04	1
Zinc	0.065	J	0.50	0.020	mg/L		09/22/17 14:49	09/25/17 21:04	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		09/22/17 14:51	09/25/17 17:55	1
Barium	0.20	J	0.50	0.050	mg/L		09/22/17 14:51	09/25/17 17:55	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/22/17 14:51	09/25/17 17:55	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/22/17 14:51	09/25/17 17:55	1
Chromium	0.024	J	0.025	0.010	mg/L		09/22/17 14:51	09/25/17 17:55	1
Cobalt	<0.025		0.025	0.010	mg/L		09/22/17 14:51	09/25/17 17:55	1
Copper	0.045		0.025	0.010	mg/L		09/22/17 14:51	09/25/17 17:55	1
Iron	19		0.40	0.20	mg/L		09/22/17 14:51	09/25/17 17:55	1
Lead	0.019		0.0075	0.0075	mg/L		09/22/17 14:51	09/25/17 17:55	1
Manganese	0.19		0.025	0.010	mg/L		09/22/17 14:51	09/25/17 17:55	1
Nickel	0.022	J	0.025	0.010	mg/L		09/22/17 14:51	09/25/17 17:55	1
Selenium	<0.050		0.050	0.020	mg/L		09/22/17 14:51	09/25/17 17:55	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134252-1

Client Sample ID: FH-6(0-6)-091917

Lab Sample ID: 500-134252-9

Date Collected: 09/19/17 15:03

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 85.1

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		09/22/17 14:51	09/25/17 17:55	1
Zinc	0.15	J	0.50	0.020	mg/L		09/22/17 14:51	09/25/17 17:55	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.31	J	1.1	0.22	mg/Kg	☼	09/20/17 17:00	09/21/17 12:54	1
Arsenic	8.6		0.56	0.19	mg/Kg	☼	09/20/17 17:00	09/21/17 12:54	1
Barium	49		0.56	0.064	mg/Kg	☼	09/20/17 17:00	09/21/17 12:54	1
Beryllium	0.61		0.23	0.053	mg/Kg	☼	09/20/17 17:00	09/21/17 12:54	1
Cadmium	0.073	J B	0.11	0.020	mg/Kg	☼	09/20/17 17:00	09/21/17 12:54	1
Calcium	15000	B	11	1.9	mg/Kg	☼	09/20/17 17:00	09/21/17 12:54	1
Chromium	15		0.56	0.28	mg/Kg	☼	09/20/17 17:00	09/21/17 12:54	1
Cobalt	12		0.28	0.074	mg/Kg	☼	09/20/17 17:00	09/21/17 12:54	1
Copper	27		0.56	0.16	mg/Kg	☼	09/20/17 17:00	09/21/17 12:54	1
Iron	18000		11	5.9	mg/Kg	☼	09/20/17 17:00	09/21/17 12:54	1
Lead	24		0.28	0.13	mg/Kg	☼	09/20/17 17:00	09/21/17 12:54	1
Magnesium	9500		5.6	2.8	mg/Kg	☼	09/20/17 17:00	09/21/17 12:54	1
Manganese	360		0.56	0.082	mg/Kg	☼	09/20/17 17:00	09/21/17 12:54	1
Nickel	29		0.56	0.16	mg/Kg	☼	09/20/17 17:00	09/21/17 12:54	1
Potassium	1600		28	10	mg/Kg	☼	09/20/17 17:00	09/21/17 12:54	1
Selenium	<0.56		0.56	0.33	mg/Kg	☼	09/20/17 17:00	09/21/17 12:54	1
Silver	<0.28		0.28	0.073	mg/Kg	☼	09/20/17 17:00	09/21/17 12:54	1
Sodium	76		56	8.4	mg/Kg	☼	09/20/17 17:00	09/21/17 12:54	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	09/20/17 17:00	09/21/17 12:54	1
Vanadium	21		0.28	0.067	mg/Kg	☼	09/20/17 17:00	09/21/17 12:54	1
Zinc	75		1.1	0.50	mg/Kg	☼	09/20/17 17:00	09/21/17 12:54	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		09/22/17 11:15	09/25/17 10:02	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		09/22/17 11:15	09/25/17 10:27	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	39		19	6.4	ug/Kg	☼	09/22/17 16:20	09/25/17 13:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.9		0.20	0.20	SU			09/22/17 16:33	1

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134252-1

Client Sample ID: FH-6(6-12)-091917

Lab Sample ID: 500-134252-10

Date Collected: 09/19/17 15:08

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 87.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	22		16	6.9	ug/Kg	☼	09/20/17 08:40	09/21/17 20:35	1
Benzene	<1.6		1.6	0.40	ug/Kg	☼	09/20/17 08:40	09/21/17 20:35	1
Bromodichloromethane	<1.6		1.6	0.32	ug/Kg	☼	09/20/17 08:40	09/21/17 20:35	1
Bromoform	<1.6		1.6	0.46	ug/Kg	☼	09/20/17 08:40	09/21/17 20:35	1
Bromomethane	<4.0		4.0	1.5	ug/Kg	☼	09/20/17 08:40	09/21/17 20:35	1
Carbon disulfide	<4.0		4.0	0.82	ug/Kg	☼	09/20/17 08:40	09/21/17 20:35	1
Carbon tetrachloride	<1.6		1.6	0.46	ug/Kg	☼	09/20/17 08:40	09/21/17 20:35	1
Chlorobenzene	<1.6		1.6	0.58	ug/Kg	☼	09/20/17 08:40	09/21/17 20:35	1
Chloroethane	<4.0 *		4.0	1.2	ug/Kg	☼	09/20/17 08:40	09/21/17 20:35	1
Chloroform	<1.6		1.6	0.55	ug/Kg	☼	09/20/17 08:40	09/21/17 20:35	1
Chloromethane	<4.0		4.0	1.6	ug/Kg	☼	09/20/17 08:40	09/21/17 20:35	1
cis-1,2-Dichloroethene	<1.6		1.6	0.44	ug/Kg	☼	09/20/17 08:40	09/21/17 20:35	1
cis-1,3-Dichloropropene	<1.6		1.6	0.48	ug/Kg	☼	09/20/17 08:40	09/21/17 20:35	1
Dibromochloromethane	<1.6		1.6	0.52	ug/Kg	☼	09/20/17 08:40	09/21/17 20:35	1
1,1-Dichloroethane	<1.6		1.6	0.54	ug/Kg	☼	09/20/17 08:40	09/21/17 20:35	1
1,2-Dichloroethane	<4.0		4.0	1.2	ug/Kg	☼	09/20/17 08:40	09/21/17 20:35	1
1,1-Dichloroethene	<1.6		1.6	0.54	ug/Kg	☼	09/20/17 08:40	09/21/17 20:35	1
1,2-Dichloropropane	<1.6		1.6	0.41	ug/Kg	☼	09/20/17 08:40	09/21/17 20:35	1
1,3-Dichloropropene, Total	<1.6		1.6	0.55	ug/Kg	☼	09/20/17 08:40	09/21/17 20:35	1
Ethylbenzene	<1.6		1.6	0.76	ug/Kg	☼	09/20/17 08:40	09/21/17 20:35	1
2-Hexanone	<4.0		4.0	1.2	ug/Kg	☼	09/20/17 08:40	09/21/17 20:35	1
Methylene Chloride	<4.0		4.0	1.6	ug/Kg	☼	09/20/17 08:40	09/21/17 20:35	1
Methyl Ethyl Ketone	<4.0		4.0	1.8	ug/Kg	☼	09/20/17 08:40	09/21/17 20:35	1
methyl isobutyl ketone	<4.0		4.0	1.2	ug/Kg	☼	09/20/17 08:40	09/21/17 20:35	1
Methyl tert-butyl ether	<1.6		1.6	0.46	ug/Kg	☼	09/20/17 08:40	09/21/17 20:35	1
Styrene	<1.6		1.6	0.48	ug/Kg	☼	09/20/17 08:40	09/21/17 20:35	1
1,1,2,2-Tetrachloroethane	<1.6		1.6	0.50	ug/Kg	☼	09/20/17 08:40	09/21/17 20:35	1
Tetrachloroethene	<1.6		1.6	0.54	ug/Kg	☼	09/20/17 08:40	09/21/17 20:35	1
Toluene	<1.6		1.6	0.40	ug/Kg	☼	09/20/17 08:40	09/21/17 20:35	1
trans-1,2-Dichloroethene	<1.6		1.6	0.70	ug/Kg	☼	09/20/17 08:40	09/21/17 20:35	1
trans-1,3-Dichloropropene	<1.6		1.6	0.55	ug/Kg	☼	09/20/17 08:40	09/21/17 20:35	1
1,1,1-Trichloroethane	<1.6		1.6	0.53	ug/Kg	☼	09/20/17 08:40	09/21/17 20:35	1
1,1,2-Trichloroethane	<1.6		1.6	0.68	ug/Kg	☼	09/20/17 08:40	09/21/17 20:35	1
Trichloroethene	<1.6		1.6	0.53	ug/Kg	☼	09/20/17 08:40	09/21/17 20:35	1
Vinyl chloride	<1.6		1.6	0.70	ug/Kg	☼	09/20/17 08:40	09/21/17 20:35	1
Xylenes, Total	<3.2		3.2	0.51	ug/Kg	☼	09/20/17 08:40	09/21/17 20:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		75 - 131	09/20/17 08:40	09/21/17 20:35	1
Dibromofluoromethane	101		75 - 126	09/20/17 08:40	09/21/17 20:35	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	09/20/17 08:40	09/21/17 20:35	1
Toluene-d8 (Surr)	101		75 - 124	09/20/17 08:40	09/21/17 20:35	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	☼	09/25/17 08:49	09/27/17 17:46	1
1,2-Dichlorobenzene	<180		180	44	ug/Kg	☼	09/25/17 08:49	09/27/17 17:46	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	09/25/17 08:49	09/27/17 17:46	1
1,4-Dichlorobenzene	<180		180	47	ug/Kg	☼	09/25/17 08:49	09/27/17 17:46	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	09/25/17 08:49	09/27/17 17:46	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134252-1

Client Sample ID: FH-6(6-12)-091917

Lab Sample ID: 500-134252-10

Date Collected: 09/19/17 15:08

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 87.0

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	☼	09/25/17 08:49	09/27/17 17:46	1
2,4,6-Trichlorophenol	<360		360	130	ug/Kg	☼	09/25/17 08:49	09/27/17 17:46	1
2,4-Dichlorophenol	<360		360	87	ug/Kg	☼	09/25/17 08:49	09/27/17 17:46	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	09/25/17 08:49	09/27/17 17:46	1
2,4-Dinitrophenol	<740		740	640	ug/Kg	☼	09/25/17 08:49	09/27/17 17:46	1
2,4-Dinitrotoluene	<180		180	58	ug/Kg	☼	09/25/17 08:49	09/27/17 17:46	1
2,6-Dinitrotoluene	<180		180	72	ug/Kg	☼	09/25/17 08:49	09/27/17 17:46	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	09/25/17 08:49	09/27/17 17:46	1
2-Chlorophenol	<180		180	62	ug/Kg	☼	09/25/17 08:49	09/27/17 17:46	1
2-Methylnaphthalene	8.4	J	74	6.7	ug/Kg	☼	09/25/17 08:49	09/27/17 17:46	1
2-Methylphenol	<180		180	59	ug/Kg	☼	09/25/17 08:49	09/27/17 17:46	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	09/25/17 08:49	09/27/17 17:46	1
2-Nitrophenol	<360		360	86	ug/Kg	☼	09/25/17 08:49	09/27/17 17:46	1
3 & 4 Methylphenol	<180		180	61	ug/Kg	☼	09/25/17 08:49	09/27/17 17:46	1
3,3'-Dichlorobenzidine	<180		180	51	ug/Kg	☼	09/25/17 08:49	09/27/17 17:46	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	09/25/17 08:49	09/27/17 17:46	1
4,6-Dinitro-2-methylphenol	<740		740	290	ug/Kg	☼	09/25/17 08:49	09/27/17 17:46	1
4-Bromophenyl phenyl ether	<180		180	48	ug/Kg	☼	09/25/17 08:49	09/27/17 17:46	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	09/25/17 08:49	09/27/17 17:46	1
4-Chloroaniline	<740		740	170	ug/Kg	☼	09/25/17 08:49	09/27/17 17:46	1
4-Chlorophenyl phenyl ether	<180		180	43	ug/Kg	☼	09/25/17 08:49	09/27/17 17:46	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	09/25/17 08:49	09/27/17 17:46	1
4-Nitrophenol	<740		740	350	ug/Kg	☼	09/25/17 08:49	09/27/17 17:46	1
Acenaphthene	8.9	J	36	6.6	ug/Kg	☼	09/25/17 08:49	09/27/17 17:46	1
Acenaphthylene	6.8	J	36	4.8	ug/Kg	☼	09/25/17 08:49	09/27/17 17:46	1
Anthracene	34	J	36	6.1	ug/Kg	☼	09/25/17 08:49	09/27/17 17:46	1
Benzo[a]anthracene	140		36	4.9	ug/Kg	☼	09/25/17 08:49	09/27/17 17:46	1
Benzo[a]pyrene	140		36	7.1	ug/Kg	☼	09/25/17 08:49	09/27/17 17:46	1
Benzo[b]fluoranthene	190		36	7.9	ug/Kg	☼	09/25/17 08:49	09/27/17 17:46	1
Benzo[g,h,i]perylene	58		36	12	ug/Kg	☼	09/25/17 08:49	09/27/17 17:46	1
Benzo[k]fluoranthene	92		36	11	ug/Kg	☼	09/25/17 08:49	09/27/17 17:46	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	09/25/17 08:49	09/27/17 17:46	1
Bis(2-chloroethyl)ether	<180		180	55	ug/Kg	☼	09/25/17 08:49	09/27/17 17:46	1
Bis(2-ethylhexyl) phthalate	<180		180	67	ug/Kg	☼	09/25/17 08:49	09/27/17 17:46	1
Butyl benzyl phthalate	<180		180	70	ug/Kg	☼	09/25/17 08:49	09/27/17 17:46	1
Carbazole	<180		180	91	ug/Kg	☼	09/25/17 08:49	09/27/17 17:46	1
Chrysene	160		36	10	ug/Kg	☼	09/25/17 08:49	09/27/17 17:46	1
Dibenz(a,h)anthracene	20	J	36	7.1	ug/Kg	☼	09/25/17 08:49	09/27/17 17:46	1
Dibenzofuran	<180		180	43	ug/Kg	☼	09/25/17 08:49	09/27/17 17:46	1
Diethyl phthalate	<180		180	62	ug/Kg	☼	09/25/17 08:49	09/27/17 17:46	1
Dimethyl phthalate	<180		180	48	ug/Kg	☼	09/25/17 08:49	09/27/17 17:46	1
Di-n-butyl phthalate	<180		180	56	ug/Kg	☼	09/25/17 08:49	09/27/17 17:46	1
Di-n-octyl phthalate	<180		180	60	ug/Kg	☼	09/25/17 08:49	09/27/17 17:46	1
Fluoranthene	330		36	6.8	ug/Kg	☼	09/25/17 08:49	09/27/17 17:46	1
Fluorene	15	J	36	5.1	ug/Kg	☼	09/25/17 08:49	09/27/17 17:46	1
Hexachlorobenzene	<74		74	8.5	ug/Kg	☼	09/25/17 08:49	09/27/17 17:46	1
Hexachlorobutadiene	<180		180	57	ug/Kg	☼	09/25/17 08:49	09/27/17 17:46	1
Hexachlorocyclopentadiene	<740		740	210	ug/Kg	☼	09/25/17 08:49	09/27/17 17:46	1
Hexachloroethane	<180		180	56	ug/Kg	☼	09/25/17 08:49	09/27/17 17:46	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134252-1

Client Sample ID: FH-6(6-12)-091917

Lab Sample ID: 500-134252-10

Date Collected: 09/19/17 15:08

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 87.0

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	58		36	9.5	ug/Kg	☼	09/25/17 08:49	09/27/17 17:46	1
Isophorone	<180		180	41	ug/Kg	☼	09/25/17 08:49	09/27/17 17:46	1
Naphthalene	<36		36	5.6	ug/Kg	☼	09/25/17 08:49	09/27/17 17:46	1
Nitrobenzene	<36		36	9.1	ug/Kg	☼	09/25/17 08:49	09/27/17 17:46	1
N-Nitrosodi-n-propylamine	<74		74	45	ug/Kg	☼	09/25/17 08:49	09/27/17 17:46	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	09/25/17 08:49	09/27/17 17:46	1
Pentachlorophenol	<740		740	590	ug/Kg	☼	09/25/17 08:49	09/27/17 17:46	1
Phenanthrene	200		36	5.1	ug/Kg	☼	09/25/17 08:49	09/27/17 17:46	1
Phenol	<180		180	81	ug/Kg	☼	09/25/17 08:49	09/27/17 17:46	1
Pyrene	270		36	7.3	ug/Kg	☼	09/25/17 08:49	09/27/17 17:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	75		25 - 139				09/25/17 08:49	09/27/17 17:46	1
2-Fluorobiphenyl	83		44 - 121				09/25/17 08:49	09/27/17 17:46	1
2-Fluorophenol	104		46 - 133				09/25/17 08:49	09/27/17 17:46	1
Nitrobenzene-d5	79		41 - 120				09/25/17 08:49	09/27/17 17:46	1
Phenol-d5	95		46 - 125				09/25/17 08:49	09/27/17 17:46	1
Terphenyl-d14	95		35 - 160				09/25/17 08:49	09/27/17 17:46	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/22/17 14:49	09/25/17 21:08	1
Barium	0.40	J	0.50	0.050	mg/L		09/22/17 14:49	09/25/17 21:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/22/17 14:49	09/25/17 21:08	1
Cadmium	0.0031	J	0.0050	0.0020	mg/L		09/22/17 14:49	09/25/17 21:08	1
Chromium	<0.025		0.025	0.010	mg/L		09/22/17 14:49	09/25/17 21:08	1
Cobalt	0.034		0.025	0.010	mg/L		09/22/17 14:49	09/25/17 21:08	1
Copper	<0.025		0.025	0.010	mg/L		09/22/17 14:49	09/25/17 21:08	1
Iron	<0.40		0.40	0.20	mg/L		09/22/17 14:49	09/25/17 21:08	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/22/17 14:49	09/25/17 21:08	1
Manganese	9.5		0.025	0.010	mg/L		09/22/17 14:49	09/25/17 21:08	1
Nickel	0.029		0.025	0.010	mg/L		09/22/17 14:49	09/25/17 21:08	1
Selenium	<0.050		0.050	0.020	mg/L		09/22/17 14:49	09/25/17 21:08	1
Silver	<0.025		0.025	0.010	mg/L		09/22/17 14:49	09/25/17 21:08	1
Zinc	0.026	J	0.50	0.020	mg/L		09/22/17 14:49	09/25/17 21:08	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		09/22/17 14:51	09/25/17 17:59	1
Barium	0.23	J	0.50	0.050	mg/L		09/22/17 14:51	09/25/17 17:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/22/17 14:51	09/25/17 17:59	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/22/17 14:51	09/25/17 17:59	1
Chromium	0.027		0.025	0.010	mg/L		09/22/17 14:51	09/25/17 17:59	1
Cobalt	<0.025		0.025	0.010	mg/L		09/22/17 14:51	09/25/17 17:59	1
Copper	0.063		0.025	0.010	mg/L		09/22/17 14:51	09/25/17 17:59	1
Iron	21		0.40	0.20	mg/L		09/22/17 14:51	09/25/17 17:59	1
Lead	0.020		0.0075	0.0075	mg/L		09/22/17 14:51	09/25/17 17:59	1
Manganese	0.33		0.025	0.010	mg/L		09/22/17 14:51	09/25/17 17:59	1
Nickel	0.025		0.025	0.010	mg/L		09/22/17 14:51	09/25/17 17:59	1
Selenium	<0.050		0.050	0.020	mg/L		09/22/17 14:51	09/25/17 17:59	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134252-1

Client Sample ID: FH-6(6-12)-091917

Lab Sample ID: 500-134252-10

Date Collected: 09/19/17 15:08

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 87.0

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		09/22/17 14:51	09/25/17 17:59	1
Zinc	0.17	J	0.50	0.020	mg/L		09/22/17 14:51	09/25/17 17:59	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.45	J	1.1	0.22	mg/Kg	☼	09/20/17 17:00	09/21/17 12:58	1
Arsenic	6.8		0.57	0.20	mg/Kg	☼	09/20/17 17:00	09/21/17 12:58	1
Barium	49		0.57	0.065	mg/Kg	☼	09/20/17 17:00	09/21/17 12:58	1
Beryllium	0.58		0.23	0.054	mg/Kg	☼	09/20/17 17:00	09/21/17 12:58	1
Cadmium	0.12	B	0.11	0.021	mg/Kg	☼	09/20/17 17:00	09/21/17 12:58	1
Calcium	23000	B	11	1.9	mg/Kg	☼	09/20/17 17:00	09/21/17 12:58	1
Chromium	15		0.57	0.28	mg/Kg	☼	09/20/17 17:00	09/21/17 12:58	1
Cobalt	12		0.29	0.075	mg/Kg	☼	09/20/17 17:00	09/21/17 12:58	1
Copper	24		0.57	0.16	mg/Kg	☼	09/20/17 17:00	09/21/17 12:58	1
Iron	17000		11	6.0	mg/Kg	☼	09/20/17 17:00	09/21/17 12:58	1
Lead	19		0.29	0.13	mg/Kg	☼	09/20/17 17:00	09/21/17 12:58	1
Magnesium	14000		5.7	2.8	mg/Kg	☼	09/20/17 17:00	09/21/17 12:58	1
Manganese	570		0.57	0.083	mg/Kg	☼	09/20/17 17:00	09/21/17 12:58	1
Nickel	29		0.57	0.17	mg/Kg	☼	09/20/17 17:00	09/21/17 12:58	1
Potassium	1600		29	10	mg/Kg	☼	09/20/17 17:00	09/21/17 12:58	1
Selenium	<0.57		0.57	0.34	mg/Kg	☼	09/20/17 17:00	09/21/17 12:58	1
Silver	<0.29		0.29	0.074	mg/Kg	☼	09/20/17 17:00	09/21/17 12:58	1
Sodium	85		57	8.5	mg/Kg	☼	09/20/17 17:00	09/21/17 12:58	1
Thallium	<0.57		0.57	0.29	mg/Kg	☼	09/20/17 17:00	09/21/17 12:58	1
Vanadium	20		0.29	0.068	mg/Kg	☼	09/20/17 17:00	09/21/17 12:58	1
Zinc	59		1.1	0.50	mg/Kg	☼	09/20/17 17:00	09/21/17 12:58	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		09/22/17 11:15	09/25/17 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		09/22/17 11:15	09/25/17 10:28	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	37		17	5.5	ug/Kg	☼	09/22/17 16:20	09/25/17 13:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.9		0.20	0.20	SU			09/22/17 16:38	1

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134252-1

Client Sample ID: FH-6(6-12)-091917D

Lab Sample ID: 500-134252-11

Date Collected: 09/19/17 15:08

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 86.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	66		26	12	ug/Kg	☼	09/20/17 08:40	09/21/17 21:00	1
Benzene	<2.6		2.6	0.67	ug/Kg	☼	09/20/17 08:40	09/21/17 21:00	1
Bromodichloromethane	<2.6		2.6	0.54	ug/Kg	☼	09/20/17 08:40	09/21/17 21:00	1
Bromoform	<2.6		2.6	0.77	ug/Kg	☼	09/20/17 08:40	09/21/17 21:00	1
Bromomethane	<6.6		6.6	2.5	ug/Kg	☼	09/20/17 08:40	09/21/17 21:00	1
Carbon disulfide	<6.6		6.6	1.4	ug/Kg	☼	09/20/17 08:40	09/21/17 21:00	1
Carbon tetrachloride	<2.6		2.6	0.77	ug/Kg	☼	09/20/17 08:40	09/21/17 21:00	1
Chlorobenzene	<2.6		2.6	0.98	ug/Kg	☼	09/20/17 08:40	09/21/17 21:00	1
Chloroethane	<6.6 *		6.6	2.0	ug/Kg	☼	09/20/17 08:40	09/21/17 21:00	1
Chloroform	<2.6		2.6	0.92	ug/Kg	☼	09/20/17 08:40	09/21/17 21:00	1
Chloromethane	<6.6		6.6	2.7	ug/Kg	☼	09/20/17 08:40	09/21/17 21:00	1
cis-1,2-Dichloroethene	<2.6		2.6	0.74	ug/Kg	☼	09/20/17 08:40	09/21/17 21:00	1
cis-1,3-Dichloropropene	<2.6		2.6	0.80	ug/Kg	☼	09/20/17 08:40	09/21/17 21:00	1
Dibromochloromethane	<2.6		2.6	0.86	ug/Kg	☼	09/20/17 08:40	09/21/17 21:00	1
1,1-Dichloroethane	<2.6		2.6	0.91	ug/Kg	☼	09/20/17 08:40	09/21/17 21:00	1
1,2-Dichloroethane	<6.6		6.6	2.1	ug/Kg	☼	09/20/17 08:40	09/21/17 21:00	1
1,1-Dichloroethene	<2.6		2.6	0.91	ug/Kg	☼	09/20/17 08:40	09/21/17 21:00	1
1,2-Dichloropropane	<2.6		2.6	0.68	ug/Kg	☼	09/20/17 08:40	09/21/17 21:00	1
1,3-Dichloropropane, Total	<2.6		2.6	0.93	ug/Kg	☼	09/20/17 08:40	09/21/17 21:00	1
Ethylbenzene	<2.6		2.6	1.3	ug/Kg	☼	09/20/17 08:40	09/21/17 21:00	1
2-Hexanone	<6.6		6.6	2.1	ug/Kg	☼	09/20/17 08:40	09/21/17 21:00	1
Methylene Chloride	<6.6		6.6	2.6	ug/Kg	☼	09/20/17 08:40	09/21/17 21:00	1
Methyl Ethyl Ketone	5.3 J		6.6	2.9	ug/Kg	☼	09/20/17 08:40	09/21/17 21:00	1
methyl isobutyl ketone	<6.6		6.6	2.0	ug/Kg	☼	09/20/17 08:40	09/21/17 21:00	1
Methyl tert-butyl ether	<2.6		2.6	0.78	ug/Kg	☼	09/20/17 08:40	09/21/17 21:00	1
Styrene	<2.6		2.6	0.80	ug/Kg	☼	09/20/17 08:40	09/21/17 21:00	1
1,1,2,2-Tetrachloroethane	<2.6		2.6	0.84	ug/Kg	☼	09/20/17 08:40	09/21/17 21:00	1
Tetrachloroethene	<2.6		2.6	0.90	ug/Kg	☼	09/20/17 08:40	09/21/17 21:00	1
Toluene	<2.6		2.6	0.67	ug/Kg	☼	09/20/17 08:40	09/21/17 21:00	1
trans-1,2-Dichloroethene	<2.6		2.6	1.2	ug/Kg	☼	09/20/17 08:40	09/21/17 21:00	1
trans-1,3-Dichloropropene	<2.6		2.6	0.93	ug/Kg	☼	09/20/17 08:40	09/21/17 21:00	1
1,1,1-Trichloroethane	<2.6		2.6	0.89	ug/Kg	☼	09/20/17 08:40	09/21/17 21:00	1
1,1,2-Trichloroethane	<2.6		2.6	1.1	ug/Kg	☼	09/20/17 08:40	09/21/17 21:00	1
Trichloroethene	<2.6		2.6	0.89	ug/Kg	☼	09/20/17 08:40	09/21/17 21:00	1
Vinyl chloride	<2.6		2.6	1.2	ug/Kg	☼	09/20/17 08:40	09/21/17 21:00	1
Xylenes, Total	<5.3		5.3	0.85	ug/Kg	☼	09/20/17 08:40	09/21/17 21:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		75 - 131	09/20/17 08:40	09/21/17 21:00	1
Dibromofluoromethane	101		75 - 126	09/20/17 08:40	09/21/17 21:00	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134	09/20/17 08:40	09/21/17 21:00	1
Toluene-d8 (Surr)	101		75 - 124	09/20/17 08:40	09/21/17 21:00	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	☼	09/25/17 08:49	09/27/17 18:09	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	09/25/17 08:49	09/27/17 18:09	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	09/25/17 08:49	09/27/17 18:09	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	09/25/17 08:49	09/27/17 18:09	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	09/25/17 08:49	09/27/17 18:09	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134252-1

Client Sample ID: FH-6(6-12)-091917D

Lab Sample ID: 500-134252-11

Date Collected: 09/19/17 15:08

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 86.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<380		380	86	ug/Kg	☼	09/25/17 08:49	09/27/17 18:09	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	09/25/17 08:49	09/27/17 18:09	1
2,4-Dichlorophenol	<380		380	90	ug/Kg	☼	09/25/17 08:49	09/27/17 18:09	1
2,4-Dimethylphenol	<380		380	140	ug/Kg	☼	09/25/17 08:49	09/27/17 18:09	1
2,4-Dinitrophenol	<760		760	670	ug/Kg	☼	09/25/17 08:49	09/27/17 18:09	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	09/25/17 08:49	09/27/17 18:09	1
2,6-Dinitrotoluene	<190		190	74	ug/Kg	☼	09/25/17 08:49	09/27/17 18:09	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	09/25/17 08:49	09/27/17 18:09	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	09/25/17 08:49	09/27/17 18:09	1
2-Methylnaphthalene	<76		76	6.9	ug/Kg	☼	09/25/17 08:49	09/27/17 18:09	1
2-Methylphenol	<190		190	61	ug/Kg	☼	09/25/17 08:49	09/27/17 18:09	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	09/25/17 08:49	09/27/17 18:09	1
2-Nitrophenol	<380		380	89	ug/Kg	☼	09/25/17 08:49	09/27/17 18:09	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	09/25/17 08:49	09/27/17 18:09	1
3,3'-Dichlorobenzidine	<190		190	53	ug/Kg	☼	09/25/17 08:49	09/27/17 18:09	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	09/25/17 08:49	09/27/17 18:09	1
4,6-Dinitro-2-methylphenol	<760		760	300	ug/Kg	☼	09/25/17 08:49	09/27/17 18:09	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	09/25/17 08:49	09/27/17 18:09	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	09/25/17 08:49	09/27/17 18:09	1
4-Chloroaniline	<760		760	180	ug/Kg	☼	09/25/17 08:49	09/27/17 18:09	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	09/25/17 08:49	09/27/17 18:09	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	09/25/17 08:49	09/27/17 18:09	1
4-Nitrophenol	<760		760	360	ug/Kg	☼	09/25/17 08:49	09/27/17 18:09	1
Acenaphthene	8.4 J		38	6.8	ug/Kg	☼	09/25/17 08:49	09/27/17 18:09	1
Acenaphthylene	5.5 J		38	5.0	ug/Kg	☼	09/25/17 08:49	09/27/17 18:09	1
Anthracene	29 J		38	6.3	ug/Kg	☼	09/25/17 08:49	09/27/17 18:09	1
Benzo[a]anthracene	100		38	5.1	ug/Kg	☼	09/25/17 08:49	09/27/17 18:09	1
Benzo[a]pyrene	100		38	7.3	ug/Kg	☼	09/25/17 08:49	09/27/17 18:09	1
Benzo[b]fluoranthene	160		38	8.2	ug/Kg	☼	09/25/17 08:49	09/27/17 18:09	1
Benzo[g,h,i]perylene	45		38	12	ug/Kg	☼	09/25/17 08:49	09/27/17 18:09	1
Benzo[k]fluoranthene	64		38	11	ug/Kg	☼	09/25/17 08:49	09/27/17 18:09	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	09/25/17 08:49	09/27/17 18:09	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	09/25/17 08:49	09/27/17 18:09	1
Bis(2-ethylhexyl) phthalate	<190		190	69	ug/Kg	☼	09/25/17 08:49	09/27/17 18:09	1
Butyl benzyl phthalate	<190		190	72	ug/Kg	☼	09/25/17 08:49	09/27/17 18:09	1
Carbazole	<190		190	94	ug/Kg	☼	09/25/17 08:49	09/27/17 18:09	1
Chrysene	120		38	10	ug/Kg	☼	09/25/17 08:49	09/27/17 18:09	1
Dibenz(a,h)anthracene	19 J		38	7.3	ug/Kg	☼	09/25/17 08:49	09/27/17 18:09	1
Dibenzofuran	<190		190	44	ug/Kg	☼	09/25/17 08:49	09/27/17 18:09	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	09/25/17 08:49	09/27/17 18:09	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	09/25/17 08:49	09/27/17 18:09	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	09/25/17 08:49	09/27/17 18:09	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	09/25/17 08:49	09/27/17 18:09	1
Fluoranthene	240		38	7.0	ug/Kg	☼	09/25/17 08:49	09/27/17 18:09	1
Fluorene	11 J		38	5.3	ug/Kg	☼	09/25/17 08:49	09/27/17 18:09	1
Hexachlorobenzene	<76		76	8.8	ug/Kg	☼	09/25/17 08:49	09/27/17 18:09	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	09/25/17 08:49	09/27/17 18:09	1
Hexachlorocyclopentadiene	<760		760	220	ug/Kg	☼	09/25/17 08:49	09/27/17 18:09	1
Hexachloroethane	<190		190	57	ug/Kg	☼	09/25/17 08:49	09/27/17 18:09	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134252-1

Client Sample ID: FH-6(6-12)-091917D

Lab Sample ID: 500-134252-11

Date Collected: 09/19/17 15:08

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 86.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	48		38	9.8	ug/Kg	☼	09/25/17 08:49	09/27/17 18:09	1
Isophorone	<190		190	42	ug/Kg	☼	09/25/17 08:49	09/27/17 18:09	1
Naphthalene	<38		38	5.8	ug/Kg	☼	09/25/17 08:49	09/27/17 18:09	1
Nitrobenzene	<38		38	9.4	ug/Kg	☼	09/25/17 08:49	09/27/17 18:09	1
N-Nitrosodi-n-propylamine	<76		76	46	ug/Kg	☼	09/25/17 08:49	09/27/17 18:09	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	09/25/17 08:49	09/27/17 18:09	1
Pentachlorophenol	<760		760	610	ug/Kg	☼	09/25/17 08:49	09/27/17 18:09	1
Phenanthrene	140		38	5.3	ug/Kg	☼	09/25/17 08:49	09/27/17 18:09	1
Phenol	<190		190	84	ug/Kg	☼	09/25/17 08:49	09/27/17 18:09	1
Pyrene	210		38	7.5	ug/Kg	☼	09/25/17 08:49	09/27/17 18:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>2,4,6-Tribromophenol</i>	63		25 - 139				09/25/17 08:49	09/27/17 18:09	1
<i>2-Fluorobiphenyl</i>	65		44 - 121				09/25/17 08:49	09/27/17 18:09	1
<i>2-Fluorophenol</i>	82		46 - 133				09/25/17 08:49	09/27/17 18:09	1
<i>Nitrobenzene-d5</i>	61		41 - 120				09/25/17 08:49	09/27/17 18:09	1
<i>Phenol-d5</i>	79		46 - 125				09/25/17 08:49	09/27/17 18:09	1
<i>Terphenyl-d14</i>	94		35 - 160				09/25/17 08:49	09/27/17 18:09	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.010	J	0.050	0.010	mg/L		09/22/17 14:49	09/25/17 21:12	1
Barium	0.40	J	0.50	0.050	mg/L		09/22/17 14:49	09/25/17 21:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/22/17 14:49	09/25/17 21:12	1
Cadmium	0.0033	J	0.0050	0.0020	mg/L		09/22/17 14:49	09/25/17 21:12	1
Chromium	<0.025		0.025	0.010	mg/L		09/22/17 14:49	09/25/17 21:12	1
Cobalt	0.038		0.025	0.010	mg/L		09/22/17 14:49	09/25/17 21:12	1
Copper	<0.025		0.025	0.010	mg/L		09/22/17 14:49	09/25/17 21:12	1
Iron	<0.40		0.40	0.20	mg/L		09/22/17 14:49	09/25/17 21:12	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/22/17 14:49	09/25/17 21:12	1
Manganese	11		0.025	0.010	mg/L		09/22/17 14:49	09/25/17 21:12	1
Nickel	0.036		0.025	0.010	mg/L		09/22/17 14:49	09/25/17 21:12	1
Selenium	<0.050		0.050	0.020	mg/L		09/22/17 14:49	09/25/17 21:12	1
Silver	<0.025		0.025	0.010	mg/L		09/22/17 14:49	09/25/17 21:12	1
Zinc	0.029	J	0.50	0.020	mg/L		09/22/17 14:49	09/25/17 21:12	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		09/22/17 14:51	09/25/17 18:02	1
Barium	0.15	J	0.50	0.050	mg/L		09/22/17 14:51	09/25/17 18:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/22/17 14:51	09/25/17 18:02	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/22/17 14:51	09/25/17 18:02	1
Chromium	0.013	J	0.025	0.010	mg/L		09/22/17 14:51	09/25/17 18:02	1
Cobalt	<0.025		0.025	0.010	mg/L		09/22/17 14:51	09/25/17 18:02	1
Copper	0.037		0.025	0.010	mg/L		09/22/17 14:51	09/25/17 18:02	1
Iron	7.2		0.40	0.20	mg/L		09/22/17 14:51	09/25/17 18:02	1
Lead	0.0083		0.0075	0.0075	mg/L		09/22/17 14:51	09/25/17 18:02	1
Manganese	0.15		0.025	0.010	mg/L		09/22/17 14:51	09/25/17 18:02	1
Nickel	0.010	J	0.025	0.010	mg/L		09/22/17 14:51	09/25/17 18:02	1
Selenium	<0.050		0.050	0.020	mg/L		09/22/17 14:51	09/25/17 18:02	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134252-1

Client Sample ID: FH-6(6-12)-091917D

Lab Sample ID: 500-134252-11

Date Collected: 09/19/17 15:08

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 86.4

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		09/22/17 14:51	09/25/17 18:02	1
Zinc	0.11	J	0.50	0.020	mg/L		09/22/17 14:51	09/25/17 18:02	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.30	J	1.1	0.21	mg/Kg	☼	09/20/17 17:00	09/21/17 13:02	1
Arsenic	7.0		0.53	0.18	mg/Kg	☼	09/20/17 17:00	09/21/17 13:02	1
Barium	42		0.53	0.061	mg/Kg	☼	09/20/17 17:00	09/21/17 13:02	1
Beryllium	0.54		0.21	0.050	mg/Kg	☼	09/20/17 17:00	09/21/17 13:02	1
Cadmium	0.11	B	0.11	0.019	mg/Kg	☼	09/20/17 17:00	09/21/17 13:02	1
Calcium	18000	B	11	1.8	mg/Kg	☼	09/20/17 17:00	09/21/17 13:02	1
Chromium	14		0.53	0.26	mg/Kg	☼	09/20/17 17:00	09/21/17 13:02	1
Cobalt	11		0.27	0.070	mg/Kg	☼	09/20/17 17:00	09/21/17 13:02	1
Copper	23		0.53	0.15	mg/Kg	☼	09/20/17 17:00	09/21/17 13:02	1
Iron	16000		11	5.5	mg/Kg	☼	09/20/17 17:00	09/21/17 13:02	1
Lead	19		0.27	0.12	mg/Kg	☼	09/20/17 17:00	09/21/17 13:02	1
Magnesium	12000		5.3	2.6	mg/Kg	☼	09/20/17 17:00	09/21/17 13:02	1
Manganese	390		0.53	0.077	mg/Kg	☼	09/20/17 17:00	09/21/17 13:02	1
Nickel	26		0.53	0.15	mg/Kg	☼	09/20/17 17:00	09/21/17 13:02	1
Potassium	1600		27	9.4	mg/Kg	☼	09/20/17 17:00	09/21/17 13:02	1
Selenium	<0.53		0.53	0.31	mg/Kg	☼	09/20/17 17:00	09/21/17 13:02	1
Silver	<0.27		0.27	0.069	mg/Kg	☼	09/20/17 17:00	09/21/17 13:02	1
Sodium	96		53	7.9	mg/Kg	☼	09/20/17 17:00	09/21/17 13:02	1
Thallium	<0.53		0.53	0.27	mg/Kg	☼	09/20/17 17:00	09/21/17 13:02	1
Vanadium	19		0.27	0.063	mg/Kg	☼	09/20/17 17:00	09/21/17 13:02	1
Zinc	57		1.1	0.47	mg/Kg	☼	09/20/17 17:00	09/21/17 13:02	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		09/22/17 11:15	09/25/17 10:05	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		09/22/17 11:15	09/25/17 10:30	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	38		19	6.4	ug/Kg	☼	09/22/17 16:20	09/25/17 13:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.0		0.20	0.20	SU			09/22/17 16:42	1

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134252-1

Client Sample ID: FH-6(12-18)-091917

Lab Sample ID: 500-134252-12

Date Collected: 09/19/17 15:11

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	23		19	8.2	ug/Kg	☼	09/20/17 08:40	09/21/17 23:44	1
Benzene	<1.9		1.9	0.48	ug/Kg	☼	09/20/17 08:40	09/21/17 23:44	1
Bromodichloromethane	<1.9		1.9	0.38	ug/Kg	☼	09/20/17 08:40	09/21/17 23:44	1
Bromoform	<1.9		1.9	0.55	ug/Kg	☼	09/20/17 08:40	09/21/17 23:44	1
Bromomethane	<4.7		4.7	1.8	ug/Kg	☼	09/20/17 08:40	09/21/17 23:44	1
Carbon disulfide	<4.7		4.7	0.98	ug/Kg	☼	09/20/17 08:40	09/21/17 23:44	1
Carbon tetrachloride	<1.9		1.9	0.54	ug/Kg	☼	09/20/17 08:40	09/21/17 23:44	1
Chlorobenzene	<1.9		1.9	0.69	ug/Kg	☼	09/20/17 08:40	09/21/17 23:44	1
Chloroethane	<4.7 *		4.7	1.4	ug/Kg	☼	09/20/17 08:40	09/21/17 23:44	1
Chloroform	<1.9		1.9	0.65	ug/Kg	☼	09/20/17 08:40	09/21/17 23:44	1
Chloromethane	<4.7		4.7	1.9	ug/Kg	☼	09/20/17 08:40	09/21/17 23:44	1
cis-1,2-Dichloroethene	<1.9		1.9	0.53	ug/Kg	☼	09/20/17 08:40	09/21/17 23:44	1
cis-1,3-Dichloropropene	<1.9		1.9	0.57	ug/Kg	☼	09/20/17 08:40	09/21/17 23:44	1
Dibromochloromethane	<1.9		1.9	0.61	ug/Kg	☼	09/20/17 08:40	09/21/17 23:44	1
1,1-Dichloroethane	<1.9		1.9	0.64	ug/Kg	☼	09/20/17 08:40	09/21/17 23:44	1
1,2-Dichloroethane	<4.7		4.7	1.5	ug/Kg	☼	09/20/17 08:40	09/21/17 23:44	1
1,1-Dichloroethene	<1.9		1.9	0.65	ug/Kg	☼	09/20/17 08:40	09/21/17 23:44	1
1,2-Dichloropropane	<1.9		1.9	0.49	ug/Kg	☼	09/20/17 08:40	09/21/17 23:44	1
1,3-Dichloropropene, Total	<1.9		1.9	0.66	ug/Kg	☼	09/20/17 08:40	09/21/17 23:44	1
Ethylbenzene	<1.9		1.9	0.90	ug/Kg	☼	09/20/17 08:40	09/21/17 23:44	1
2-Hexanone	<4.7		4.7	1.5	ug/Kg	☼	09/20/17 08:40	09/21/17 23:44	1
Methylene Chloride	<4.7		4.7	1.9	ug/Kg	☼	09/20/17 08:40	09/21/17 23:44	1
Methyl Ethyl Ketone	<4.7		4.7	2.1	ug/Kg	☼	09/20/17 08:40	09/21/17 23:44	1
methyl isobutyl ketone	<4.7		4.7	1.4	ug/Kg	☼	09/20/17 08:40	09/21/17 23:44	1
Methyl tert-butyl ether	<1.9		1.9	0.55	ug/Kg	☼	09/20/17 08:40	09/21/17 23:44	1
Styrene	<1.9		1.9	0.57	ug/Kg	☼	09/20/17 08:40	09/21/17 23:44	1
1,1,2,2-Tetrachloroethane	<1.9		1.9	0.60	ug/Kg	☼	09/20/17 08:40	09/21/17 23:44	1
Tetrachloroethene	<1.9		1.9	0.64	ug/Kg	☼	09/20/17 08:40	09/21/17 23:44	1
Toluene	<1.9		1.9	0.47	ug/Kg	☼	09/20/17 08:40	09/21/17 23:44	1
trans-1,2-Dichloroethene	<1.9		1.9	0.83	ug/Kg	☼	09/20/17 08:40	09/21/17 23:44	1
trans-1,3-Dichloropropene	<1.9		1.9	0.66	ug/Kg	☼	09/20/17 08:40	09/21/17 23:44	1
1,1,1-Trichloroethane	<1.9		1.9	0.63	ug/Kg	☼	09/20/17 08:40	09/21/17 23:44	1
1,1,2-Trichloroethane	<1.9		1.9	0.81	ug/Kg	☼	09/20/17 08:40	09/21/17 23:44	1
Trichloroethene	<1.9		1.9	0.64	ug/Kg	☼	09/20/17 08:40	09/21/17 23:44	1
Vinyl chloride	<1.9		1.9	0.83	ug/Kg	☼	09/20/17 08:40	09/21/17 23:44	1
Xylenes, Total	<3.8		3.8	0.60	ug/Kg	☼	09/20/17 08:40	09/21/17 23:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		75 - 131	09/20/17 08:40	09/21/17 23:44	1
Dibromofluoromethane	99		75 - 126	09/20/17 08:40	09/21/17 23:44	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	09/20/17 08:40	09/21/17 23:44	1
Toluene-d8 (Surr)	103		75 - 124	09/20/17 08:40	09/21/17 23:44	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	40	ug/Kg	☼	09/25/17 08:49	09/27/17 18:32	1
1,2-Dichlorobenzene	<190		190	44	ug/Kg	☼	09/25/17 08:49	09/27/17 18:32	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	09/25/17 08:49	09/27/17 18:32	1
1,4-Dichlorobenzene	<190		190	47	ug/Kg	☼	09/25/17 08:49	09/27/17 18:32	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	09/25/17 08:49	09/27/17 18:32	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134252-1

Client Sample ID: FH-6(12-18)-091917

Lab Sample ID: 500-134252-12

Date Collected: 09/19/17 15:11

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	84	ug/Kg	☼	09/25/17 08:49	09/27/17 18:32	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	09/25/17 08:49	09/27/17 18:32	1
2,4-Dichlorophenol	<370		370	88	ug/Kg	☼	09/25/17 08:49	09/27/17 18:32	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	09/25/17 08:49	09/27/17 18:32	1
2,4-Dinitrophenol	<750		750	650	ug/Kg	☼	09/25/17 08:49	09/27/17 18:32	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	09/25/17 08:49	09/27/17 18:32	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	09/25/17 08:49	09/27/17 18:32	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	09/25/17 08:49	09/27/17 18:32	1
2-Chlorophenol	<190		190	63	ug/Kg	☼	09/25/17 08:49	09/27/17 18:32	1
2-Methylnaphthalene	<75		75	6.8	ug/Kg	☼	09/25/17 08:49	09/27/17 18:32	1
2-Methylphenol	<190		190	59	ug/Kg	☼	09/25/17 08:49	09/27/17 18:32	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	09/25/17 08:49	09/27/17 18:32	1
2-Nitrophenol	<370		370	87	ug/Kg	☼	09/25/17 08:49	09/27/17 18:32	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	09/25/17 08:49	09/27/17 18:32	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	09/25/17 08:49	09/27/17 18:32	1
3-Nitroaniline	<370		370	110	ug/Kg	☼	09/25/17 08:49	09/27/17 18:32	1
4,6-Dinitro-2-methylphenol	<750		750	300	ug/Kg	☼	09/25/17 08:49	09/27/17 18:32	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	09/25/17 08:49	09/27/17 18:32	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	09/25/17 08:49	09/27/17 18:32	1
4-Chloroaniline	<750		750	170	ug/Kg	☼	09/25/17 08:49	09/27/17 18:32	1
4-Chlorophenyl phenyl ether	<190		190	43	ug/Kg	☼	09/25/17 08:49	09/27/17 18:32	1
4-Nitroaniline	<370		370	150	ug/Kg	☼	09/25/17 08:49	09/27/17 18:32	1
4-Nitrophenol	<750		750	350	ug/Kg	☼	09/25/17 08:49	09/27/17 18:32	1
Acenaphthene	<37		37	6.6	ug/Kg	☼	09/25/17 08:49	09/27/17 18:32	1
Acenaphthylene	<37		37	4.9	ug/Kg	☼	09/25/17 08:49	09/27/17 18:32	1
Anthracene	11	J	37	6.2	ug/Kg	☼	09/25/17 08:49	09/27/17 18:32	1
Benzo[a]anthracene	46		37	5.0	ug/Kg	☼	09/25/17 08:49	09/27/17 18:32	1
Benzo[a]pyrene	50		37	7.2	ug/Kg	☼	09/25/17 08:49	09/27/17 18:32	1
Benzo[b]fluoranthene	73		37	8.0	ug/Kg	☼	09/25/17 08:49	09/27/17 18:32	1
Benzo[g,h,i]perylene	24	J	37	12	ug/Kg	☼	09/25/17 08:49	09/27/17 18:32	1
Benzo[k]fluoranthene	36	J	37	11	ug/Kg	☼	09/25/17 08:49	09/27/17 18:32	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	09/25/17 08:49	09/27/17 18:32	1
Bis(2-chloroethyl)ether	<190		190	55	ug/Kg	☼	09/25/17 08:49	09/27/17 18:32	1
Bis(2-ethylhexyl) phthalate	<190		190	68	ug/Kg	☼	09/25/17 08:49	09/27/17 18:32	1
Butyl benzyl phthalate	<190		190	70	ug/Kg	☼	09/25/17 08:49	09/27/17 18:32	1
Carbazole	<190		190	92	ug/Kg	☼	09/25/17 08:49	09/27/17 18:32	1
Chrysene	56		37	10	ug/Kg	☼	09/25/17 08:49	09/27/17 18:32	1
Dibenz(a,h)anthracene	8.8	J	37	7.1	ug/Kg	☼	09/25/17 08:49	09/27/17 18:32	1
Dibenzofuran	<190		190	43	ug/Kg	☼	09/25/17 08:49	09/27/17 18:32	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	09/25/17 08:49	09/27/17 18:32	1
Dimethyl phthalate	<190		190	48	ug/Kg	☼	09/25/17 08:49	09/27/17 18:32	1
Di-n-butyl phthalate	<190		190	56	ug/Kg	☼	09/25/17 08:49	09/27/17 18:32	1
Di-n-octyl phthalate	<190		190	60	ug/Kg	☼	09/25/17 08:49	09/27/17 18:32	1
Fluoranthene	110		37	6.9	ug/Kg	☼	09/25/17 08:49	09/27/17 18:32	1
Fluorene	<37		37	5.2	ug/Kg	☼	09/25/17 08:49	09/27/17 18:32	1
Hexachlorobenzene	<75		75	8.6	ug/Kg	☼	09/25/17 08:49	09/27/17 18:32	1
Hexachlorobutadiene	<190		190	58	ug/Kg	☼	09/25/17 08:49	09/27/17 18:32	1
Hexachlorocyclopentadiene	<750		750	210	ug/Kg	☼	09/25/17 08:49	09/27/17 18:32	1
Hexachloroethane	<190		190	56	ug/Kg	☼	09/25/17 08:49	09/27/17 18:32	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134252-1

Client Sample ID: FH-6(12-18)-091917

Lab Sample ID: 500-134252-12

Date Collected: 09/19/17 15:11

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 84.9

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	23	J	37	9.6	ug/Kg	☼	09/25/17 08:49	09/27/17 18:32	1
Isophorone	<190		190	42	ug/Kg	☼	09/25/17 08:49	09/27/17 18:32	1
Naphthalene	<37		37	5.7	ug/Kg	☼	09/25/17 08:49	09/27/17 18:32	1
Nitrobenzene	<37		37	9.2	ug/Kg	☼	09/25/17 08:49	09/27/17 18:32	1
N-Nitrosodi-n-propylamine	<75		75	45	ug/Kg	☼	09/25/17 08:49	09/27/17 18:32	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	09/25/17 08:49	09/27/17 18:32	1
Pentachlorophenol	<750		750	590	ug/Kg	☼	09/25/17 08:49	09/27/17 18:32	1
Phenanthrene	75		37	5.2	ug/Kg	☼	09/25/17 08:49	09/27/17 18:32	1
Phenol	<190		190	82	ug/Kg	☼	09/25/17 08:49	09/27/17 18:32	1
Pyrene	95		37	7.3	ug/Kg	☼	09/25/17 08:49	09/27/17 18:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>2,4,6-Tribromophenol</i>	73		25 - 139				09/25/17 08:49	09/27/17 18:32	1
<i>2-Fluorobiphenyl</i>	79		44 - 121				09/25/17 08:49	09/27/17 18:32	1
<i>2-Fluorophenol</i>	99		46 - 133				09/25/17 08:49	09/27/17 18:32	1
<i>Nitrobenzene-d5</i>	74		41 - 120				09/25/17 08:49	09/27/17 18:32	1
<i>Phenol-d5</i>	91		46 - 125				09/25/17 08:49	09/27/17 18:32	1
<i>Terphenyl-d14</i>	89		35 - 160				09/25/17 08:49	09/27/17 18:32	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		09/22/17 14:49	09/25/17 21:17	1
Barium	0.40	J	0.50	0.050	mg/L		09/22/17 14:49	09/25/17 21:17	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/22/17 14:49	09/25/17 21:17	1
Cadmium	0.0025	J	0.0050	0.0020	mg/L		09/22/17 14:49	09/25/17 21:17	1
Chromium	<0.025		0.025	0.010	mg/L		09/22/17 14:49	09/25/17 21:17	1
Cobalt	0.022	J	0.025	0.010	mg/L		09/22/17 14:49	09/25/17 21:17	1
Copper	<0.025		0.025	0.010	mg/L		09/22/17 14:49	09/25/17 21:17	1
Iron	<0.40		0.40	0.20	mg/L		09/22/17 14:49	09/25/17 21:17	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/22/17 14:49	09/25/17 21:17	1
Manganese	5.7		0.025	0.010	mg/L		09/22/17 14:49	09/25/17 21:17	1
Nickel	0.022	J	0.025	0.010	mg/L		09/22/17 14:49	09/25/17 21:17	1
Selenium	<0.050		0.050	0.020	mg/L		09/22/17 14:49	09/25/17 21:17	1
Silver	<0.025		0.025	0.010	mg/L		09/22/17 14:49	09/25/17 21:17	1
Zinc	0.028	J	0.50	0.020	mg/L		09/22/17 14:49	09/25/17 21:17	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		09/22/17 14:51	09/25/17 18:06	1
Barium	0.083	J	0.50	0.050	mg/L		09/22/17 14:51	09/25/17 18:06	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/22/17 14:51	09/25/17 18:06	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/22/17 14:51	09/25/17 18:06	1
Chromium	<0.025		0.025	0.010	mg/L		09/22/17 14:51	09/25/17 18:06	1
Cobalt	<0.025		0.025	0.010	mg/L		09/22/17 14:51	09/25/17 18:06	1
Copper	0.039		0.025	0.010	mg/L		09/22/17 14:51	09/25/17 18:06	1
Iron	0.26	J	0.40	0.20	mg/L		09/22/17 14:51	09/25/17 18:06	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/22/17 14:51	09/25/17 18:06	1
Manganese	0.14		0.025	0.010	mg/L		09/22/17 14:51	09/25/17 18:06	1
Nickel	<0.025		0.025	0.010	mg/L		09/22/17 14:51	09/25/17 18:06	1
Selenium	<0.050		0.050	0.020	mg/L		09/22/17 14:51	09/25/17 18:06	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134252-1

Client Sample ID: FH-6(12-18)-091917

Lab Sample ID: 500-134252-12

Date Collected: 09/19/17 15:11

Matrix: Solid

Date Received: 09/19/17 16:45

Percent Solids: 84.9

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		09/22/17 14:51	09/25/17 18:06	1
Zinc	0.064	J	0.50	0.020	mg/L		09/22/17 14:51	09/25/17 18:06	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.43	J	1.1	0.22	mg/Kg	☼	09/20/17 17:00	09/21/17 13:18	1
Arsenic	9.4		0.56	0.19	mg/Kg	☼	09/20/17 17:00	09/21/17 13:18	1
Barium	40		0.56	0.064	mg/Kg	☼	09/20/17 17:00	09/21/17 13:18	1
Beryllium	0.58		0.22	0.052	mg/Kg	☼	09/20/17 17:00	09/21/17 13:18	1
Cadmium	0.080	J B	0.11	0.020	mg/Kg	☼	09/20/17 17:00	09/21/17 13:18	1
Calcium	48000	B	110	19	mg/Kg	☼	09/20/17 17:00	09/22/17 12:22	10
Chromium	15		0.56	0.28	mg/Kg	☼	09/20/17 17:00	09/21/17 13:18	1
Cobalt	14		0.28	0.073	mg/Kg	☼	09/20/17 17:00	09/21/17 13:18	1
Copper	27		0.56	0.16	mg/Kg	☼	09/20/17 17:00	09/21/17 13:18	1
Iron	18000		11	5.8	mg/Kg	☼	09/20/17 17:00	09/21/17 13:18	1
Lead	18		0.28	0.13	mg/Kg	☼	09/20/17 17:00	09/21/17 13:18	1
Magnesium	20000		5.6	2.8	mg/Kg	☼	09/20/17 17:00	09/21/17 13:18	1
Manganese	400		0.56	0.081	mg/Kg	☼	09/20/17 17:00	09/21/17 13:18	1
Nickel	34		0.56	0.16	mg/Kg	☼	09/20/17 17:00	09/21/17 13:18	1
Potassium	1900		28	9.9	mg/Kg	☼	09/20/17 17:00	09/21/17 13:18	1
Selenium	<0.56		0.56	0.33	mg/Kg	☼	09/20/17 17:00	09/21/17 13:18	1
Silver	<0.28		0.28	0.072	mg/Kg	☼	09/20/17 17:00	09/21/17 13:18	1
Sodium	99		56	8.3	mg/Kg	☼	09/20/17 17:00	09/21/17 13:18	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	09/20/17 17:00	09/21/17 13:18	1
Vanadium	20		0.28	0.066	mg/Kg	☼	09/20/17 17:00	09/21/17 13:18	1
Zinc	65		1.1	0.49	mg/Kg	☼	09/20/17 17:00	09/21/17 13:18	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		09/22/17 11:15	09/25/17 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		09/22/17 11:15	09/25/17 10:34	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	36		18	6.1	ug/Kg	☼	09/22/17 16:20	09/25/17 13:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.6		0.20	0.20	SU			09/22/17 16:51	1

Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134252-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Weston Solutions, Inc.

TestAmerica Job ID: 500-134252-1

Project/Site: IDOT - Eisenhower Expressway - WO 062

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Illinois	NELAP	5	100201	04-30-19

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

Analysis Method	Prep Method	Matrix	Analyte
8260B	5035	Solid	1,3-Dichloropropene, Total
9045D		Solid	pH
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 604
Phone: 708.534.5200 Fax: 708.534.



500-134252 COC

Report To (optional)
Contact: Babu
Company: Weston
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: _____

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

Chain of Custody Record

Lab Job #: 500-134252

Chain of Custody Number: _____

Page 3 of BA

Temperature °C of Cooler 23.30 12/6/2.9

Client		Client Project #		Preservative		Parameter		Preservative Key							
<u>Weston</u>								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							
Project Name		Project Location/State		Lab Project #		Sampler		Lab PM							
<u>DOT 062 Eisenhower Expressway</u>		<u>DOT 062 Forest Park IL</u>				<u>K. Frey</u>		<u>R. Wright</u>							
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	VOC		SVOC		Total Metals	TOCP/SOP Metals	pH		Comments
			Date	Time											
1		FH-25(10-15)-091917	9/19/17	1326	6	S	X	X	X	X	X	X			
2		FH-25(15-20)-091917		1341	6	S	X	X	X	X	X	X			
3		FH-25(20-25)-091917		1352	6	S	X	X	X	X	X	X			
4		FH-18(0-4)-091917		1407	6	S	X	X	X	X	X	X			
5		FH-18(4-9)-091917		1412	6	S	X	X	X	X	X	X			
6		FH-7(0-6)-091917		1423	6	S	X	X	X	X	X	X			
7		FH-7(6-12)-091917		1431	6	S	X	X	X	X	X	X			
8		FH-7(12-18)-091917		1439	6	S	X	X	X	X	X	X			
9		FH-6(0-6)-091917		1503	6	S	X	X	X	X	X	X			
10		FH-6(6-12)-091917		1508	6	S	X	X	X	X	X	X			

Turnaround Time Required (Business Days)

___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days 10 Days ___ 15 Days ___ Other

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 <u>K. Frey</u> Company <u>Weston</u>	Date <u>9/19/17</u>	Time <u>1542</u>	Received By <u>P. Need</u> Company <u>TA</u>	Date <u>9/19/17</u>	Time <u>1542</u>
Relinquished By <u>P. Need</u> Company <u>TA</u>	Date <u>9/19/17</u>	Time <u>1645</u>	Received By <u>Shirley</u> Company <u>TA-CH</u>	Date <u>9/20/17</u>	Time <u>0730</u>
Relinquished By	Date	Time	Received By	Date	Time

Lab Courier: TA

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

Report To (optional)
 Contact: Babin
 Company: WESTAN
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: _____

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

Chain of Custody Record

Lab Job #: 500-134252
 Chain of Custody Number: _____
 Page 4 of 4
 Temperature °C of Cooler 23.30, 26.29

Client		Client Project #		Preservative		Parameter		Matrix		Preservative Key		
<u>Weston Solutions</u>				<u>9</u>	<u>8</u>	<u>8</u>	<u>8</u>	<u>8</u>				
Project Name		Lab Project #		Sampling		# of Containers	Matrix	Comments				
<u>IDOT 0602 Eisenhower Expressway</u>				Date	Time							
Project Location/State		Lab PM		Date		Time		Comments				
<u>Forest Park, IL</u>		<u>R. Wright</u>		<u>9/19/17</u>		<u>1508</u>						
Sampler		Lab PM		Date		Time		Comments				
<u>K. Fry</u>		<u>R. Wright</u>		<u>9/19/17</u>		<u>1511</u>						
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOC	SVO	Total Metals	TCUP/SERP Metals	pH	Comments
<u>11</u>		<u>FH-(6-12)-091917D</u>	<u>9/19/17</u>	<u>1508</u>	<u>4</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>12</u>		<u>FH-(6-12-18)-091917</u>	<u>↓</u>	<u>1511</u>	<u>6</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	

Turnaround Time Required (Business Days): 1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other
 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: <u>Babin</u> Company: <u>Weston</u> Date: <u>9/19/17</u> Time: <u>1542</u>	Received By: <u>L. Neal</u> Company: <u>TA</u> Date: <u>9/19/17</u> Time: <u>1542</u>	Lab Courier: <u>TA</u>
Relinquished By: <u>L. Neal</u> Company: <u>TA</u> Date: <u>9/19/17</u> Time: <u>1645</u>	Received By: <u>Shirley Scott</u> Company: <u>TA-OPE</u> Date: <u>9/20/17</u> Time: <u>0730</u>	Shipped: _____
Relinquished By: _____ Company: _____ Date: _____ Time: _____	Received By: _____ Company: _____ Date: _____ Time: _____	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

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-134479-1

Client Project/Site: IDOT - Eisenhower Expressway - WO 062

For:

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

Attn: Mr. S. Babusukumar



Authorized for release by:
10/4/2017 3:59:09 PM

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

LINKS

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results through
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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134479-1

Client Sample ID: FH-22(0-5)-092217

Lab Sample ID: 500-134479-1

Date Collected: 09/22/17 07:35

Matrix: Solid

Date Received: 09/22/17 12:15

Percent Solids: 87.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<20		20	8.6	ug/Kg	☼	09/22/17 16:27	09/26/17 06:38	1
Benzene	<2.0		2.0	0.51	ug/Kg	☼	09/22/17 16:27	09/26/17 06:38	1
Bromodichloromethane	<2.0		2.0	0.40	ug/Kg	☼	09/22/17 16:27	09/26/17 06:38	1
Bromoform	<2.0		2.0	0.58	ug/Kg	☼	09/22/17 16:27	09/26/17 06:38	1
Bromomethane	<5.0		5.0	1.9	ug/Kg	☼	09/22/17 16:27	09/26/17 06:38	1
Carbon disulfide	<5.0		5.0	1.0	ug/Kg	☼	09/22/17 16:27	09/26/17 06:38	1
Carbon tetrachloride	<2.0		2.0	0.58	ug/Kg	☼	09/22/17 16:27	09/26/17 06:38	1
Chlorobenzene	<2.0		2.0	0.73	ug/Kg	☼	09/22/17 16:27	09/26/17 06:38	1
Chloroethane	<5.0		5.0	1.5	ug/Kg	☼	09/22/17 16:27	09/26/17 06:38	1
Chloroform	<2.0		2.0	0.69	ug/Kg	☼	09/22/17 16:27	09/26/17 06:38	1
Chloromethane	<5.0		5.0	2.0	ug/Kg	☼	09/22/17 16:27	09/26/17 06:38	1
cis-1,2-Dichloroethene	<2.0		2.0	0.55	ug/Kg	☼	09/22/17 16:27	09/26/17 06:38	1
cis-1,3-Dichloropropene	<2.0		2.0	0.60	ug/Kg	☼	09/22/17 16:27	09/26/17 06:38	1
Dibromochloromethane	<2.0		2.0	0.65	ug/Kg	☼	09/22/17 16:27	09/26/17 06:38	1
1,1-Dichloroethane	<2.0		2.0	0.68	ug/Kg	☼	09/22/17 16:27	09/26/17 06:38	1
1,2-Dichloroethane	<5.0		5.0	1.5	ug/Kg	☼	09/22/17 16:27	09/26/17 06:38	1
1,1-Dichloroethene	<2.0		2.0	0.68	ug/Kg	☼	09/22/17 16:27	09/26/17 06:38	1
1,2-Dichloropropane	<2.0		2.0	0.51	ug/Kg	☼	09/22/17 16:27	09/26/17 06:38	1
1,3-Dichloropropene, Total	<2.0		2.0	0.70	ug/Kg	☼	09/22/17 16:27	09/26/17 06:38	1
Ethylbenzene	<2.0		2.0	0.95	ug/Kg	☼	09/22/17 16:27	09/26/17 06:38	1
2-Hexanone	<5.0		5.0	1.5	ug/Kg	☼	09/22/17 16:27	09/26/17 06:38	1
Methylene Chloride	<5.0		5.0	2.0	ug/Kg	☼	09/22/17 16:27	09/26/17 06:38	1
Methyl Ethyl Ketone	<5.0		5.0	2.2	ug/Kg	☼	09/22/17 16:27	09/26/17 06:38	1
methyl isobutyl ketone	<5.0		5.0	1.5	ug/Kg	☼	09/22/17 16:27	09/26/17 06:38	1
Methyl tert-butyl ether	<2.0		2.0	0.58	ug/Kg	☼	09/22/17 16:27	09/26/17 06:38	1
Styrene	<2.0		2.0	0.60	ug/Kg	☼	09/22/17 16:27	09/26/17 06:38	1
1,1,2,2-Tetrachloroethane	<2.0		2.0	0.63	ug/Kg	☼	09/22/17 16:27	09/26/17 06:38	1
Tetrachloroethene	<2.0		2.0	0.68	ug/Kg	☼	09/22/17 16:27	09/26/17 06:38	1
Toluene	<2.0		2.0	0.50	ug/Kg	☼	09/22/17 16:27	09/26/17 06:38	1
trans-1,2-Dichloroethene	<2.0		2.0	0.88	ug/Kg	☼	09/22/17 16:27	09/26/17 06:38	1
trans-1,3-Dichloropropene	<2.0		2.0	0.70	ug/Kg	☼	09/22/17 16:27	09/26/17 06:38	1
1,1,1-Trichloroethane	<2.0		2.0	0.67	ug/Kg	☼	09/22/17 16:27	09/26/17 06:38	1
1,1,2-Trichloroethane	<2.0		2.0	0.85	ug/Kg	☼	09/22/17 16:27	09/26/17 06:38	1
Trichloroethene	<2.0		2.0	0.67	ug/Kg	☼	09/22/17 16:27	09/26/17 06:38	1
Vinyl chloride	<2.0		2.0	0.88	ug/Kg	☼	09/22/17 16:27	09/26/17 06:38	1
Xylenes, Total	<4.0		4.0	0.64	ug/Kg	☼	09/22/17 16:27	09/26/17 06:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		75 - 131	09/22/17 16:27	09/26/17 06:38	1
Dibromofluoromethane	103		75 - 126	09/22/17 16:27	09/26/17 06:38	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	09/22/17 16:27	09/26/17 06:38	1
Toluene-d8 (Surr)	94		75 - 124	09/22/17 16:27	09/26/17 06:38	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	☼	09/27/17 16:55	10/03/17 13:07	1
1,2-Dichlorobenzene	<190		190	44	ug/Kg	☼	09/27/17 16:55	10/03/17 13:07	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	09/27/17 16:55	10/03/17 13:07	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	09/27/17 16:55	10/03/17 13:07	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	09/27/17 16:55	10/03/17 13:07	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134479-1

Client Sample ID: FH-22(0-5)-092217

Lab Sample ID: 500-134479-1

Date Collected: 09/22/17 07:35

Matrix: Solid

Date Received: 09/22/17 12:15

Percent Solids: 87.7

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	☼	09/27/17 16:55	10/03/17 13:07	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	09/27/17 16:55	10/03/17 13:07	1
2,4-Dichlorophenol	<370		370	88	ug/Kg	☼	09/27/17 16:55	10/03/17 13:07	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	09/27/17 16:55	10/03/17 13:07	1
2,4-Dinitrophenol	<750	*	750	650	ug/Kg	☼	09/27/17 16:55	10/03/17 13:07	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	09/27/17 16:55	10/03/17 13:07	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	09/27/17 16:55	10/03/17 13:07	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	09/27/17 16:55	10/03/17 13:07	1
2-Chlorophenol	<190		190	63	ug/Kg	☼	09/27/17 16:55	10/03/17 13:07	1
2-Methylnaphthalene	<75		75	6.8	ug/Kg	☼	09/27/17 16:55	10/03/17 13:07	1
2-Methylphenol	<190		190	59	ug/Kg	☼	09/27/17 16:55	10/03/17 13:07	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	09/27/17 16:55	10/03/17 13:07	1
2-Nitrophenol	<370		370	88	ug/Kg	☼	09/27/17 16:55	10/03/17 13:07	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	09/27/17 16:55	10/03/17 13:07	1
3,3'-Dichlorobenzidine	<190	F1 F2	190	52	ug/Kg	☼	09/27/17 16:55	10/03/17 13:07	1
3-Nitroaniline	<370		370	110	ug/Kg	☼	09/27/17 16:55	10/03/17 13:07	1
4,6-Dinitro-2-methylphenol	<750		750	300	ug/Kg	☼	09/27/17 16:55	10/03/17 13:07	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	09/27/17 16:55	10/03/17 13:07	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	09/27/17 16:55	10/03/17 13:07	1
4-Chloroaniline	<750	F2	750	170	ug/Kg	☼	09/27/17 16:55	10/03/17 13:07	1
4-Chlorophenyl phenyl ether	<190		190	43	ug/Kg	☼	09/27/17 16:55	10/03/17 13:07	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	09/27/17 16:55	10/03/17 13:07	1
4-Nitrophenol	<750		750	350	ug/Kg	☼	09/27/17 16:55	10/03/17 13:07	1
Acenaphthene	16	J	37	6.7	ug/Kg	☼	09/27/17 16:55	10/03/17 13:07	1
Acenaphthylene	6.9	J	37	4.9	ug/Kg	☼	09/27/17 16:55	10/03/17 13:07	1
Anthracene	51		37	6.2	ug/Kg	☼	09/27/17 16:55	10/03/17 13:07	1
Benzo[a]anthracene	190		37	5.0	ug/Kg	☼	09/27/17 16:55	10/03/17 13:07	1
Benzo[a]pyrene	190		37	7.2	ug/Kg	☼	09/27/17 16:55	10/03/17 13:07	1
Benzo[b]fluoranthene	250		37	8.0	ug/Kg	☼	09/27/17 16:55	10/03/17 13:07	1
Benzo[g,h,i]perylene	79		37	12	ug/Kg	☼	09/27/17 16:55	10/03/17 13:07	1
Benzo[k]fluoranthene	110		37	11	ug/Kg	☼	09/27/17 16:55	10/03/17 13:07	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	09/27/17 16:55	10/03/17 13:07	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	09/27/17 16:55	10/03/17 13:07	1
Bis(2-ethylhexyl) phthalate	<190		190	68	ug/Kg	☼	09/27/17 16:55	10/03/17 13:07	1
Butyl benzyl phthalate	<190		190	70	ug/Kg	☼	09/27/17 16:55	10/03/17 13:07	1
Carbazole	<190		190	93	ug/Kg	☼	09/27/17 16:55	10/03/17 13:07	1
Chrysene	220		37	10	ug/Kg	☼	09/27/17 16:55	10/03/17 13:07	1
Dibenz(a,h)anthracene	22	J	37	7.2	ug/Kg	☼	09/27/17 16:55	10/03/17 13:07	1
Dibenzofuran	<190		190	43	ug/Kg	☼	09/27/17 16:55	10/03/17 13:07	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	09/27/17 16:55	10/03/17 13:07	1
Dimethyl phthalate	<190		190	48	ug/Kg	☼	09/27/17 16:55	10/03/17 13:07	1
Di-n-butyl phthalate	<190		190	56	ug/Kg	☼	09/27/17 16:55	10/03/17 13:07	1
Di-n-octyl phthalate	<190		190	60	ug/Kg	☼	09/27/17 16:55	10/03/17 13:07	1
Fluoranthene	470		37	6.9	ug/Kg	☼	09/27/17 16:55	10/03/17 13:07	1
Fluorene	20	J	37	5.2	ug/Kg	☼	09/27/17 16:55	10/03/17 13:07	1
Hexachlorobenzene	<75		75	8.6	ug/Kg	☼	09/27/17 16:55	10/03/17 13:07	1
Hexachlorobutadiene	<190		190	58	ug/Kg	☼	09/27/17 16:55	10/03/17 13:07	1
Hexachlorocyclopentadiene	<750	F1	750	210	ug/Kg	☼	09/27/17 16:55	10/03/17 13:07	1
Hexachloroethane	<190		190	56	ug/Kg	☼	09/27/17 16:55	10/03/17 13:07	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134479-1

Client Sample ID: FH-22(0-5)-092217

Lab Sample ID: 500-134479-1

Date Collected: 09/22/17 07:35

Matrix: Solid

Date Received: 09/22/17 12:15

Percent Solids: 87.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	79		37	9.6	ug/Kg	☼	09/27/17 16:55	10/03/17 13:07	1
Isophorone	<190		190	42	ug/Kg	☼	09/27/17 16:55	10/03/17 13:07	1
Naphthalene	5.9	J	37	5.7	ug/Kg	☼	09/27/17 16:55	10/03/17 13:07	1
Nitrobenzene	<37		37	9.2	ug/Kg	☼	09/27/17 16:55	10/03/17 13:07	1
N-Nitrosodi-n-propylamine	<75		75	45	ug/Kg	☼	09/27/17 16:55	10/03/17 13:07	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	09/27/17 16:55	10/03/17 13:07	1
Pentachlorophenol	<750	F1	750	590	ug/Kg	☼	09/27/17 16:55	10/03/17 13:07	1
Phenanthrene	260		37	5.2	ug/Kg	☼	09/27/17 16:55	10/03/17 13:07	1
Phenol	<190		190	82	ug/Kg	☼	09/27/17 16:55	10/03/17 13:07	1
Pyrene	400		37	7.4	ug/Kg	☼	09/27/17 16:55	10/03/17 13:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	60		25 - 139				09/27/17 16:55	10/03/17 13:07	1
2-Fluorobiphenyl	84		44 - 121				09/27/17 16:55	10/03/17 13:07	1
2-Fluorophenol	113		46 - 133				09/27/17 16:55	10/03/17 13:07	1
Nitrobenzene-d5	85		41 - 120				09/27/17 16:55	10/03/17 13:07	1
Phenol-d5	98		46 - 125				09/27/17 16:55	10/03/17 13:07	1
Terphenyl-d14	86		35 - 160				09/27/17 16:55	10/03/17 13:07	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/29/17 08:44	09/29/17 20:08	1
Barium	0.32	J	0.50	0.050	mg/L		09/29/17 08:44	09/29/17 20:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/29/17 08:44	09/29/17 20:08	1
Cadmium	0.0025	J	0.0050	0.0020	mg/L		09/29/17 08:44	09/29/17 20:08	1
Chromium	<0.025		0.025	0.010	mg/L		09/29/17 08:44	09/29/17 20:08	1
Cobalt	<0.025		0.025	0.010	mg/L		09/29/17 08:44	09/29/17 20:08	1
Copper	0.018	J	0.025	0.010	mg/L		09/29/17 08:44	09/29/17 20:08	1
Iron	0.22	J	0.40	0.20	mg/L		09/29/17 08:44	09/29/17 20:08	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/29/17 08:44	09/29/17 20:08	1
Manganese	0.24		0.025	0.010	mg/L		09/29/17 08:44	09/29/17 20:08	1
Nickel	<0.025		0.025	0.010	mg/L		09/29/17 08:44	09/29/17 20:08	1
Selenium	<0.050		0.050	0.020	mg/L		09/29/17 08:44	09/29/17 20:08	1
Silver	<0.025		0.025	0.010	mg/L		09/29/17 08:44	09/29/17 20:08	1
Zinc	0.063	J ^	0.50	0.020	mg/L		09/29/17 08:44	09/29/17 20:08	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		09/28/17 15:44	09/29/17 13:08	1
Barium	0.19	J B	0.50	0.050	mg/L		09/28/17 15:44	09/29/17 13:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/28/17 15:44	09/29/17 13:08	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/28/17 15:44	09/29/17 13:08	1
Chromium	0.023	J	0.025	0.010	mg/L		09/28/17 15:44	09/29/17 13:08	1
Cobalt	<0.025		0.025	0.010	mg/L		09/28/17 15:44	09/29/17 13:08	1
Copper	0.043	B	0.025	0.010	mg/L		09/28/17 15:44	09/29/17 13:08	1
Iron	19		0.40	0.20	mg/L		09/28/17 15:44	09/29/17 13:08	1
Lead	0.013		0.0075	0.0075	mg/L		09/28/17 15:44	09/29/17 13:08	1
Manganese	0.12	B	0.025	0.010	mg/L		09/28/17 15:44	09/29/17 13:08	1
Nickel	0.021	J	0.025	0.010	mg/L		09/28/17 15:44	09/29/17 13:08	1
Selenium	<0.050		0.050	0.020	mg/L		09/28/17 15:44	09/29/17 13:08	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134479-1

Client Sample ID: FH-22(0-5)-092217

Lab Sample ID: 500-134479-1

Date Collected: 09/22/17 07:35

Matrix: Solid

Date Received: 09/22/17 12:15

Percent Solids: 87.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		09/28/17 15:44	09/29/17 13:08	1
Zinc	0.13	J ^ B	0.50	0.020	mg/L		09/28/17 15:44	09/29/17 13:08	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.48	J F1 F2	1.1	0.22	mg/Kg	☼	09/26/17 16:04	09/27/17 21:01	1
Arsenic	8.1	F1	0.55	0.19	mg/Kg	☼	09/26/17 16:04	09/27/17 21:01	1
Barium	49	F1 F2	0.55	0.063	mg/Kg	☼	09/26/17 16:04	09/27/17 21:01	1
Beryllium	0.66	F1 F2	0.22	0.052	mg/Kg	☼	09/26/17 16:04	09/27/17 21:01	1
Cadmium	0.21	B F1 F2	0.11	0.020	mg/Kg	☼	09/26/17 16:04	09/27/17 21:01	1
Calcium	17000	B	11	1.9	mg/Kg	☼	09/26/17 16:04	09/27/17 21:01	1
Chromium	15	F1 F2	0.55	0.27	mg/Kg	☼	09/26/17 16:04	09/27/17 21:01	1
Cobalt	10	F1 F2	0.28	0.073	mg/Kg	☼	09/26/17 16:04	09/27/17 21:01	1
Copper	25	B F1	0.55	0.16	mg/Kg	☼	09/26/17 16:04	09/27/17 21:01	1
Iron	17000	F2	11	5.8	mg/Kg	☼	09/26/17 16:04	09/27/17 21:01	1
Lead	30		0.28	0.13	mg/Kg	☼	09/26/17 16:04	09/27/17 21:01	1
Magnesium	11000		5.5	2.7	mg/Kg	☼	09/26/17 16:04	09/27/17 21:01	1
Manganese	330		0.55	0.080	mg/Kg	☼	09/26/17 16:04	09/27/17 21:01	1
Nickel	25	F1 F2	0.55	0.16	mg/Kg	☼	09/26/17 16:04	09/27/17 21:01	1
Potassium	1600	F1	28	9.8	mg/Kg	☼	09/26/17 16:04	09/27/17 21:01	1
Selenium	<0.55	F1 F2	0.55	0.33	mg/Kg	☼	09/26/17 16:04	09/27/17 21:01	1
Silver	<0.28	F1 F2	0.28	0.071	mg/Kg	☼	09/26/17 16:04	09/27/17 21:01	1
Sodium	75	F1 F2	55	8.2	mg/Kg	☼	09/26/17 16:04	09/27/17 21:01	1
Thallium	<0.55	F1 F2	0.55	0.28	mg/Kg	☼	09/26/17 16:04	09/27/17 21:01	1
Vanadium	22	F1 F2	0.28	0.065	mg/Kg	☼	09/26/17 16:04	09/27/17 21:01	1
Zinc	68	F1 F2	1.1	0.49	mg/Kg	☼	09/26/17 16:04	09/27/17 21:01	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		09/29/17 11:25	10/02/17 08:38	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		09/28/17 13:25	09/29/17 11:24	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	48		19	6.2	ug/Kg	☼	09/29/17 07:10	09/29/17 14:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.4		0.20	0.20	SU			09/28/17 15:50	1

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134479-1

Client Sample ID: FH-22(5-10)-092217

Lab Sample ID: 500-134479-2

Date Collected: 09/22/17 07:40

Matrix: Solid

Date Received: 09/22/17 12:15

Percent Solids: 83.9

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	☼	09/22/17 16:27	09/26/17 07:03	1
Benzene	<1.8		1.8	0.46	ug/Kg	☼	09/22/17 16:27	09/26/17 07:03	1
Bromodichloromethane	<1.8		1.8	0.37	ug/Kg	☼	09/22/17 16:27	09/26/17 07:03	1
Bromoform	<1.8		1.8	0.53	ug/Kg	☼	09/22/17 16:27	09/26/17 07:03	1
Bromomethane	<4.5		4.5	1.7	ug/Kg	☼	09/22/17 16:27	09/26/17 07:03	1
Carbon disulfide	<4.5		4.5	0.94	ug/Kg	☼	09/22/17 16:27	09/26/17 07:03	1
Carbon tetrachloride	<1.8		1.8	0.52	ug/Kg	☼	09/22/17 16:27	09/26/17 07:03	1
Chlorobenzene	<1.8		1.8	0.67	ug/Kg	☼	09/22/17 16:27	09/26/17 07:03	1
Chloroethane	<4.5		4.5	1.3	ug/Kg	☼	09/22/17 16:27	09/26/17 07:03	1
Chloroform	<1.8		1.8	0.63	ug/Kg	☼	09/22/17 16:27	09/26/17 07:03	1
Chloromethane	<4.5		4.5	1.8	ug/Kg	☼	09/22/17 16:27	09/26/17 07:03	1
cis-1,2-Dichloroethene	<1.8		1.8	0.50	ug/Kg	☼	09/22/17 16:27	09/26/17 07:03	1
cis-1,3-Dichloropropene	<1.8		1.8	0.54	ug/Kg	☼	09/22/17 16:27	09/26/17 07:03	1
Dibromochloromethane	<1.8		1.8	0.59	ug/Kg	☼	09/22/17 16:27	09/26/17 07:03	1
1,1-Dichloroethane	<1.8		1.8	0.62	ug/Kg	☼	09/22/17 16:27	09/26/17 07:03	1
1,2-Dichloroethane	<4.5		4.5	1.4	ug/Kg	☼	09/22/17 16:27	09/26/17 07:03	1
1,1-Dichloroethene	<1.8		1.8	0.62	ug/Kg	☼	09/22/17 16:27	09/26/17 07:03	1
1,2-Dichloropropane	<1.8		1.8	0.47	ug/Kg	☼	09/22/17 16:27	09/26/17 07:03	1
1,3-Dichloropropane, Total	<1.8		1.8	0.63	ug/Kg	☼	09/22/17 16:27	09/26/17 07:03	1
Ethylbenzene	<1.8		1.8	0.86	ug/Kg	☼	09/22/17 16:27	09/26/17 07:03	1
2-Hexanone	<4.5		4.5	1.4	ug/Kg	☼	09/22/17 16:27	09/26/17 07:03	1
Methylene Chloride	<4.5		4.5	1.8	ug/Kg	☼	09/22/17 16:27	09/26/17 07:03	1
Methyl Ethyl Ketone	<4.5		4.5	2.0	ug/Kg	☼	09/22/17 16:27	09/26/17 07:03	1
methyl isobutyl ketone	<4.5		4.5	1.3	ug/Kg	☼	09/22/17 16:27	09/26/17 07:03	1
Methyl tert-butyl ether	<1.8		1.8	0.53	ug/Kg	☼	09/22/17 16:27	09/26/17 07:03	1
Styrene	<1.8		1.8	0.54	ug/Kg	☼	09/22/17 16:27	09/26/17 07:03	1
1,1,2,2-Tetrachloroethane	<1.8		1.8	0.58	ug/Kg	☼	09/22/17 16:27	09/26/17 07:03	1
Tetrachloroethene	<1.8		1.8	0.61	ug/Kg	☼	09/22/17 16:27	09/26/17 07:03	1
Toluene	<1.8		1.8	0.46	ug/Kg	☼	09/22/17 16:27	09/26/17 07:03	1
trans-1,2-Dichloroethene	<1.8		1.8	0.80	ug/Kg	☼	09/22/17 16:27	09/26/17 07:03	1
trans-1,3-Dichloropropene	<1.8		1.8	0.63	ug/Kg	☼	09/22/17 16:27	09/26/17 07:03	1
1,1,1-Trichloroethane	<1.8		1.8	0.61	ug/Kg	☼	09/22/17 16:27	09/26/17 07:03	1
1,1,2-Trichloroethane	<1.8		1.8	0.77	ug/Kg	☼	09/22/17 16:27	09/26/17 07:03	1
Trichloroethene	<1.8		1.8	0.61	ug/Kg	☼	09/22/17 16:27	09/26/17 07:03	1
Vinyl chloride	<1.8		1.8	0.80	ug/Kg	☼	09/22/17 16:27	09/26/17 07:03	1
Xylenes, Total	<3.6		3.6	0.58	ug/Kg	☼	09/22/17 16:27	09/26/17 07:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		75 - 131	09/22/17 16:27	09/26/17 07:03	1
Dibromofluoromethane	103		75 - 126	09/22/17 16:27	09/26/17 07:03	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	09/22/17 16:27	09/26/17 07:03	1
Toluene-d8 (Surr)	96		75 - 124	09/22/17 16:27	09/26/17 07:03	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	☼	09/27/17 16:55	10/03/17 14:00	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	09/27/17 16:55	10/03/17 14:00	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	09/27/17 16:55	10/03/17 14:00	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	09/27/17 16:55	10/03/17 14:00	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	09/27/17 16:55	10/03/17 14:00	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134479-1

Client Sample ID: FH-22(5-10)-092217

Lab Sample ID: 500-134479-2

Date Collected: 09/22/17 07:40

Matrix: Solid

Date Received: 09/22/17 12:15

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	<380		380	87	ug/Kg	☼	09/27/17 16:55	10/03/17 14:00	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	09/27/17 16:55	10/03/17 14:00	1
2,4-Dichlorophenol	<380		380	90	ug/Kg	☼	09/27/17 16:55	10/03/17 14:00	1
2,4-Dimethylphenol	<380		380	140	ug/Kg	☼	09/27/17 16:55	10/03/17 14:00	1
2,4-Dinitrophenol	<770 *		770	670	ug/Kg	☼	09/27/17 16:55	10/03/17 14:00	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	09/27/17 16:55	10/03/17 14:00	1
2,6-Dinitrotoluene	<190		190	75	ug/Kg	☼	09/27/17 16:55	10/03/17 14:00	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	09/27/17 16:55	10/03/17 14:00	1
2-Chlorophenol	<190		190	65	ug/Kg	☼	09/27/17 16:55	10/03/17 14:00	1
2-Methylnaphthalene	<77		77	7.0	ug/Kg	☼	09/27/17 16:55	10/03/17 14:00	1
2-Methylphenol	<190		190	61	ug/Kg	☼	09/27/17 16:55	10/03/17 14:00	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	09/27/17 16:55	10/03/17 14:00	1
2-Nitrophenol	<380		380	90	ug/Kg	☼	09/27/17 16:55	10/03/17 14:00	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	09/27/17 16:55	10/03/17 14:00	1
3,3'-Dichlorobenzidine	<190		190	53	ug/Kg	☼	09/27/17 16:55	10/03/17 14:00	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	09/27/17 16:55	10/03/17 14:00	1
4,6-Dinitro-2-methylphenol	<770		770	310	ug/Kg	☼	09/27/17 16:55	10/03/17 14:00	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	09/27/17 16:55	10/03/17 14:00	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	09/27/17 16:55	10/03/17 14:00	1
4-Chloroaniline	<770		770	180	ug/Kg	☼	09/27/17 16:55	10/03/17 14:00	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	09/27/17 16:55	10/03/17 14:00	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	09/27/17 16:55	10/03/17 14:00	1
4-Nitrophenol	<770		770	360	ug/Kg	☼	09/27/17 16:55	10/03/17 14:00	1
Acenaphthene	<38		38	6.8	ug/Kg	☼	09/27/17 16:55	10/03/17 14:00	1
Acenaphthylene	<38		38	5.0	ug/Kg	☼	09/27/17 16:55	10/03/17 14:00	1
Anthracene	<38		38	6.4	ug/Kg	☼	09/27/17 16:55	10/03/17 14:00	1
Benzo[a]anthracene	31 J		38	5.1	ug/Kg	☼	09/27/17 16:55	10/03/17 14:00	1
Benzo[a]pyrene	32 J		38	7.4	ug/Kg	☼	09/27/17 16:55	10/03/17 14:00	1
Benzo[b]fluoranthene	46		38	8.2	ug/Kg	☼	09/27/17 16:55	10/03/17 14:00	1
Benzo[g,h,i]perylene	19 J		38	12	ug/Kg	☼	09/27/17 16:55	10/03/17 14:00	1
Benzo[k]fluoranthene	18 J		38	11	ug/Kg	☼	09/27/17 16:55	10/03/17 14:00	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	09/27/17 16:55	10/03/17 14:00	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	09/27/17 16:55	10/03/17 14:00	1
Bis(2-ethylhexyl) phthalate	<190		190	70	ug/Kg	☼	09/27/17 16:55	10/03/17 14:00	1
Butyl benzyl phthalate	<190		190	72	ug/Kg	☼	09/27/17 16:55	10/03/17 14:00	1
Carbazole	<190		190	95	ug/Kg	☼	09/27/17 16:55	10/03/17 14:00	1
Chrysene	38		38	10	ug/Kg	☼	09/27/17 16:55	10/03/17 14:00	1
Dibenz(a,h)anthracene	<38		38	7.4	ug/Kg	☼	09/27/17 16:55	10/03/17 14:00	1
Dibenzofuran	<190		190	45	ug/Kg	☼	09/27/17 16:55	10/03/17 14:00	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	09/27/17 16:55	10/03/17 14:00	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	09/27/17 16:55	10/03/17 14:00	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	09/27/17 16:55	10/03/17 14:00	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	09/27/17 16:55	10/03/17 14:00	1
Fluoranthene	71		38	7.1	ug/Kg	☼	09/27/17 16:55	10/03/17 14:00	1
Fluorene	<38		38	5.3	ug/Kg	☼	09/27/17 16:55	10/03/17 14:00	1
Hexachlorobenzene	<77		77	8.8	ug/Kg	☼	09/27/17 16:55	10/03/17 14:00	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	09/27/17 16:55	10/03/17 14:00	1
Hexachlorocyclopentadiene	<770		770	220	ug/Kg	☼	09/27/17 16:55	10/03/17 14:00	1
Hexachloroethane	<190		190	58	ug/Kg	☼	09/27/17 16:55	10/03/17 14:00	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134479-1

Client Sample ID: FH-22(5-10)-092217

Lab Sample ID: 500-134479-2

Date Collected: 09/22/17 07:40

Matrix: Solid

Date Received: 09/22/17 12:15

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	17	J	38	9.9	ug/Kg	☼	09/27/17 16:55	10/03/17 14:00	1
Isophorone	<190		190	43	ug/Kg	☼	09/27/17 16:55	10/03/17 14:00	1
Naphthalene	<38		38	5.9	ug/Kg	☼	09/27/17 16:55	10/03/17 14:00	1
Nitrobenzene	<38		38	9.5	ug/Kg	☼	09/27/17 16:55	10/03/17 14:00	1
N-Nitrosodi-n-propylamine	<77		77	47	ug/Kg	☼	09/27/17 16:55	10/03/17 14:00	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	09/27/17 16:55	10/03/17 14:00	1
Pentachlorophenol	<770		770	610	ug/Kg	☼	09/27/17 16:55	10/03/17 14:00	1
Phenanthrene	36	J	38	5.3	ug/Kg	☼	09/27/17 16:55	10/03/17 14:00	1
Phenol	<190		190	85	ug/Kg	☼	09/27/17 16:55	10/03/17 14:00	1
Pyrene	41		38	7.6	ug/Kg	☼	09/27/17 16:55	10/03/17 14:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	37		25 - 139				09/27/17 16:55	10/03/17 14:00	1
2-Fluorobiphenyl	88		44 - 121				09/27/17 16:55	10/03/17 14:00	1
2-Fluorophenol	119		46 - 133				09/27/17 16:55	10/03/17 14:00	1
Nitrobenzene-d5	90		41 - 120				09/27/17 16:55	10/03/17 14:00	1
Phenol-d5	100		46 - 125				09/27/17 16:55	10/03/17 14:00	1
Terphenyl-d14	88		35 - 160				09/27/17 16:55	10/03/17 14:00	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		09/29/17 08:44	09/29/17 20:12	1
Barium	0.28	J	0.50	0.050	mg/L		09/29/17 08:44	09/29/17 20:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/29/17 08:44	09/29/17 20:12	1
Cadmium	0.0025	J	0.0050	0.0020	mg/L		09/29/17 08:44	09/29/17 20:12	1
Chromium	<0.025		0.025	0.010	mg/L		09/29/17 08:44	09/29/17 20:12	1
Cobalt	<0.025		0.025	0.010	mg/L		09/29/17 08:44	09/29/17 20:12	1
Copper	<0.025		0.025	0.010	mg/L		09/29/17 08:44	09/29/17 20:12	1
Iron	<0.40		0.40	0.20	mg/L		09/29/17 08:44	09/29/17 20:12	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/29/17 08:44	09/29/17 20:12	1
Manganese	0.38		0.025	0.010	mg/L		09/29/17 08:44	09/29/17 20:12	1
Nickel	0.010	J	0.025	0.010	mg/L		09/29/17 08:44	09/29/17 20:12	1
Selenium	<0.050		0.050	0.020	mg/L		09/29/17 08:44	09/29/17 20:12	1
Silver	<0.025		0.025	0.010	mg/L		09/29/17 08:44	09/29/17 20:12	1
Zinc	<0.50	^	0.50	0.020	mg/L		09/29/17 08:44	09/29/17 20:12	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		09/28/17 15:44	09/29/17 13:12	1
Barium	<0.50		0.50	0.050	mg/L		09/28/17 15:44	09/29/17 13:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/28/17 15:44	09/29/17 13:12	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/28/17 15:44	09/29/17 13:12	1
Chromium	0.010	J	0.025	0.010	mg/L		09/28/17 15:44	09/29/17 13:12	1
Cobalt	<0.025		0.025	0.010	mg/L		09/28/17 15:44	09/29/17 13:12	1
Copper	0.012	J B	0.025	0.010	mg/L		09/28/17 15:44	09/29/17 13:12	1
Iron	8.1		0.40	0.20	mg/L		09/28/17 15:44	09/29/17 13:12	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/28/17 15:44	09/29/17 13:12	1
Manganese	0.031	B	0.025	0.010	mg/L		09/28/17 15:44	09/29/17 13:12	1
Nickel	<0.025		0.025	0.010	mg/L		09/28/17 15:44	09/29/17 13:12	1
Selenium	<0.050		0.050	0.020	mg/L		09/28/17 15:44	09/29/17 13:12	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134479-1

Client Sample ID: FH-22(5-10)-092217

Lab Sample ID: 500-134479-2

Date Collected: 09/22/17 07:40

Matrix: Solid

Date Received: 09/22/17 12:15

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		09/28/17 15:44	09/29/17 13:12	1
Zinc	0.024	J ^ B	0.50	0.020	mg/L		09/28/17 15:44	09/29/17 13:12	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.31	J	1.1	0.22	mg/Kg	☼	09/26/17 16:04	09/27/17 21:29	1
Arsenic	8.7		0.56	0.19	mg/Kg	☼	09/26/17 16:04	09/27/17 21:29	1
Barium	54		0.56	0.064	mg/Kg	☼	09/26/17 16:04	09/27/17 21:29	1
Beryllium	0.76		0.23	0.053	mg/Kg	☼	09/26/17 16:04	09/27/17 21:29	1
Cadmium	0.24	B	0.11	0.020	mg/Kg	☼	09/26/17 16:04	09/27/17 21:29	1
Calcium	52000	B	110	19	mg/Kg	☼	09/26/17 16:04	09/28/17 12:15	10
Chromium	18		0.56	0.28	mg/Kg	☼	09/26/17 16:04	09/27/17 21:29	1
Cobalt	14		0.28	0.074	mg/Kg	☼	09/26/17 16:04	09/27/17 21:29	1
Copper	27	B	0.56	0.16	mg/Kg	☼	09/26/17 16:04	09/27/17 21:29	1
Iron	20000		11	5.9	mg/Kg	☼	09/26/17 16:04	09/27/17 21:29	1
Lead	19		0.28	0.13	mg/Kg	☼	09/26/17 16:04	09/27/17 21:29	1
Magnesium	21000		5.6	2.8	mg/Kg	☼	09/26/17 16:04	09/27/17 21:29	1
Manganese	600		0.56	0.082	mg/Kg	☼	09/26/17 16:04	09/27/17 21:29	1
Nickel	36		0.56	0.16	mg/Kg	☼	09/26/17 16:04	09/27/17 21:29	1
Potassium	2600		28	10	mg/Kg	☼	09/26/17 16:04	09/27/17 21:29	1
Selenium	<0.56		0.56	0.33	mg/Kg	☼	09/26/17 16:04	09/27/17 21:29	1
Silver	<0.28		0.28	0.073	mg/Kg	☼	09/26/17 16:04	09/27/17 21:29	1
Sodium	110		56	8.3	mg/Kg	☼	09/26/17 16:04	09/27/17 21:29	1
Thallium	0.30	J	0.56	0.28	mg/Kg	☼	09/26/17 16:04	09/27/17 21:29	1
Vanadium	24		0.28	0.067	mg/Kg	☼	09/26/17 16:04	09/27/17 21:29	1
Zinc	61		1.1	0.49	mg/Kg	☼	09/26/17 16:04	09/27/17 21:29	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		09/29/17 11:25	10/02/17 08:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		09/28/17 13:25	09/29/17 11:30	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	35		19	6.2	ug/Kg	☼	09/29/17 07:10	09/29/17 14:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.2		0.20	0.20	SU			09/28/17 15:52	1

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134479-1

Client Sample ID: FH-22(10-15)-092217

Lab Sample ID: 500-134479-3

Date Collected: 09/22/17 07:48

Matrix: Solid

Date Received: 09/22/17 12:15

Percent Solids: 83.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	41		17	7.5	ug/Kg	☼	09/22/17 16:27	09/26/17 07:29	1
Benzene	<1.7		1.7	0.44	ug/Kg	☼	09/22/17 16:27	09/26/17 07:29	1
Bromodichloromethane	<1.7		1.7	0.35	ug/Kg	☼	09/22/17 16:27	09/26/17 07:29	1
Bromoform	<1.7		1.7	0.50	ug/Kg	☼	09/22/17 16:27	09/26/17 07:29	1
Bromomethane	<4.3		4.3	1.6	ug/Kg	☼	09/22/17 16:27	09/26/17 07:29	1
Carbon disulfide	<4.3		4.3	0.90	ug/Kg	☼	09/22/17 16:27	09/26/17 07:29	1
Carbon tetrachloride	<1.7		1.7	0.50	ug/Kg	☼	09/22/17 16:27	09/26/17 07:29	1
Chlorobenzene	<1.7		1.7	0.64	ug/Kg	☼	09/22/17 16:27	09/26/17 07:29	1
Chloroethane	<4.3		4.3	1.3	ug/Kg	☼	09/22/17 16:27	09/26/17 07:29	1
Chloroform	<1.7		1.7	0.60	ug/Kg	☼	09/22/17 16:27	09/26/17 07:29	1
Chloromethane	<4.3		4.3	1.7	ug/Kg	☼	09/22/17 16:27	09/26/17 07:29	1
cis-1,2-Dichloroethene	<1.7		1.7	0.48	ug/Kg	☼	09/22/17 16:27	09/26/17 07:29	1
cis-1,3-Dichloropropene	<1.7		1.7	0.52	ug/Kg	☼	09/22/17 16:27	09/26/17 07:29	1
Dibromochloromethane	<1.7		1.7	0.57	ug/Kg	☼	09/22/17 16:27	09/26/17 07:29	1
1,1-Dichloroethane	<1.7		1.7	0.59	ug/Kg	☼	09/22/17 16:27	09/26/17 07:29	1
1,2-Dichloroethane	<4.3		4.3	1.3	ug/Kg	☼	09/22/17 16:27	09/26/17 07:29	1
1,1-Dichloroethene	<1.7		1.7	0.59	ug/Kg	☼	09/22/17 16:27	09/26/17 07:29	1
1,2-Dichloropropane	<1.7		1.7	0.45	ug/Kg	☼	09/22/17 16:27	09/26/17 07:29	1
1,3-Dichloropropene, Total	<1.7		1.7	0.61	ug/Kg	☼	09/22/17 16:27	09/26/17 07:29	1
Ethylbenzene	<1.7		1.7	0.83	ug/Kg	☼	09/22/17 16:27	09/26/17 07:29	1
2-Hexanone	<4.3		4.3	1.3	ug/Kg	☼	09/22/17 16:27	09/26/17 07:29	1
Methylene Chloride	<4.3		4.3	1.7	ug/Kg	☼	09/22/17 16:27	09/26/17 07:29	1
Methyl Ethyl Ketone	<4.3		4.3	1.9	ug/Kg	☼	09/22/17 16:27	09/26/17 07:29	1
methyl isobutyl ketone	<4.3		4.3	1.3	ug/Kg	☼	09/22/17 16:27	09/26/17 07:29	1
Methyl tert-butyl ether	<1.7		1.7	0.51	ug/Kg	☼	09/22/17 16:27	09/26/17 07:29	1
Styrene	<1.7		1.7	0.52	ug/Kg	☼	09/22/17 16:27	09/26/17 07:29	1
1,1,2,2-Tetrachloroethane	<1.7		1.7	0.55	ug/Kg	☼	09/22/17 16:27	09/26/17 07:29	1
Tetrachloroethene	<1.7		1.7	0.59	ug/Kg	☼	09/22/17 16:27	09/26/17 07:29	1
Toluene	<1.7		1.7	0.44	ug/Kg	☼	09/22/17 16:27	09/26/17 07:29	1
trans-1,2-Dichloroethene	<1.7		1.7	0.77	ug/Kg	☼	09/22/17 16:27	09/26/17 07:29	1
trans-1,3-Dichloropropene	<1.7		1.7	0.61	ug/Kg	☼	09/22/17 16:27	09/26/17 07:29	1
1,1,1-Trichloroethane	<1.7		1.7	0.58	ug/Kg	☼	09/22/17 16:27	09/26/17 07:29	1
1,1,2-Trichloroethane	<1.7		1.7	0.74	ug/Kg	☼	09/22/17 16:27	09/26/17 07:29	1
Trichloroethene	<1.7		1.7	0.58	ug/Kg	☼	09/22/17 16:27	09/26/17 07:29	1
Vinyl chloride	<1.7		1.7	0.77	ug/Kg	☼	09/22/17 16:27	09/26/17 07:29	1
Xylenes, Total	<3.5		3.5	0.55	ug/Kg	☼	09/22/17 16:27	09/26/17 07:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		75 - 131	09/22/17 16:27	09/26/17 07:29	1
Dibromofluoromethane	103		75 - 126	09/22/17 16:27	09/26/17 07:29	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	09/22/17 16:27	09/26/17 07:29	1
Toluene-d8 (Surr)	94		75 - 124	09/22/17 16:27	09/26/17 07:29	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	☼	09/27/17 16:55	10/03/17 14:27	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	09/27/17 16:55	10/03/17 14:27	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	09/27/17 16:55	10/03/17 14:27	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	09/27/17 16:55	10/03/17 14:27	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	09/27/17 16:55	10/03/17 14:27	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134479-1

Client Sample ID: FH-22(10-15)-092217

Lab Sample ID: 500-134479-3

Date Collected: 09/22/17 07:48

Matrix: Solid

Date Received: 09/22/17 12:15

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	86	ug/Kg	☼	09/27/17 16:55	10/03/17 14:27	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	09/27/17 16:55	10/03/17 14:27	1
2,4-Dichlorophenol	<380		380	90	ug/Kg	☼	09/27/17 16:55	10/03/17 14:27	1
2,4-Dimethylphenol	<380		380	140	ug/Kg	☼	09/27/17 16:55	10/03/17 14:27	1
2,4-Dinitrophenol	<760	*	760	670	ug/Kg	☼	09/27/17 16:55	10/03/17 14:27	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	09/27/17 16:55	10/03/17 14:27	1
2,6-Dinitrotoluene	<190		190	74	ug/Kg	☼	09/27/17 16:55	10/03/17 14:27	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	09/27/17 16:55	10/03/17 14:27	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	09/27/17 16:55	10/03/17 14:27	1
2-Methylnaphthalene	<76		76	6.9	ug/Kg	☼	09/27/17 16:55	10/03/17 14:27	1
2-Methylphenol	<190		190	61	ug/Kg	☼	09/27/17 16:55	10/03/17 14:27	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	09/27/17 16:55	10/03/17 14:27	1
2-Nitrophenol	<380		380	89	ug/Kg	☼	09/27/17 16:55	10/03/17 14:27	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	09/27/17 16:55	10/03/17 14:27	1
3,3'-Dichlorobenzidine	<190		190	53	ug/Kg	☼	09/27/17 16:55	10/03/17 14:27	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	09/27/17 16:55	10/03/17 14:27	1
4,6-Dinitro-2-methylphenol	<760		760	300	ug/Kg	☼	09/27/17 16:55	10/03/17 14:27	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	09/27/17 16:55	10/03/17 14:27	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	09/27/17 16:55	10/03/17 14:27	1
4-Chloroaniline	<760		760	180	ug/Kg	☼	09/27/17 16:55	10/03/17 14:27	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	09/27/17 16:55	10/03/17 14:27	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	09/27/17 16:55	10/03/17 14:27	1
4-Nitrophenol	<760		760	360	ug/Kg	☼	09/27/17 16:55	10/03/17 14:27	1
Acenaphthene	28	J	38	6.8	ug/Kg	☼	09/27/17 16:55	10/03/17 14:27	1
Acenaphthylene	<38		38	5.0	ug/Kg	☼	09/27/17 16:55	10/03/17 14:27	1
Anthracene	52		38	6.3	ug/Kg	☼	09/27/17 16:55	10/03/17 14:27	1
Benzo[a]anthracene	180		38	5.1	ug/Kg	☼	09/27/17 16:55	10/03/17 14:27	1
Benzo[a]pyrene	180		38	7.3	ug/Kg	☼	09/27/17 16:55	10/03/17 14:27	1
Benzo[b]fluoranthene	260		38	8.2	ug/Kg	☼	09/27/17 16:55	10/03/17 14:27	1
Benzo[g,h,i]perylene	76		38	12	ug/Kg	☼	09/27/17 16:55	10/03/17 14:27	1
Benzo[k]fluoranthene	110		38	11	ug/Kg	☼	09/27/17 16:55	10/03/17 14:27	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	09/27/17 16:55	10/03/17 14:27	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	09/27/17 16:55	10/03/17 14:27	1
Bis(2-ethylhexyl) phthalate	<190		190	69	ug/Kg	☼	09/27/17 16:55	10/03/17 14:27	1
Butyl benzyl phthalate	<190		190	72	ug/Kg	☼	09/27/17 16:55	10/03/17 14:27	1
Carbazole	<190		190	94	ug/Kg	☼	09/27/17 16:55	10/03/17 14:27	1
Chrysene	210		38	10	ug/Kg	☼	09/27/17 16:55	10/03/17 14:27	1
Dibenz(a,h)anthracene	24	J	38	7.3	ug/Kg	☼	09/27/17 16:55	10/03/17 14:27	1
Dibenzofuran	<190		190	44	ug/Kg	☼	09/27/17 16:55	10/03/17 14:27	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	09/27/17 16:55	10/03/17 14:27	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	09/27/17 16:55	10/03/17 14:27	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	09/27/17 16:55	10/03/17 14:27	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	09/27/17 16:55	10/03/17 14:27	1
Fluoranthene	450		38	7.0	ug/Kg	☼	09/27/17 16:55	10/03/17 14:27	1
Fluorene	26	J	38	5.3	ug/Kg	☼	09/27/17 16:55	10/03/17 14:27	1
Hexachlorobenzene	<76		76	8.8	ug/Kg	☼	09/27/17 16:55	10/03/17 14:27	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	09/27/17 16:55	10/03/17 14:27	1
Hexachlorocyclopentadiene	<760		760	220	ug/Kg	☼	09/27/17 16:55	10/03/17 14:27	1
Hexachloroethane	<190		190	57	ug/Kg	☼	09/27/17 16:55	10/03/17 14:27	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134479-1

Client Sample ID: FH-22(10-15)-092217

Lab Sample ID: 500-134479-3

Date Collected: 09/22/17 07:48

Matrix: Solid

Date Received: 09/22/17 12:15

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	84		38	9.8	ug/Kg	☼	09/27/17 16:55	10/03/17 14:27	1
Isophorone	<190		190	42	ug/Kg	☼	09/27/17 16:55	10/03/17 14:27	1
Naphthalene	7.6	J	38	5.8	ug/Kg	☼	09/27/17 16:55	10/03/17 14:27	1
Nitrobenzene	<38		38	9.4	ug/Kg	☼	09/27/17 16:55	10/03/17 14:27	1
N-Nitrosodi-n-propylamine	<76		76	46	ug/Kg	☼	09/27/17 16:55	10/03/17 14:27	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	09/27/17 16:55	10/03/17 14:27	1
Pentachlorophenol	<760		760	610	ug/Kg	☼	09/27/17 16:55	10/03/17 14:27	1
Phenanthrene	290		38	5.3	ug/Kg	☼	09/27/17 16:55	10/03/17 14:27	1
Phenol	<190		190	84	ug/Kg	☼	09/27/17 16:55	10/03/17 14:27	1
Pyrene	370		38	7.5	ug/Kg	☼	09/27/17 16:55	10/03/17 14:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	38		25 - 139				09/27/17 16:55	10/03/17 14:27	1
2-Fluorobiphenyl	86		44 - 121				09/27/17 16:55	10/03/17 14:27	1
2-Fluorophenol	125		46 - 133				09/27/17 16:55	10/03/17 14:27	1
Nitrobenzene-d5	89		41 - 120				09/27/17 16:55	10/03/17 14:27	1
Phenol-d5	103		46 - 125				09/27/17 16:55	10/03/17 14:27	1
Terphenyl-d14	90		35 - 160				09/27/17 16:55	10/03/17 14:27	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/29/17 08:44	09/29/17 20:16	1
Barium	0.32	J	0.50	0.050	mg/L		09/29/17 08:44	09/29/17 20:16	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/29/17 08:44	09/29/17 20:16	1
Cadmium	0.0046	J	0.0050	0.0020	mg/L		09/29/17 08:44	09/29/17 20:16	1
Chromium	<0.025		0.025	0.010	mg/L		09/29/17 08:44	09/29/17 20:16	1
Cobalt	0.011	J	0.025	0.010	mg/L		09/29/17 08:44	09/29/17 20:16	1
Copper	<0.025		0.025	0.010	mg/L		09/29/17 08:44	09/29/17 20:16	1
Iron	0.25	J	0.40	0.20	mg/L		09/29/17 08:44	09/29/17 20:16	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/29/17 08:44	09/29/17 20:16	1
Manganese	3.1		0.025	0.010	mg/L		09/29/17 08:44	09/29/17 20:16	1
Nickel	0.025		0.025	0.010	mg/L		09/29/17 08:44	09/29/17 20:16	1
Selenium	<0.050		0.050	0.020	mg/L		09/29/17 08:44	09/29/17 20:16	1
Silver	<0.025		0.025	0.010	mg/L		09/29/17 08:44	09/29/17 20:16	1
Zinc	0.024	J ^	0.50	0.020	mg/L		09/29/17 08:44	09/29/17 20:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.014	J	0.050	0.010	mg/L		09/28/17 15:44	09/29/17 13:16	1
Barium	0.14	J B	0.50	0.050	mg/L		09/28/17 15:44	09/29/17 13:16	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/28/17 15:44	09/29/17 13:16	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/28/17 15:44	09/29/17 13:16	1
Chromium	0.046		0.025	0.010	mg/L		09/28/17 15:44	09/29/17 13:16	1
Cobalt	<0.025		0.025	0.010	mg/L		09/28/17 15:44	09/29/17 13:16	1
Copper	0.049	B	0.025	0.010	mg/L		09/28/17 15:44	09/29/17 13:16	1
Iron	43		0.40	0.20	mg/L		09/28/17 15:44	09/29/17 13:16	1
Lead	0.037		0.0075	0.0075	mg/L		09/28/17 15:44	09/29/17 13:16	1
Manganese	0.20	B	0.025	0.010	mg/L		09/28/17 15:44	09/29/17 13:16	1
Nickel	0.042		0.025	0.010	mg/L		09/28/17 15:44	09/29/17 13:16	1
Selenium	<0.050		0.050	0.020	mg/L		09/28/17 15:44	09/29/17 13:16	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134479-1

Client Sample ID: FH-22(10-15)-092217

Lab Sample ID: 500-134479-3

Date Collected: 09/22/17 07:48

Matrix: Solid

Date Received: 09/22/17 12:15

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		09/28/17 15:44	09/29/17 13:16	1
Zinc	0.10	J ^ B	0.50	0.020	mg/L		09/28/17 15:44	09/29/17 13:16	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.48	J	1.2	0.23	mg/Kg	☼	09/26/17 16:04	09/27/17 21:33	1
Arsenic	9.0		0.58	0.20	mg/Kg	☼	09/26/17 16:04	09/27/17 21:33	1
Barium	53		0.58	0.066	mg/Kg	☼	09/26/17 16:04	09/27/17 21:33	1
Beryllium	0.75		0.23	0.054	mg/Kg	☼	09/26/17 16:04	09/27/17 21:33	1
Cadmium	0.39	B	0.12	0.021	mg/Kg	☼	09/26/17 16:04	09/27/17 21:33	1
Calcium	27000	B	12	2.0	mg/Kg	☼	09/26/17 16:04	09/27/17 21:33	1
Chromium	26		0.58	0.29	mg/Kg	☼	09/26/17 16:04	09/27/17 21:33	1
Cobalt	14		0.29	0.076	mg/Kg	☼	09/26/17 16:04	09/27/17 21:33	1
Copper	27	B	0.58	0.16	mg/Kg	☼	09/26/17 16:04	09/27/17 21:33	1
Iron	19000		12	6.1	mg/Kg	☼	09/26/17 16:04	09/27/17 21:33	1
Lead	43		0.29	0.13	mg/Kg	☼	09/26/17 16:04	09/27/17 21:33	1
Magnesium	16000		5.8	2.9	mg/Kg	☼	09/26/17 16:04	09/27/17 21:33	1
Manganese	440		0.58	0.085	mg/Kg	☼	09/26/17 16:04	09/27/17 21:33	1
Nickel	32		0.58	0.17	mg/Kg	☼	09/26/17 16:04	09/27/17 21:33	1
Potassium	2200		29	10	mg/Kg	☼	09/26/17 16:04	09/27/17 21:33	1
Selenium	0.38	J	0.58	0.34	mg/Kg	☼	09/26/17 16:04	09/27/17 21:33	1
Silver	<0.29		0.29	0.075	mg/Kg	☼	09/26/17 16:04	09/27/17 21:33	1
Sodium	120		58	8.6	mg/Kg	☼	09/26/17 16:04	09/27/17 21:33	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	09/26/17 16:04	09/27/17 21:33	1
Vanadium	24		0.29	0.069	mg/Kg	☼	09/26/17 16:04	09/27/17 21:33	1
Zinc	67		1.2	0.51	mg/Kg	☼	09/26/17 16:04	09/27/17 21:33	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		09/29/17 11:25	10/02/17 08:46	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		09/28/17 13:25	09/29/17 11:37	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	37		18	6.1	ug/Kg	☼	09/29/17 07:10	09/29/17 14:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.3		0.20	0.20	SU			09/28/17 15:55	1

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134479-1

Client Sample ID: FH-22(10-15)-092217D

Lab Sample ID: 500-134479-4

Date Collected: 09/22/17 07:48

Matrix: Solid

Date Received: 09/22/17 12:15

Percent Solids: 81.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	43		18	8.0	ug/Kg	☼	09/22/17 16:27	09/26/17 07:53	1
Benzene	<1.8		1.8	0.47	ug/Kg	☼	09/22/17 16:27	09/26/17 07:53	1
Bromodichloromethane	<1.8		1.8	0.37	ug/Kg	☼	09/22/17 16:27	09/26/17 07:53	1
Bromoform	<1.8		1.8	0.54	ug/Kg	☼	09/22/17 16:27	09/26/17 07:53	1
Bromomethane	<4.6		4.6	1.7	ug/Kg	☼	09/22/17 16:27	09/26/17 07:53	1
Carbon disulfide	<4.6		4.6	0.96	ug/Kg	☼	09/22/17 16:27	09/26/17 07:53	1
Carbon tetrachloride	<1.8		1.8	0.53	ug/Kg	☼	09/22/17 16:27	09/26/17 07:53	1
Chlorobenzene	<1.8		1.8	0.68	ug/Kg	☼	09/22/17 16:27	09/26/17 07:53	1
Chloroethane	<4.6		4.6	1.4	ug/Kg	☼	09/22/17 16:27	09/26/17 07:53	1
Chloroform	<1.8		1.8	0.64	ug/Kg	☼	09/22/17 16:27	09/26/17 07:53	1
Chloromethane	<4.6		4.6	1.8	ug/Kg	☼	09/22/17 16:27	09/26/17 07:53	1
cis-1,2-Dichloroethene	<1.8		1.8	0.51	ug/Kg	☼	09/22/17 16:27	09/26/17 07:53	1
cis-1,3-Dichloropropene	<1.8		1.8	0.55	ug/Kg	☼	09/22/17 16:27	09/26/17 07:53	1
Dibromochloromethane	<1.8		1.8	0.60	ug/Kg	☼	09/22/17 16:27	09/26/17 07:53	1
1,1-Dichloroethane	<1.8		1.8	0.63	ug/Kg	☼	09/22/17 16:27	09/26/17 07:53	1
1,2-Dichloroethane	<4.6		4.6	1.4	ug/Kg	☼	09/22/17 16:27	09/26/17 07:53	1
1,1-Dichloroethene	<1.8		1.8	0.63	ug/Kg	☼	09/22/17 16:27	09/26/17 07:53	1
1,2-Dichloropropane	<1.8		1.8	0.48	ug/Kg	☼	09/22/17 16:27	09/26/17 07:53	1
1,3-Dichloropropane, Total	<1.8		1.8	0.65	ug/Kg	☼	09/22/17 16:27	09/26/17 07:53	1
Ethylbenzene	<1.8		1.8	0.88	ug/Kg	☼	09/22/17 16:27	09/26/17 07:53	1
2-Hexanone	<4.6		4.6	1.4	ug/Kg	☼	09/22/17 16:27	09/26/17 07:53	1
Methylene Chloride	<4.6		4.6	1.8	ug/Kg	☼	09/22/17 16:27	09/26/17 07:53	1
Methyl Ethyl Ketone	<4.6		4.6	2.0	ug/Kg	☼	09/22/17 16:27	09/26/17 07:53	1
methyl isobutyl ketone	<4.6		4.6	1.4	ug/Kg	☼	09/22/17 16:27	09/26/17 07:53	1
Methyl tert-butyl ether	<1.8		1.8	0.54	ug/Kg	☼	09/22/17 16:27	09/26/17 07:53	1
Styrene	<1.8		1.8	0.56	ug/Kg	☼	09/22/17 16:27	09/26/17 07:53	1
1,1,2,2-Tetrachloroethane	<1.8		1.8	0.59	ug/Kg	☼	09/22/17 16:27	09/26/17 07:53	1
Tetrachloroethene	<1.8		1.8	0.63	ug/Kg	☼	09/22/17 16:27	09/26/17 07:53	1
Toluene	<1.8		1.8	0.46	ug/Kg	☼	09/22/17 16:27	09/26/17 07:53	1
trans-1,2-Dichloroethene	<1.8		1.8	0.81	ug/Kg	☼	09/22/17 16:27	09/26/17 07:53	1
trans-1,3-Dichloropropene	<1.8		1.8	0.65	ug/Kg	☼	09/22/17 16:27	09/26/17 07:53	1
1,1,1-Trichloroethane	<1.8		1.8	0.62	ug/Kg	☼	09/22/17 16:27	09/26/17 07:53	1
1,1,2-Trichloroethane	<1.8		1.8	0.79	ug/Kg	☼	09/22/17 16:27	09/26/17 07:53	1
Trichloroethene	<1.8		1.8	0.62	ug/Kg	☼	09/22/17 16:27	09/26/17 07:53	1
Vinyl chloride	<1.8		1.8	0.81	ug/Kg	☼	09/22/17 16:27	09/26/17 07:53	1
Xylenes, Total	<3.7		3.7	0.59	ug/Kg	☼	09/22/17 16:27	09/26/17 07:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		75 - 131	09/22/17 16:27	09/26/17 07:53	1
Dibromofluoromethane	102		75 - 126	09/22/17 16:27	09/26/17 07:53	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	09/22/17 16:27	09/26/17 07:53	1
Toluene-d8 (Surr)	95		75 - 124	09/22/17 16:27	09/26/17 07:53	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	☼	09/27/17 16:55	10/03/17 14:54	1
1,2-Dichlorobenzene	<200		200	47	ug/Kg	☼	09/27/17 16:55	10/03/17 14:54	1
1,3-Dichlorobenzene	<200		200	45	ug/Kg	☼	09/27/17 16:55	10/03/17 14:54	1
1,4-Dichlorobenzene	<200		200	51	ug/Kg	☼	09/27/17 16:55	10/03/17 14:54	1
2,2'-oxybis[1-chloropropane]	<200		200	46	ug/Kg	☼	09/27/17 16:55	10/03/17 14:54	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134479-1

Client Sample ID: FH-22(10-15)-092217D

Lab Sample ID: 500-134479-4

Date Collected: 09/22/17 07:48

Matrix: Solid

Date Received: 09/22/17 12:15

Percent Solids: 81.8

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	91	ug/Kg	☼	09/27/17 16:55	10/03/17 14:54	1
2,4,6-Trichlorophenol	<390		390	140	ug/Kg	☼	09/27/17 16:55	10/03/17 14:54	1
2,4-Dichlorophenol	<390		390	94	ug/Kg	☼	09/27/17 16:55	10/03/17 14:54	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	09/27/17 16:55	10/03/17 14:54	1
2,4-Dinitrophenol	<800	*	800	700	ug/Kg	☼	09/27/17 16:55	10/03/17 14:54	1
2,4-Dinitrotoluene	<200		200	63	ug/Kg	☼	09/27/17 16:55	10/03/17 14:54	1
2,6-Dinitrotoluene	<200		200	78	ug/Kg	☼	09/27/17 16:55	10/03/17 14:54	1
2-Chloronaphthalene	<200		200	44	ug/Kg	☼	09/27/17 16:55	10/03/17 14:54	1
2-Chlorophenol	<200		200	68	ug/Kg	☼	09/27/17 16:55	10/03/17 14:54	1
2-Methylnaphthalene	<80		80	7.3	ug/Kg	☼	09/27/17 16:55	10/03/17 14:54	1
2-Methylphenol	<200		200	64	ug/Kg	☼	09/27/17 16:55	10/03/17 14:54	1
2-Nitroaniline	<200		200	53	ug/Kg	☼	09/27/17 16:55	10/03/17 14:54	1
2-Nitrophenol	<390		390	94	ug/Kg	☼	09/27/17 16:55	10/03/17 14:54	1
3 & 4 Methylphenol	<200		200	66	ug/Kg	☼	09/27/17 16:55	10/03/17 14:54	1
3,3'-Dichlorobenzidine	<200		200	56	ug/Kg	☼	09/27/17 16:55	10/03/17 14:54	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	09/27/17 16:55	10/03/17 14:54	1
4,6-Dinitro-2-methylphenol	<800		800	320	ug/Kg	☼	09/27/17 16:55	10/03/17 14:54	1
4-Bromophenyl phenyl ether	<200		200	52	ug/Kg	☼	09/27/17 16:55	10/03/17 14:54	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	09/27/17 16:55	10/03/17 14:54	1
4-Chloroaniline	<800		800	190	ug/Kg	☼	09/27/17 16:55	10/03/17 14:54	1
4-Chlorophenyl phenyl ether	<200		200	46	ug/Kg	☼	09/27/17 16:55	10/03/17 14:54	1
4-Nitroaniline	<390		390	170	ug/Kg	☼	09/27/17 16:55	10/03/17 14:54	1
4-Nitrophenol	<800		800	380	ug/Kg	☼	09/27/17 16:55	10/03/17 14:54	1
Acenaphthene	13	J	39	7.1	ug/Kg	☼	09/27/17 16:55	10/03/17 14:54	1
Acenaphthylene	<39		39	5.2	ug/Kg	☼	09/27/17 16:55	10/03/17 14:54	1
Anthracene	24	J	39	6.6	ug/Kg	☼	09/27/17 16:55	10/03/17 14:54	1
Benzo[a]anthracene	120		39	5.3	ug/Kg	☼	09/27/17 16:55	10/03/17 14:54	1
Benzo[a]pyrene	130		39	7.7	ug/Kg	☼	09/27/17 16:55	10/03/17 14:54	1
Benzo[b]fluoranthene	180		39	8.6	ug/Kg	☼	09/27/17 16:55	10/03/17 14:54	1
Benzo[g,h,i]perylene	62		39	13	ug/Kg	☼	09/27/17 16:55	10/03/17 14:54	1
Benzo[k]fluoranthene	74		39	12	ug/Kg	☼	09/27/17 16:55	10/03/17 14:54	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	☼	09/27/17 16:55	10/03/17 14:54	1
Bis(2-chloroethyl)ether	<200		200	59	ug/Kg	☼	09/27/17 16:55	10/03/17 14:54	1
Bis(2-ethylhexyl) phthalate	<200		200	73	ug/Kg	☼	09/27/17 16:55	10/03/17 14:54	1
Butyl benzyl phthalate	<200		200	75	ug/Kg	☼	09/27/17 16:55	10/03/17 14:54	1
Carbazole	<200		200	99	ug/Kg	☼	09/27/17 16:55	10/03/17 14:54	1
Chrysene	140		39	11	ug/Kg	☼	09/27/17 16:55	10/03/17 14:54	1
Dibenz(a,h)anthracene	14	J	39	7.7	ug/Kg	☼	09/27/17 16:55	10/03/17 14:54	1
Dibenzofuran	<200		200	46	ug/Kg	☼	09/27/17 16:55	10/03/17 14:54	1
Diethyl phthalate	<200		200	67	ug/Kg	☼	09/27/17 16:55	10/03/17 14:54	1
Dimethyl phthalate	<200		200	52	ug/Kg	☼	09/27/17 16:55	10/03/17 14:54	1
Di-n-butyl phthalate	<200		200	60	ug/Kg	☼	09/27/17 16:55	10/03/17 14:54	1
Di-n-octyl phthalate	<200		200	65	ug/Kg	☼	09/27/17 16:55	10/03/17 14:54	1
Fluoranthene	270		39	7.4	ug/Kg	☼	09/27/17 16:55	10/03/17 14:54	1
Fluorene	12	J	39	5.6	ug/Kg	☼	09/27/17 16:55	10/03/17 14:54	1
Hexachlorobenzene	<80		80	9.2	ug/Kg	☼	09/27/17 16:55	10/03/17 14:54	1
Hexachlorobutadiene	<200		200	62	ug/Kg	☼	09/27/17 16:55	10/03/17 14:54	1
Hexachlorocyclopentadiene	<800		800	230	ug/Kg	☼	09/27/17 16:55	10/03/17 14:54	1
Hexachloroethane	<200		200	60	ug/Kg	☼	09/27/17 16:55	10/03/17 14:54	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134479-1

Client Sample ID: FH-22(10-15)-092217D

Lab Sample ID: 500-134479-4

Date Collected: 09/22/17 07:48

Matrix: Solid

Date Received: 09/22/17 12:15

Percent Solids: 81.8

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	67		39	10	ug/Kg	☼	09/27/17 16:55	10/03/17 14:54	1
Isophorone	<200		200	45	ug/Kg	☼	09/27/17 16:55	10/03/17 14:54	1
Naphthalene	<39		39	6.1	ug/Kg	☼	09/27/17 16:55	10/03/17 14:54	1
Nitrobenzene	<39		39	9.9	ug/Kg	☼	09/27/17 16:55	10/03/17 14:54	1
N-Nitrosodi-n-propylamine	<80		80	48	ug/Kg	☼	09/27/17 16:55	10/03/17 14:54	1
N-Nitrosodiphenylamine	<200		200	47	ug/Kg	☼	09/27/17 16:55	10/03/17 14:54	1
Pentachlorophenol	<800		800	640	ug/Kg	☼	09/27/17 16:55	10/03/17 14:54	1
Phenanthrene	150		39	5.5	ug/Kg	☼	09/27/17 16:55	10/03/17 14:54	1
Phenol	<200		200	88	ug/Kg	☼	09/27/17 16:55	10/03/17 14:54	1
Pyrene	220		39	7.9	ug/Kg	☼	09/27/17 16:55	10/03/17 14:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	39		25 - 139				09/27/17 16:55	10/03/17 14:54	1
2-Fluorobiphenyl	78		44 - 121				09/27/17 16:55	10/03/17 14:54	1
2-Fluorophenol	102		46 - 133				09/27/17 16:55	10/03/17 14:54	1
Nitrobenzene-d5	76		41 - 120				09/27/17 16:55	10/03/17 14:54	1
Phenol-d5	84		46 - 125				09/27/17 16:55	10/03/17 14:54	1
Terphenyl-d14	81		35 - 160				09/27/17 16:55	10/03/17 14:54	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		09/29/17 08:44	09/29/17 20:20	1
Barium	0.33	J	0.50	0.050	mg/L		09/29/17 08:44	09/29/17 20:20	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/29/17 08:44	09/29/17 20:20	1
Cadmium	0.0042	J	0.0050	0.0020	mg/L		09/29/17 08:44	09/29/17 20:20	1
Chromium	<0.025		0.025	0.010	mg/L		09/29/17 08:44	09/29/17 20:20	1
Cobalt	0.013	J	0.025	0.010	mg/L		09/29/17 08:44	09/29/17 20:20	1
Copper	0.041		0.025	0.010	mg/L		09/29/17 08:44	09/29/17 20:20	1
Iron	<0.40		0.40	0.20	mg/L		09/29/17 08:44	09/29/17 20:20	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/29/17 08:44	09/29/17 20:20	1
Manganese	3.3		0.025	0.010	mg/L		09/29/17 08:44	09/29/17 20:20	1
Nickel	0.026		0.025	0.010	mg/L		09/29/17 08:44	09/29/17 20:20	1
Selenium	<0.050		0.050	0.020	mg/L		09/29/17 08:44	09/29/17 20:20	1
Silver	<0.025		0.025	0.010	mg/L		09/29/17 08:44	09/29/17 20:20	1
Zinc	0.039	J ^	0.50	0.020	mg/L		09/29/17 08:44	09/29/17 20:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.011	J	0.050	0.010	mg/L		09/28/17 15:44	09/29/17 13:20	1
Barium	0.12	J B	0.50	0.050	mg/L		09/28/17 15:44	09/29/17 13:20	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/28/17 15:44	09/29/17 13:20	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/28/17 15:44	09/29/17 13:20	1
Chromium	0.035		0.025	0.010	mg/L		09/28/17 15:44	09/29/17 13:20	1
Cobalt	<0.025		0.025	0.010	mg/L		09/28/17 15:44	09/29/17 13:20	1
Copper	0.042	B	0.025	0.010	mg/L		09/28/17 15:44	09/29/17 13:20	1
Iron	35		0.40	0.20	mg/L		09/28/17 15:44	09/29/17 13:20	1
Lead	0.031		0.0075	0.0075	mg/L		09/28/17 15:44	09/29/17 13:20	1
Manganese	0.15	B	0.025	0.010	mg/L		09/28/17 15:44	09/29/17 13:20	1
Nickel	0.034		0.025	0.010	mg/L		09/28/17 15:44	09/29/17 13:20	1
Selenium	<0.050		0.050	0.020	mg/L		09/28/17 15:44	09/29/17 13:20	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134479-1

Client Sample ID: FH-22(10-15)-092217D

Lab Sample ID: 500-134479-4

Date Collected: 09/22/17 07:48

Matrix: Solid

Date Received: 09/22/17 12:15

Percent Solids: 81.8

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		09/28/17 15:44	09/29/17 13:20	1
Zinc	0.080	J ^ B	0.50	0.020	mg/L		09/28/17 15:44	09/29/17 13:20	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.38	J	1.2	0.23	mg/Kg	☼	09/26/17 16:04	09/27/17 21:36	1
Arsenic	9.9		0.60	0.21	mg/Kg	☼	09/26/17 16:04	09/27/17 21:36	1
Barium	56		0.60	0.068	mg/Kg	☼	09/26/17 16:04	09/27/17 21:36	1
Beryllium	0.74		0.24	0.056	mg/Kg	☼	09/26/17 16:04	09/27/17 21:36	1
Cadmium	0.42	B	0.12	0.022	mg/Kg	☼	09/26/17 16:04	09/27/17 21:36	1
Calcium	25000	B	12	2.0	mg/Kg	☼	09/26/17 16:04	09/27/17 21:36	1
Chromium	23		0.60	0.30	mg/Kg	☼	09/26/17 16:04	09/27/17 21:36	1
Cobalt	12		0.30	0.079	mg/Kg	☼	09/26/17 16:04	09/27/17 21:36	1
Copper	27	B	0.60	0.17	mg/Kg	☼	09/26/17 16:04	09/27/17 21:36	1
Iron	18000		12	6.2	mg/Kg	☼	09/26/17 16:04	09/27/17 21:36	1
Lead	34		0.30	0.14	mg/Kg	☼	09/26/17 16:04	09/27/17 21:36	1
Magnesium	16000		6.0	3.0	mg/Kg	☼	09/26/17 16:04	09/27/17 21:36	1
Manganese	410		0.60	0.087	mg/Kg	☼	09/26/17 16:04	09/27/17 21:36	1
Nickel	30		0.60	0.17	mg/Kg	☼	09/26/17 16:04	09/27/17 21:36	1
Potassium	2000		30	11	mg/Kg	☼	09/26/17 16:04	09/27/17 21:36	1
Selenium	0.42	J	0.60	0.35	mg/Kg	☼	09/26/17 16:04	09/27/17 21:36	1
Silver	<0.30		0.30	0.077	mg/Kg	☼	09/26/17 16:04	09/27/17 21:36	1
Sodium	110		60	8.9	mg/Kg	☼	09/26/17 16:04	09/27/17 21:36	1
Thallium	<0.60		0.60	0.30	mg/Kg	☼	09/26/17 16:04	09/27/17 21:36	1
Vanadium	23		0.30	0.071	mg/Kg	☼	09/26/17 16:04	09/27/17 21:36	1
Zinc	67		1.2	0.53	mg/Kg	☼	09/26/17 16:04	09/27/17 21:36	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		09/29/17 11:25	10/02/17 08:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		09/28/17 13:25	09/29/17 11:39	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	45		19	6.2	ug/Kg	☼	09/29/17 07:10	09/29/17 14:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.2		0.20	0.20	SU			09/28/17 15:57	1

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134479-1

Client Sample ID: FH-22(15-20)-092217

Lab Sample ID: 500-134479-5

Date Collected: 09/22/17 07:57

Matrix: Solid

Date Received: 09/22/17 12:15

Percent Solids: 82.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	70		19	8.1	ug/Kg	☼	09/22/17 16:27	09/26/17 08:19	1
Benzene	<1.9		1.9	0.48	ug/Kg	☼	09/22/17 16:27	09/26/17 08:19	1
Bromodichloromethane	<1.9		1.9	0.38	ug/Kg	☼	09/22/17 16:27	09/26/17 08:19	1
Bromoform	<1.9		1.9	0.54	ug/Kg	☼	09/22/17 16:27	09/26/17 08:19	1
Bromomethane	<4.7		4.7	1.8	ug/Kg	☼	09/22/17 16:27	09/26/17 08:19	1
Carbon disulfide	<4.7		4.7	0.97	ug/Kg	☼	09/22/17 16:27	09/26/17 08:19	1
Carbon tetrachloride	<1.9		1.9	0.54	ug/Kg	☼	09/22/17 16:27	09/26/17 08:19	1
Chlorobenzene	<1.9		1.9	0.69	ug/Kg	☼	09/22/17 16:27	09/26/17 08:19	1
Chloroethane	<4.7		4.7	1.4	ug/Kg	☼	09/22/17 16:27	09/26/17 08:19	1
Chloroform	<1.9		1.9	0.65	ug/Kg	☼	09/22/17 16:27	09/26/17 08:19	1
Chloromethane	<4.7		4.7	1.9	ug/Kg	☼	09/22/17 16:27	09/26/17 08:19	1
cis-1,2-Dichloroethene	<1.9		1.9	0.52	ug/Kg	☼	09/22/17 16:27	09/26/17 08:19	1
cis-1,3-Dichloropropene	<1.9		1.9	0.56	ug/Kg	☼	09/22/17 16:27	09/26/17 08:19	1
Dibromochloromethane	<1.9		1.9	0.61	ug/Kg	☼	09/22/17 16:27	09/26/17 08:19	1
1,1-Dichloroethane	<1.9		1.9	0.64	ug/Kg	☼	09/22/17 16:27	09/26/17 08:19	1
1,2-Dichloroethane	<4.7		4.7	1.5	ug/Kg	☼	09/22/17 16:27	09/26/17 08:19	1
1,1-Dichloroethene	<1.9		1.9	0.64	ug/Kg	☼	09/22/17 16:27	09/26/17 08:19	1
1,2-Dichloropropane	<1.9		1.9	0.48	ug/Kg	☼	09/22/17 16:27	09/26/17 08:19	1
1,3-Dichloropropene, Total	<1.9		1.9	0.65	ug/Kg	☼	09/22/17 16:27	09/26/17 08:19	1
Ethylbenzene	<1.9		1.9	0.89	ug/Kg	☼	09/22/17 16:27	09/26/17 08:19	1
2-Hexanone	<4.7		4.7	1.5	ug/Kg	☼	09/22/17 16:27	09/26/17 08:19	1
Methylene Chloride	<4.7		4.7	1.8	ug/Kg	☼	09/22/17 16:27	09/26/17 08:19	1
Methyl Ethyl Ketone	9.4		4.7	2.1	ug/Kg	☼	09/22/17 16:27	09/26/17 08:19	1
methyl isobutyl ketone	<4.7		4.7	1.4	ug/Kg	☼	09/22/17 16:27	09/26/17 08:19	1
Methyl tert-butyl ether	<1.9		1.9	0.55	ug/Kg	☼	09/22/17 16:27	09/26/17 08:19	1
Styrene	<1.9		1.9	0.56	ug/Kg	☼	09/22/17 16:27	09/26/17 08:19	1
1,1,2,2-Tetrachloroethane	<1.9		1.9	0.60	ug/Kg	☼	09/22/17 16:27	09/26/17 08:19	1
Tetrachloroethene	<1.9		1.9	0.64	ug/Kg	☼	09/22/17 16:27	09/26/17 08:19	1
Toluene	<1.9		1.9	0.47	ug/Kg	☼	09/22/17 16:27	09/26/17 08:19	1
trans-1,2-Dichloroethene	<1.9		1.9	0.83	ug/Kg	☼	09/22/17 16:27	09/26/17 08:19	1
trans-1,3-Dichloropropene	<1.9		1.9	0.65	ug/Kg	☼	09/22/17 16:27	09/26/17 08:19	1
1,1,1-Trichloroethane	<1.9		1.9	0.63	ug/Kg	☼	09/22/17 16:27	09/26/17 08:19	1
1,1,2-Trichloroethane	<1.9		1.9	0.80	ug/Kg	☼	09/22/17 16:27	09/26/17 08:19	1
Trichloroethene	<1.9		1.9	0.63	ug/Kg	☼	09/22/17 16:27	09/26/17 08:19	1
Vinyl chloride	<1.9		1.9	0.83	ug/Kg	☼	09/22/17 16:27	09/26/17 08:19	1
Xylenes, Total	<3.7		3.7	0.60	ug/Kg	☼	09/22/17 16:27	09/26/17 08:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		75 - 131	09/22/17 16:27	09/26/17 08:19	1
Dibromofluoromethane	101		75 - 126	09/22/17 16:27	09/26/17 08:19	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	09/22/17 16:27	09/26/17 08:19	1
Toluene-d8 (Surr)	115		75 - 124	09/22/17 16:27	09/26/17 08:19	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	☼	09/27/17 16:55	10/03/17 15:20	1
1,2-Dichlorobenzene	<200		200	48	ug/Kg	☼	09/27/17 16:55	10/03/17 15:20	1
1,3-Dichlorobenzene	<200		200	45	ug/Kg	☼	09/27/17 16:55	10/03/17 15:20	1
1,4-Dichlorobenzene	<200		200	51	ug/Kg	☼	09/27/17 16:55	10/03/17 15:20	1
2,2'-oxybis[1-chloropropane]	<200		200	46	ug/Kg	☼	09/27/17 16:55	10/03/17 15:20	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134479-1

Client Sample ID: FH-22(15-20)-092217

Lab Sample ID: 500-134479-5

Date Collected: 09/22/17 07:57

Matrix: Solid

Date Received: 09/22/17 12:15

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	<400		400	91	ug/Kg	☼	09/27/17 16:55	10/03/17 15:20	1
2,4,6-Trichlorophenol	<400		400	140	ug/Kg	☼	09/27/17 16:55	10/03/17 15:20	1
2,4-Dichlorophenol	<400		400	95	ug/Kg	☼	09/27/17 16:55	10/03/17 15:20	1
2,4-Dimethylphenol	<400		400	150	ug/Kg	☼	09/27/17 16:55	10/03/17 15:20	1
2,4-Dinitrophenol	<800	*	800	700	ug/Kg	☼	09/27/17 16:55	10/03/17 15:20	1
2,4-Dinitrotoluene	<200		200	63	ug/Kg	☼	09/27/17 16:55	10/03/17 15:20	1
2,6-Dinitrotoluene	<200		200	78	ug/Kg	☼	09/27/17 16:55	10/03/17 15:20	1
2-Chloronaphthalene	<200		200	44	ug/Kg	☼	09/27/17 16:55	10/03/17 15:20	1
2-Chlorophenol	<200		200	68	ug/Kg	☼	09/27/17 16:55	10/03/17 15:20	1
2-Methylnaphthalene	11	J	80	7.3	ug/Kg	☼	09/27/17 16:55	10/03/17 15:20	1
2-Methylphenol	<200		200	64	ug/Kg	☼	09/27/17 16:55	10/03/17 15:20	1
2-Nitroaniline	<200		200	54	ug/Kg	☼	09/27/17 16:55	10/03/17 15:20	1
2-Nitrophenol	<400		400	94	ug/Kg	☼	09/27/17 16:55	10/03/17 15:20	1
3 & 4 Methylphenol	<200		200	66	ug/Kg	☼	09/27/17 16:55	10/03/17 15:20	1
3,3'-Dichlorobenzidine	<200		200	56	ug/Kg	☼	09/27/17 16:55	10/03/17 15:20	1
3-Nitroaniline	<400		400	120	ug/Kg	☼	09/27/17 16:55	10/03/17 15:20	1
4,6-Dinitro-2-methylphenol	<800		800	320	ug/Kg	☼	09/27/17 16:55	10/03/17 15:20	1
4-Bromophenyl phenyl ether	<200		200	52	ug/Kg	☼	09/27/17 16:55	10/03/17 15:20	1
4-Chloro-3-methylphenol	<400		400	140	ug/Kg	☼	09/27/17 16:55	10/03/17 15:20	1
4-Chloroaniline	<800		800	190	ug/Kg	☼	09/27/17 16:55	10/03/17 15:20	1
4-Chlorophenyl phenyl ether	<200		200	46	ug/Kg	☼	09/27/17 16:55	10/03/17 15:20	1
4-Nitroaniline	<400		400	170	ug/Kg	☼	09/27/17 16:55	10/03/17 15:20	1
4-Nitrophenol	<800		800	380	ug/Kg	☼	09/27/17 16:55	10/03/17 15:20	1
Acenaphthene	9.6	J	40	7.2	ug/Kg	☼	09/27/17 16:55	10/03/17 15:20	1
Acenaphthylene	6.1	J	40	5.2	ug/Kg	☼	09/27/17 16:55	10/03/17 15:20	1
Anthracene	34	J	40	6.7	ug/Kg	☼	09/27/17 16:55	10/03/17 15:20	1
Benzo[a]anthracene	160		40	5.4	ug/Kg	☼	09/27/17 16:55	10/03/17 15:20	1
Benzo[a]pyrene	180		40	7.7	ug/Kg	☼	09/27/17 16:55	10/03/17 15:20	1
Benzo[b]fluoranthene	260		40	8.6	ug/Kg	☼	09/27/17 16:55	10/03/17 15:20	1
Benzo[g,h,i]perylene	67		40	13	ug/Kg	☼	09/27/17 16:55	10/03/17 15:20	1
Benzo[k]fluoranthene	91		40	12	ug/Kg	☼	09/27/17 16:55	10/03/17 15:20	1
Bis(2-chloroethoxy)methane	<200		200	41	ug/Kg	☼	09/27/17 16:55	10/03/17 15:20	1
Bis(2-chloroethyl)ether	<200		200	60	ug/Kg	☼	09/27/17 16:55	10/03/17 15:20	1
Bis(2-ethylhexyl) phthalate	<200		200	73	ug/Kg	☼	09/27/17 16:55	10/03/17 15:20	1
Butyl benzyl phthalate	<200		200	76	ug/Kg	☼	09/27/17 16:55	10/03/17 15:20	1
Carbazole	<200		200	99	ug/Kg	☼	09/27/17 16:55	10/03/17 15:20	1
Chrysene	200		40	11	ug/Kg	☼	09/27/17 16:55	10/03/17 15:20	1
Dibenz(a,h)anthracene	16	J	40	7.7	ug/Kg	☼	09/27/17 16:55	10/03/17 15:20	1
Dibenzofuran	<200		200	47	ug/Kg	☼	09/27/17 16:55	10/03/17 15:20	1
Diethyl phthalate	<200		200	67	ug/Kg	☼	09/27/17 16:55	10/03/17 15:20	1
Dimethyl phthalate	<200		200	52	ug/Kg	☼	09/27/17 16:55	10/03/17 15:20	1
Di-n-butyl phthalate	<200		200	61	ug/Kg	☼	09/27/17 16:55	10/03/17 15:20	1
Di-n-octyl phthalate	<200		200	65	ug/Kg	☼	09/27/17 16:55	10/03/17 15:20	1
Fluoranthene	420		40	7.4	ug/Kg	☼	09/27/17 16:55	10/03/17 15:20	1
Fluorene	9.4	J	40	5.6	ug/Kg	☼	09/27/17 16:55	10/03/17 15:20	1
Hexachlorobenzene	<80		80	9.2	ug/Kg	☼	09/27/17 16:55	10/03/17 15:20	1
Hexachlorobutadiene	<200		200	63	ug/Kg	☼	09/27/17 16:55	10/03/17 15:20	1
Hexachlorocyclopentadiene	<800		800	230	ug/Kg	☼	09/27/17 16:55	10/03/17 15:20	1
Hexachloroethane	<200		200	61	ug/Kg	☼	09/27/17 16:55	10/03/17 15:20	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134479-1

Client Sample ID: FH-22(15-20)-092217

Lab Sample ID: 500-134479-5

Date Collected: 09/22/17 07:57

Matrix: Solid

Date Received: 09/22/17 12:15

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	73		40	10	ug/Kg	☼	09/27/17 16:55	10/03/17 15:20	1
Isophorone	<200		200	45	ug/Kg	☼	09/27/17 16:55	10/03/17 15:20	1
Naphthalene	9.8	J	40	6.1	ug/Kg	☼	09/27/17 16:55	10/03/17 15:20	1
Nitrobenzene	<40		40	9.9	ug/Kg	☼	09/27/17 16:55	10/03/17 15:20	1
N-Nitrosodi-n-propylamine	<80		80	49	ug/Kg	☼	09/27/17 16:55	10/03/17 15:20	1
N-Nitrosodiphenylamine	<200		200	47	ug/Kg	☼	09/27/17 16:55	10/03/17 15:20	1
Pentachlorophenol	<800		800	640	ug/Kg	☼	09/27/17 16:55	10/03/17 15:20	1
Phenanthrene	180		40	5.5	ug/Kg	☼	09/27/17 16:55	10/03/17 15:20	1
Phenol	<200		200	88	ug/Kg	☼	09/27/17 16:55	10/03/17 15:20	1
Pyrene	340		40	7.9	ug/Kg	☼	09/27/17 16:55	10/03/17 15:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	77		25 - 139				09/27/17 16:55	10/03/17 15:20	1
2-Fluorobiphenyl	93		44 - 121				09/27/17 16:55	10/03/17 15:20	1
2-Fluorophenol	118		46 - 133				09/27/17 16:55	10/03/17 15:20	1
Nitrobenzene-d5	90		41 - 120				09/27/17 16:55	10/03/17 15:20	1
Phenol-d5	100		46 - 125				09/27/17 16:55	10/03/17 15:20	1
Terphenyl-d14	100		35 - 160				09/27/17 16:55	10/03/17 15:20	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.015	J	0.050	0.010	mg/L		09/29/17 08:44	09/29/17 20:24	1
Barium	0.38	J	0.50	0.050	mg/L		09/29/17 08:44	09/29/17 20:24	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/29/17 08:44	09/29/17 20:24	1
Cadmium	0.0030	J	0.0050	0.0020	mg/L		09/29/17 08:44	09/29/17 20:24	1
Chromium	<0.025		0.025	0.010	mg/L		09/29/17 08:44	09/29/17 20:24	1
Cobalt	0.022	J	0.025	0.010	mg/L		09/29/17 08:44	09/29/17 20:24	1
Copper	<0.025		0.025	0.010	mg/L		09/29/17 08:44	09/29/17 20:24	1
Iron	<0.40		0.40	0.20	mg/L		09/29/17 08:44	09/29/17 20:24	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/29/17 08:44	09/29/17 20:24	1
Manganese	6.4		0.025	0.010	mg/L		09/29/17 08:44	09/29/17 20:24	1
Nickel	0.025		0.025	0.010	mg/L		09/29/17 08:44	09/29/17 20:24	1
Selenium	<0.050		0.050	0.020	mg/L		09/29/17 08:44	09/29/17 20:24	1
Silver	<0.025		0.025	0.010	mg/L		09/29/17 08:44	09/29/17 20:24	1
Zinc	0.038	J ^	0.50	0.020	mg/L		09/29/17 08:44	09/29/17 20:24	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		09/28/17 15:44	09/29/17 13:24	1
Barium	0.13	J B	0.50	0.050	mg/L		09/28/17 15:44	09/29/17 13:24	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/28/17 15:44	09/29/17 13:24	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/28/17 15:44	09/29/17 13:24	1
Chromium	0.013	J	0.025	0.010	mg/L		09/28/17 15:44	09/29/17 13:24	1
Cobalt	<0.025		0.025	0.010	mg/L		09/28/17 15:44	09/29/17 13:24	1
Copper	0.025	B	0.025	0.010	mg/L		09/28/17 15:44	09/29/17 13:24	1
Iron	11		0.40	0.20	mg/L		09/28/17 15:44	09/29/17 13:24	1
Lead	0.011		0.0075	0.0075	mg/L		09/28/17 15:44	09/29/17 13:24	1
Manganese	0.10	B	0.025	0.010	mg/L		09/28/17 15:44	09/29/17 13:24	1
Nickel	0.012	J	0.025	0.010	mg/L		09/28/17 15:44	09/29/17 13:24	1
Selenium	<0.050		0.050	0.020	mg/L		09/28/17 15:44	09/29/17 13:24	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134479-1

Client Sample ID: FH-22(15-20)-092217

Lab Sample ID: 500-134479-5

Date Collected: 09/22/17 07:57

Matrix: Solid

Date Received: 09/22/17 12:15

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		09/28/17 15:44	09/29/17 13:24	1
Zinc	0.080	J ^ B	0.50	0.020	mg/L		09/28/17 15:44	09/29/17 13:24	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.47	J	1.2	0.23	mg/Kg	☼	09/26/17 16:04	09/27/17 21:40	1
Arsenic	9.0		0.59	0.20	mg/Kg	☼	09/26/17 16:04	09/27/17 21:40	1
Barium	54		0.59	0.067	mg/Kg	☼	09/26/17 16:04	09/27/17 21:40	1
Beryllium	0.73		0.23	0.055	mg/Kg	☼	09/26/17 16:04	09/27/17 21:40	1
Cadmium	0.23	B	0.12	0.021	mg/Kg	☼	09/26/17 16:04	09/27/17 21:40	1
Calcium	28000	B	12	2.0	mg/Kg	☼	09/26/17 16:04	09/27/17 21:40	1
Chromium	18		0.59	0.29	mg/Kg	☼	09/26/17 16:04	09/27/17 21:40	1
Cobalt	12		0.29	0.077	mg/Kg	☼	09/26/17 16:04	09/27/17 21:40	1
Copper	28	B	0.59	0.16	mg/Kg	☼	09/26/17 16:04	09/27/17 21:40	1
Iron	20000		12	6.1	mg/Kg	☼	09/26/17 16:04	09/27/17 21:40	1
Lead	35		0.29	0.14	mg/Kg	☼	09/26/17 16:04	09/27/17 21:40	1
Magnesium	17000		5.9	2.9	mg/Kg	☼	09/26/17 16:04	09/27/17 21:40	1
Manganese	410		0.59	0.085	mg/Kg	☼	09/26/17 16:04	09/27/17 21:40	1
Nickel	31		0.59	0.17	mg/Kg	☼	09/26/17 16:04	09/27/17 21:40	1
Potassium	1900		29	10	mg/Kg	☼	09/26/17 16:04	09/27/17 21:40	1
Selenium	<0.59		0.59	0.35	mg/Kg	☼	09/26/17 16:04	09/27/17 21:40	1
Silver	<0.29		0.29	0.076	mg/Kg	☼	09/26/17 16:04	09/27/17 21:40	1
Sodium	99		59	8.7	mg/Kg	☼	09/26/17 16:04	09/27/17 21:40	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	09/26/17 16:04	09/27/17 21:40	1
Vanadium	23		0.29	0.069	mg/Kg	☼	09/26/17 16:04	09/27/17 21:40	1
Zinc	67		1.2	0.52	mg/Kg	☼	09/26/17 16:04	09/27/17 21:40	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		09/29/17 11:25	10/02/17 08:56	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		09/28/17 13:25	09/29/17 11:41	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	50		20	6.6	ug/Kg	☼	09/29/17 07:10	09/29/17 14:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.2		0.20	0.20	SU			09/28/17 15:59	1

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134479-1

Client Sample ID: FH-27(0-5)-092217

Lab Sample ID: 500-134479-6

Date Collected: 09/22/17 08:13

Matrix: Solid

Date Received: 09/22/17 12:15

Percent Solids: 85.8

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	☼	09/22/17 16:27	09/26/17 08:44	1
Benzene	<1.5		1.5	0.39	ug/Kg	☼	09/22/17 16:27	09/26/17 08:44	1
Bromodichloromethane	<1.5		1.5	0.31	ug/Kg	☼	09/22/17 16:27	09/26/17 08:44	1
Bromoform	<1.5		1.5	0.45	ug/Kg	☼	09/22/17 16:27	09/26/17 08:44	1
Bromomethane	<3.8		3.8	1.4	ug/Kg	☼	09/22/17 16:27	09/26/17 08:44	1
Carbon disulfide	<3.8		3.8	0.80	ug/Kg	☼	09/22/17 16:27	09/26/17 08:44	1
Carbon tetrachloride	<1.5		1.5	0.44	ug/Kg	☼	09/22/17 16:27	09/26/17 08:44	1
Chlorobenzene	<1.5		1.5	0.57	ug/Kg	☼	09/22/17 16:27	09/26/17 08:44	1
Chloroethane	<3.8		3.8	1.1	ug/Kg	☼	09/22/17 16:27	09/26/17 08:44	1
Chloroform	<1.5		1.5	0.53	ug/Kg	☼	09/22/17 16:27	09/26/17 08:44	1
Chloromethane	<3.8		3.8	1.5	ug/Kg	☼	09/22/17 16:27	09/26/17 08:44	1
cis-1,2-Dichloroethene	<1.5		1.5	0.43	ug/Kg	☼	09/22/17 16:27	09/26/17 08:44	1
cis-1,3-Dichloropropene	<1.5		1.5	0.46	ug/Kg	☼	09/22/17 16:27	09/26/17 08:44	1
Dibromochloromethane	<1.5		1.5	0.50	ug/Kg	☼	09/22/17 16:27	09/26/17 08:44	1
1,1-Dichloroethane	<1.5		1.5	0.53	ug/Kg	☼	09/22/17 16:27	09/26/17 08:44	1
1,2-Dichloroethane	<3.8		3.8	1.2	ug/Kg	☼	09/22/17 16:27	09/26/17 08:44	1
1,1-Dichloroethene	<1.5		1.5	0.53	ug/Kg	☼	09/22/17 16:27	09/26/17 08:44	1
1,2-Dichloropropane	<1.5		1.5	0.40	ug/Kg	☼	09/22/17 16:27	09/26/17 08:44	1
1,3-Dichloropropane, Total	<1.5		1.5	0.54	ug/Kg	☼	09/22/17 16:27	09/26/17 08:44	1
Ethylbenzene	<1.5		1.5	0.73	ug/Kg	☼	09/22/17 16:27	09/26/17 08:44	1
2-Hexanone	<3.8		3.8	1.2	ug/Kg	☼	09/22/17 16:27	09/26/17 08:44	1
Methylene Chloride	<3.8		3.8	1.5	ug/Kg	☼	09/22/17 16:27	09/26/17 08:44	1
Methyl Ethyl Ketone	<3.8		3.8	1.7	ug/Kg	☼	09/22/17 16:27	09/26/17 08:44	1
methyl isobutyl ketone	<3.8		3.8	1.1	ug/Kg	☼	09/22/17 16:27	09/26/17 08:44	1
Methyl tert-butyl ether	<1.5		1.5	0.45	ug/Kg	☼	09/22/17 16:27	09/26/17 08:44	1
Styrene	<1.5		1.5	0.46	ug/Kg	☼	09/22/17 16:27	09/26/17 08:44	1
1,1,2,2-Tetrachloroethane	<1.5		1.5	0.49	ug/Kg	☼	09/22/17 16:27	09/26/17 08:44	1
Tetrachloroethene	<1.5		1.5	0.52	ug/Kg	☼	09/22/17 16:27	09/26/17 08:44	1
Toluene	<1.5		1.5	0.39	ug/Kg	☼	09/22/17 16:27	09/26/17 08:44	1
trans-1,2-Dichloroethene	<1.5		1.5	0.68	ug/Kg	☼	09/22/17 16:27	09/26/17 08:44	1
trans-1,3-Dichloropropene	<1.5		1.5	0.54	ug/Kg	☼	09/22/17 16:27	09/26/17 08:44	1
1,1,1-Trichloroethane	<1.5		1.5	0.51	ug/Kg	☼	09/22/17 16:27	09/26/17 08:44	1
1,1,2-Trichloroethane	<1.5		1.5	0.66	ug/Kg	☼	09/22/17 16:27	09/26/17 08:44	1
Trichloroethene	<1.5		1.5	0.52	ug/Kg	☼	09/22/17 16:27	09/26/17 08:44	1
Vinyl chloride	<1.5		1.5	0.68	ug/Kg	☼	09/22/17 16:27	09/26/17 08:44	1
Xylenes, Total	<3.1		3.1	0.49	ug/Kg	☼	09/22/17 16:27	09/26/17 08:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		75 - 131	09/22/17 16:27	09/26/17 08:44	1
Dibromofluoromethane	102		75 - 126	09/22/17 16:27	09/26/17 08:44	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	09/22/17 16:27	09/26/17 08:44	1
Toluene-d8 (Surr)	95		75 - 124	09/22/17 16:27	09/26/17 08:44	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	40	ug/Kg	☼	09/27/17 16:55	10/03/17 15:47	1
1,2-Dichlorobenzene	<190		190	44	ug/Kg	☼	09/27/17 16:55	10/03/17 15:47	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	09/27/17 16:55	10/03/17 15:47	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	09/27/17 16:55	10/03/17 15:47	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	09/27/17 16:55	10/03/17 15:47	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134479-1

Client Sample ID: FH-27(0-5)-092217

Lab Sample ID: 500-134479-6

Date Collected: 09/22/17 08:13

Matrix: Solid

Date Received: 09/22/17 12:15

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	☼	09/27/17 16:55	10/03/17 15:47	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	09/27/17 16:55	10/03/17 15:47	1
2,4-Dichlorophenol	<370		370	88	ug/Kg	☼	09/27/17 16:55	10/03/17 15:47	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	09/27/17 16:55	10/03/17 15:47	1
2,4-Dinitrophenol	<750	*	750	650	ug/Kg	☼	09/27/17 16:55	10/03/17 15:47	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	09/27/17 16:55	10/03/17 15:47	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	09/27/17 16:55	10/03/17 15:47	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	09/27/17 16:55	10/03/17 15:47	1
2-Chlorophenol	<190		190	63	ug/Kg	☼	09/27/17 16:55	10/03/17 15:47	1
2-Methylnaphthalene	<75		75	6.8	ug/Kg	☼	09/27/17 16:55	10/03/17 15:47	1
2-Methylphenol	<190		190	59	ug/Kg	☼	09/27/17 16:55	10/03/17 15:47	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	09/27/17 16:55	10/03/17 15:47	1
2-Nitrophenol	<370		370	88	ug/Kg	☼	09/27/17 16:55	10/03/17 15:47	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	09/27/17 16:55	10/03/17 15:47	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	09/27/17 16:55	10/03/17 15:47	1
3-Nitroaniline	<370		370	110	ug/Kg	☼	09/27/17 16:55	10/03/17 15:47	1
4,6-Dinitro-2-methylphenol	<750		750	300	ug/Kg	☼	09/27/17 16:55	10/03/17 15:47	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	09/27/17 16:55	10/03/17 15:47	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	09/27/17 16:55	10/03/17 15:47	1
4-Chloroaniline	<750		750	170	ug/Kg	☼	09/27/17 16:55	10/03/17 15:47	1
4-Chlorophenyl phenyl ether	<190		190	43	ug/Kg	☼	09/27/17 16:55	10/03/17 15:47	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	09/27/17 16:55	10/03/17 15:47	1
4-Nitrophenol	<750		750	350	ug/Kg	☼	09/27/17 16:55	10/03/17 15:47	1
Acenaphthene	7.3	J	37	6.7	ug/Kg	☼	09/27/17 16:55	10/03/17 15:47	1
Acenaphthylene	8.7	J	37	4.9	ug/Kg	☼	09/27/17 16:55	10/03/17 15:47	1
Anthracene	23	J	37	6.2	ug/Kg	☼	09/27/17 16:55	10/03/17 15:47	1
Benzo[a]anthracene	100		37	5.0	ug/Kg	☼	09/27/17 16:55	10/03/17 15:47	1
Benzo[a]pyrene	110		37	7.2	ug/Kg	☼	09/27/17 16:55	10/03/17 15:47	1
Benzo[b]fluoranthene	160		37	8.0	ug/Kg	☼	09/27/17 16:55	10/03/17 15:47	1
Benzo[g,h,i]perylene	46		37	12	ug/Kg	☼	09/27/17 16:55	10/03/17 15:47	1
Benzo[k]fluoranthene	57		37	11	ug/Kg	☼	09/27/17 16:55	10/03/17 15:47	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	09/27/17 16:55	10/03/17 15:47	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	09/27/17 16:55	10/03/17 15:47	1
Bis(2-ethylhexyl) phthalate	<190		190	68	ug/Kg	☼	09/27/17 16:55	10/03/17 15:47	1
Butyl benzyl phthalate	<190		190	70	ug/Kg	☼	09/27/17 16:55	10/03/17 15:47	1
Carbazole	<190		190	93	ug/Kg	☼	09/27/17 16:55	10/03/17 15:47	1
Chrysene	120		37	10	ug/Kg	☼	09/27/17 16:55	10/03/17 15:47	1
Dibenz(a,h)anthracene	<37		37	7.2	ug/Kg	☼	09/27/17 16:55	10/03/17 15:47	1
Dibenzofuran	<190		190	43	ug/Kg	☼	09/27/17 16:55	10/03/17 15:47	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	09/27/17 16:55	10/03/17 15:47	1
Dimethyl phthalate	<190		190	48	ug/Kg	☼	09/27/17 16:55	10/03/17 15:47	1
Di-n-butyl phthalate	<190		190	56	ug/Kg	☼	09/27/17 16:55	10/03/17 15:47	1
Di-n-octyl phthalate	<190		190	60	ug/Kg	☼	09/27/17 16:55	10/03/17 15:47	1
Fluoranthene	250		37	6.9	ug/Kg	☼	09/27/17 16:55	10/03/17 15:47	1
Fluorene	8.3	J	37	5.2	ug/Kg	☼	09/27/17 16:55	10/03/17 15:47	1
Hexachlorobenzene	<75		75	8.6	ug/Kg	☼	09/27/17 16:55	10/03/17 15:47	1
Hexachlorobutadiene	<190		190	58	ug/Kg	☼	09/27/17 16:55	10/03/17 15:47	1
Hexachlorocyclopentadiene	<750		750	210	ug/Kg	☼	09/27/17 16:55	10/03/17 15:47	1
Hexachloroethane	<190		190	56	ug/Kg	☼	09/27/17 16:55	10/03/17 15:47	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134479-1

Client Sample ID: FH-27(0-5)-092217

Lab Sample ID: 500-134479-6

Date Collected: 09/22/17 08:13

Matrix: Solid

Date Received: 09/22/17 12:15

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	47		37	9.6	ug/Kg	☼	09/27/17 16:55	10/03/17 15:47	1
Isophorone	<190		190	42	ug/Kg	☼	09/27/17 16:55	10/03/17 15:47	1
Naphthalene	<37		37	5.7	ug/Kg	☼	09/27/17 16:55	10/03/17 15:47	1
Nitrobenzene	<37		37	9.2	ug/Kg	☼	09/27/17 16:55	10/03/17 15:47	1
N-Nitrosodi-n-propylamine	<75		75	45	ug/Kg	☼	09/27/17 16:55	10/03/17 15:47	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	09/27/17 16:55	10/03/17 15:47	1
Pentachlorophenol	<750		750	590	ug/Kg	☼	09/27/17 16:55	10/03/17 15:47	1
Phenanthrene	110		37	5.2	ug/Kg	☼	09/27/17 16:55	10/03/17 15:47	1
Phenol	<190		190	82	ug/Kg	☼	09/27/17 16:55	10/03/17 15:47	1
Pyrene	200		37	7.4	ug/Kg	☼	09/27/17 16:55	10/03/17 15:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	84		25 - 139				09/27/17 16:55	10/03/17 15:47	1
2-Fluorobiphenyl	102		44 - 121				09/27/17 16:55	10/03/17 15:47	1
2-Fluorophenol	116		46 - 133				09/27/17 16:55	10/03/17 15:47	1
Nitrobenzene-d5	88		41 - 120				09/27/17 16:55	10/03/17 15:47	1
Phenol-d5	101		46 - 125				09/27/17 16:55	10/03/17 15:47	1
Terphenyl-d14	98		35 - 160				09/27/17 16:55	10/03/17 15:47	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/29/17 08:44	09/29/17 20:29	1
Barium	0.33	J	0.50	0.050	mg/L		09/29/17 08:44	09/29/17 20:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/29/17 08:44	09/29/17 20:29	1
Cadmium	0.0025	J	0.0050	0.0020	mg/L		09/29/17 08:44	09/29/17 20:29	1
Chromium	<0.025		0.025	0.010	mg/L		09/29/17 08:44	09/29/17 20:29	1
Cobalt	<0.025		0.025	0.010	mg/L		09/29/17 08:44	09/29/17 20:29	1
Copper	<0.025		0.025	0.010	mg/L		09/29/17 08:44	09/29/17 20:29	1
Iron	0.23	J	0.40	0.20	mg/L		09/29/17 08:44	09/29/17 20:29	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/29/17 08:44	09/29/17 20:29	1
Manganese	0.32		0.025	0.010	mg/L		09/29/17 08:44	09/29/17 20:29	1
Nickel	<0.025		0.025	0.010	mg/L		09/29/17 08:44	09/29/17 20:29	1
Selenium	<0.050		0.050	0.020	mg/L		09/29/17 08:44	09/29/17 20:29	1
Silver	<0.025		0.025	0.010	mg/L		09/29/17 08:44	09/29/17 20:29	1
Zinc	<0.50	^	0.50	0.020	mg/L		09/29/17 08:44	09/29/17 20:29	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		09/28/17 15:44	09/29/17 13:28	1
Barium	0.12	J B	0.50	0.050	mg/L		09/28/17 15:44	09/29/17 13:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/28/17 15:44	09/29/17 13:28	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/28/17 15:44	09/29/17 13:28	1
Chromium	<0.025		0.025	0.010	mg/L		09/28/17 15:44	09/29/17 13:28	1
Cobalt	<0.025		0.025	0.010	mg/L		09/28/17 15:44	09/29/17 13:28	1
Copper	0.018	J B	0.025	0.010	mg/L		09/28/17 15:44	09/29/17 13:28	1
Iron	4.6		0.40	0.20	mg/L		09/28/17 15:44	09/29/17 13:28	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/28/17 15:44	09/29/17 13:28	1
Manganese	0.027	B	0.025	0.010	mg/L		09/28/17 15:44	09/29/17 13:28	1
Nickel	<0.025		0.025	0.010	mg/L		09/28/17 15:44	09/29/17 13:28	1
Selenium	<0.050		0.050	0.020	mg/L		09/28/17 15:44	09/29/17 13:28	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134479-1

Client Sample ID: FH-27(0-5)-092217

Lab Sample ID: 500-134479-6

Date Collected: 09/22/17 08:13

Matrix: Solid

Date Received: 09/22/17 12:15

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		09/28/17 15:44	09/29/17 13:28	1
Zinc	0.072	J ^ B	0.50	0.020	mg/L		09/28/17 15:44	09/29/17 13:28	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.23	J	1.1	0.22	mg/Kg	☼	09/26/17 16:04	09/27/17 21:44	1
Arsenic	9.8		0.55	0.19	mg/Kg	☼	09/26/17 16:04	09/27/17 21:44	1
Barium	51		0.55	0.063	mg/Kg	☼	09/26/17 16:04	09/27/17 21:44	1
Beryllium	0.74		0.22	0.052	mg/Kg	☼	09/26/17 16:04	09/27/17 21:44	1
Cadmium	0.15	B	0.11	0.020	mg/Kg	☼	09/26/17 16:04	09/27/17 21:44	1
Calcium	19000	B	11	1.9	mg/Kg	☼	09/26/17 16:04	09/27/17 21:44	1
Chromium	16		0.55	0.27	mg/Kg	☼	09/26/17 16:04	09/27/17 21:44	1
Cobalt	15		0.28	0.073	mg/Kg	☼	09/26/17 16:04	09/27/17 21:44	1
Copper	30	B	0.55	0.16	mg/Kg	☼	09/26/17 16:04	09/27/17 21:44	1
Iron	22000		11	5.8	mg/Kg	☼	09/26/17 16:04	09/27/17 21:44	1
Lead	21		0.28	0.13	mg/Kg	☼	09/26/17 16:04	09/27/17 21:44	1
Magnesium	14000		5.5	2.8	mg/Kg	☼	09/26/17 16:04	09/27/17 21:44	1
Manganese	420		0.55	0.080	mg/Kg	☼	09/26/17 16:04	09/27/17 21:44	1
Nickel	35		0.55	0.16	mg/Kg	☼	09/26/17 16:04	09/27/17 21:44	1
Potassium	1200		28	9.8	mg/Kg	☼	09/26/17 16:04	09/27/17 21:44	1
Selenium	0.38	J	0.55	0.33	mg/Kg	☼	09/26/17 16:04	09/27/17 21:44	1
Silver	<0.28		0.28	0.072	mg/Kg	☼	09/26/17 16:04	09/27/17 21:44	1
Sodium	65		55	8.2	mg/Kg	☼	09/26/17 16:04	09/27/17 21:44	1
Thallium	<0.55		0.55	0.28	mg/Kg	☼	09/26/17 16:04	09/27/17 21:44	1
Vanadium	19		0.28	0.065	mg/Kg	☼	09/26/17 16:04	09/27/17 21:44	1
Zinc	73		1.1	0.49	mg/Kg	☼	09/26/17 16:04	09/27/17 21:44	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		09/29/17 11:25	10/02/17 08:58	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		09/28/17 13:25	09/29/17 11:43	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	39		19	6.3	ug/Kg	☼	09/29/17 07:10	09/29/17 14:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.2		0.20	0.20	SU			09/28/17 16:02	1

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134479-1

Client Sample ID: FH-27(5-10)-092217

Lab Sample ID: 500-134479-7

Date Collected: 09/22/17 08:29

Matrix: Solid

Date Received: 09/22/17 12:15

Percent Solids: 81.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	29		17	7.6	ug/Kg	☼	09/22/17 16:27	09/26/17 11:59	1
Benzene	<1.7		1.7	0.44	ug/Kg	☼	09/22/17 16:27	09/26/17 11:59	1
Bromodichloromethane	<1.7		1.7	0.35	ug/Kg	☼	09/22/17 16:27	09/26/17 11:59	1
Bromoform	<1.7		1.7	0.51	ug/Kg	☼	09/22/17 16:27	09/26/17 11:59	1
Bromomethane	<4.3		4.3	1.6	ug/Kg	☼	09/22/17 16:27	09/26/17 11:59	1
Carbon disulfide	<4.3		4.3	0.90	ug/Kg	☼	09/22/17 16:27	09/26/17 11:59	1
Carbon tetrachloride	<1.7		1.7	0.50	ug/Kg	☼	09/22/17 16:27	09/26/17 11:59	1
Chlorobenzene	<1.7		1.7	0.64	ug/Kg	☼	09/22/17 16:27	09/26/17 11:59	1
Chloroethane	<4.3		4.3	1.3	ug/Kg	☼	09/22/17 16:27	09/26/17 11:59	1
Chloroform	<1.7		1.7	0.60	ug/Kg	☼	09/22/17 16:27	09/26/17 11:59	1
Chloromethane	<4.3		4.3	1.7	ug/Kg	☼	09/22/17 16:27	09/26/17 11:59	1
cis-1,2-Dichloroethene	<1.7		1.7	0.49	ug/Kg	☼	09/22/17 16:27	09/26/17 11:59	1
cis-1,3-Dichloropropene	<1.7		1.7	0.52	ug/Kg	☼	09/22/17 16:27	09/26/17 11:59	1
Dibromochloromethane	<1.7		1.7	0.57	ug/Kg	☼	09/22/17 16:27	09/26/17 11:59	1
1,1-Dichloroethane	<1.7		1.7	0.60	ug/Kg	☼	09/22/17 16:27	09/26/17 11:59	1
1,2-Dichloroethane	<4.3		4.3	1.4	ug/Kg	☼	09/22/17 16:27	09/26/17 11:59	1
1,1-Dichloroethene	<1.7		1.7	0.60	ug/Kg	☼	09/22/17 16:27	09/26/17 11:59	1
1,2-Dichloropropane	<1.7		1.7	0.45	ug/Kg	☼	09/22/17 16:27	09/26/17 11:59	1
1,3-Dichloropropene, Total	<1.7		1.7	0.61	ug/Kg	☼	09/22/17 16:27	09/26/17 11:59	1
Ethylbenzene	<1.7		1.7	0.83	ug/Kg	☼	09/22/17 16:27	09/26/17 11:59	1
2-Hexanone	<4.3		4.3	1.4	ug/Kg	☼	09/22/17 16:27	09/26/17 11:59	1
Methylene Chloride	<4.3		4.3	1.7	ug/Kg	☼	09/22/17 16:27	09/26/17 11:59	1
Methyl Ethyl Ketone	<4.3		4.3	1.9	ug/Kg	☼	09/22/17 16:27	09/26/17 11:59	1
methyl isobutyl ketone	<4.3		4.3	1.3	ug/Kg	☼	09/22/17 16:27	09/26/17 11:59	1
Methyl tert-butyl ether	<1.7		1.7	0.51	ug/Kg	☼	09/22/17 16:27	09/26/17 11:59	1
Styrene	<1.7		1.7	0.53	ug/Kg	☼	09/22/17 16:27	09/26/17 11:59	1
1,1,2,2-Tetrachloroethane	<1.7		1.7	0.56	ug/Kg	☼	09/22/17 16:27	09/26/17 11:59	1
Tetrachloroethene	<1.7		1.7	0.59	ug/Kg	☼	09/22/17 16:27	09/26/17 11:59	1
Toluene	<1.7		1.7	0.44	ug/Kg	☼	09/22/17 16:27	09/26/17 11:59	1
trans-1,2-Dichloroethene	<1.7		1.7	0.77	ug/Kg	☼	09/22/17 16:27	09/26/17 11:59	1
trans-1,3-Dichloropropene	<1.7		1.7	0.61	ug/Kg	☼	09/22/17 16:27	09/26/17 11:59	1
1,1,1-Trichloroethane	<1.7		1.7	0.58	ug/Kg	☼	09/22/17 16:27	09/26/17 11:59	1
1,1,2-Trichloroethane	<1.7		1.7	0.75	ug/Kg	☼	09/22/17 16:27	09/26/17 11:59	1
Trichloroethene	<1.7		1.7	0.59	ug/Kg	☼	09/22/17 16:27	09/26/17 11:59	1
Vinyl chloride	<1.7		1.7	0.77	ug/Kg	☼	09/22/17 16:27	09/26/17 11:59	1
Xylenes, Total	<3.5		3.5	0.56	ug/Kg	☼	09/22/17 16:27	09/26/17 11:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		75 - 131	09/22/17 16:27	09/26/17 11:59	1
Dibromofluoromethane	106		75 - 126	09/22/17 16:27	09/26/17 11:59	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	09/22/17 16:27	09/26/17 11:59	1
Toluene-d8 (Surr)	97		75 - 124	09/22/17 16:27	09/26/17 11:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<200		200	43	ug/Kg	☼	09/27/17 16:55	10/03/17 16:14	1
1,2-Dichlorobenzene	<200		200	48	ug/Kg	☼	09/27/17 16:55	10/03/17 16:14	1
1,3-Dichlorobenzene	<200		200	45	ug/Kg	☼	09/27/17 16:55	10/03/17 16:14	1
1,4-Dichlorobenzene	<200		200	51	ug/Kg	☼	09/27/17 16:55	10/03/17 16:14	1
2,2'-oxybis[1-chloropropane]	<200		200	46	ug/Kg	☼	09/27/17 16:55	10/03/17 16:14	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134479-1

Client Sample ID: FH-27(5-10)-092217

Lab Sample ID: 500-134479-7

Date Collected: 09/22/17 08:29

Matrix: Solid

Date Received: 09/22/17 12:15

Percent Solids: 81.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<400		400	91	ug/Kg	☼	09/27/17 16:55	10/03/17 16:14	1
2,4,6-Trichlorophenol	<400		400	140	ug/Kg	☼	09/27/17 16:55	10/03/17 16:14	1
2,4-Dichlorophenol	<400		400	95	ug/Kg	☼	09/27/17 16:55	10/03/17 16:14	1
2,4-Dimethylphenol	<400		400	150	ug/Kg	☼	09/27/17 16:55	10/03/17 16:14	1
2,4-Dinitrophenol	<810	*	810	700	ug/Kg	☼	09/27/17 16:55	10/03/17 16:14	1
2,4-Dinitrotoluene	<200		200	63	ug/Kg	☼	09/27/17 16:55	10/03/17 16:14	1
2,6-Dinitrotoluene	<200		200	79	ug/Kg	☼	09/27/17 16:55	10/03/17 16:14	1
2-Chloronaphthalene	<200		200	44	ug/Kg	☼	09/27/17 16:55	10/03/17 16:14	1
2-Chlorophenol	<200		200	68	ug/Kg	☼	09/27/17 16:55	10/03/17 16:14	1
2-Methylnaphthalene	<81		81	7.3	ug/Kg	☼	09/27/17 16:55	10/03/17 16:14	1
2-Methylphenol	<200		200	64	ug/Kg	☼	09/27/17 16:55	10/03/17 16:14	1
2-Nitroaniline	<200		200	54	ug/Kg	☼	09/27/17 16:55	10/03/17 16:14	1
2-Nitrophenol	<400		400	94	ug/Kg	☼	09/27/17 16:55	10/03/17 16:14	1
3 & 4 Methylphenol	<200		200	67	ug/Kg	☼	09/27/17 16:55	10/03/17 16:14	1
3,3'-Dichlorobenzidine	<200		200	56	ug/Kg	☼	09/27/17 16:55	10/03/17 16:14	1
3-Nitroaniline	<400		400	120	ug/Kg	☼	09/27/17 16:55	10/03/17 16:14	1
4,6-Dinitro-2-methylphenol	<810		810	320	ug/Kg	☼	09/27/17 16:55	10/03/17 16:14	1
4-Bromophenyl phenyl ether	<200		200	53	ug/Kg	☼	09/27/17 16:55	10/03/17 16:14	1
4-Chloro-3-methylphenol	<400		400	140	ug/Kg	☼	09/27/17 16:55	10/03/17 16:14	1
4-Chloroaniline	<810		810	190	ug/Kg	☼	09/27/17 16:55	10/03/17 16:14	1
4-Chlorophenyl phenyl ether	<200		200	47	ug/Kg	☼	09/27/17 16:55	10/03/17 16:14	1
4-Nitroaniline	<400		400	170	ug/Kg	☼	09/27/17 16:55	10/03/17 16:14	1
4-Nitrophenol	<810		810	380	ug/Kg	☼	09/27/17 16:55	10/03/17 16:14	1
Acenaphthene	<40		40	7.2	ug/Kg	☼	09/27/17 16:55	10/03/17 16:14	1
Acenaphthylene	6.0	J	40	5.3	ug/Kg	☼	09/27/17 16:55	10/03/17 16:14	1
Anthracene	17	J	40	6.7	ug/Kg	☼	09/27/17 16:55	10/03/17 16:14	1
Benzo[a]anthracene	100		40	5.4	ug/Kg	☼	09/27/17 16:55	10/03/17 16:14	1
Benzo[a]pyrene	120		40	7.7	ug/Kg	☼	09/27/17 16:55	10/03/17 16:14	1
Benzo[b]fluoranthene	170		40	8.6	ug/Kg	☼	09/27/17 16:55	10/03/17 16:14	1
Benzo[g,h,i]perylene	51		40	13	ug/Kg	☼	09/27/17 16:55	10/03/17 16:14	1
Benzo[k]fluoranthene	46		40	12	ug/Kg	☼	09/27/17 16:55	10/03/17 16:14	1
Bis(2-chloroethoxy)methane	<200		200	41	ug/Kg	☼	09/27/17 16:55	10/03/17 16:14	1
Bis(2-chloroethyl)ether	<200		200	60	ug/Kg	☼	09/27/17 16:55	10/03/17 16:14	1
Bis(2-ethylhexyl) phthalate	<200		200	73	ug/Kg	☼	09/27/17 16:55	10/03/17 16:14	1
Butyl benzyl phthalate	<200		200	76	ug/Kg	☼	09/27/17 16:55	10/03/17 16:14	1
Carbazole	<200		200	100	ug/Kg	☼	09/27/17 16:55	10/03/17 16:14	1
Chrysene	130		40	11	ug/Kg	☼	09/27/17 16:55	10/03/17 16:14	1
Dibenz(a,h)anthracene	<40		40	7.7	ug/Kg	☼	09/27/17 16:55	10/03/17 16:14	1
Dibenzofuran	<200		200	47	ug/Kg	☼	09/27/17 16:55	10/03/17 16:14	1
Diethyl phthalate	<200		200	68	ug/Kg	☼	09/27/17 16:55	10/03/17 16:14	1
Dimethyl phthalate	<200		200	52	ug/Kg	☼	09/27/17 16:55	10/03/17 16:14	1
Di-n-butyl phthalate	<200		200	61	ug/Kg	☼	09/27/17 16:55	10/03/17 16:14	1
Di-n-octyl phthalate	<200		200	65	ug/Kg	☼	09/27/17 16:55	10/03/17 16:14	1
Fluoranthene	210		40	7.4	ug/Kg	☼	09/27/17 16:55	10/03/17 16:14	1
Fluorene	<40		40	5.6	ug/Kg	☼	09/27/17 16:55	10/03/17 16:14	1
Hexachlorobenzene	<81		81	9.3	ug/Kg	☼	09/27/17 16:55	10/03/17 16:14	1
Hexachlorobutadiene	<200		200	63	ug/Kg	☼	09/27/17 16:55	10/03/17 16:14	1
Hexachlorocyclopentadiene	<810		810	230	ug/Kg	☼	09/27/17 16:55	10/03/17 16:14	1
Hexachloroethane	<200		200	61	ug/Kg	☼	09/27/17 16:55	10/03/17 16:14	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134479-1

Client Sample ID: FH-27(5-10)-092217

Lab Sample ID: 500-134479-7

Date Collected: 09/22/17 08:29

Matrix: Solid

Date Received: 09/22/17 12:15

Percent Solids: 81.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	44		40	10	ug/Kg	☼	09/27/17 16:55	10/03/17 16:14	1
Isophorone	<200		200	45	ug/Kg	☼	09/27/17 16:55	10/03/17 16:14	1
Naphthalene	<40		40	6.1	ug/Kg	☼	09/27/17 16:55	10/03/17 16:14	1
Nitrobenzene	<40		40	10	ug/Kg	☼	09/27/17 16:55	10/03/17 16:14	1
N-Nitrosodi-n-propylamine	<81		81	49	ug/Kg	☼	09/27/17 16:55	10/03/17 16:14	1
N-Nitrosodiphenylamine	<200		200	47	ug/Kg	☼	09/27/17 16:55	10/03/17 16:14	1
Pentachlorophenol	<810		810	640	ug/Kg	☼	09/27/17 16:55	10/03/17 16:14	1
Phenanthrene	93		40	5.6	ug/Kg	☼	09/27/17 16:55	10/03/17 16:14	1
Phenol	<200		200	89	ug/Kg	☼	09/27/17 16:55	10/03/17 16:14	1
Pyrene	220		40	7.9	ug/Kg	☼	09/27/17 16:55	10/03/17 16:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	66		25 - 139				09/27/17 16:55	10/03/17 16:14	1
2-Fluorobiphenyl	82		44 - 121				09/27/17 16:55	10/03/17 16:14	1
2-Fluorophenol	103		46 - 133				09/27/17 16:55	10/03/17 16:14	1
Nitrobenzene-d5	74		41 - 120				09/27/17 16:55	10/03/17 16:14	1
Phenol-d5	88		46 - 125				09/27/17 16:55	10/03/17 16:14	1
Terphenyl-d14	102		35 - 160				09/27/17 16:55	10/03/17 16:14	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		09/29/17 08:44	09/29/17 20:41	1
Barium	0.38	J	0.50	0.050	mg/L		09/29/17 08:44	09/29/17 20:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/29/17 08:44	09/29/17 20:41	1
Cadmium	0.0032	J	0.0050	0.0020	mg/L		09/29/17 08:44	09/29/17 20:41	1
Chromium	<0.025		0.025	0.010	mg/L		09/29/17 08:44	09/29/17 20:41	1
Cobalt	<0.025		0.025	0.010	mg/L		09/29/17 08:44	09/29/17 20:41	1
Copper	0.017	J	0.025	0.010	mg/L		09/29/17 08:44	09/29/17 20:41	1
Iron	0.25	J	0.40	0.20	mg/L		09/29/17 08:44	09/29/17 20:41	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/29/17 08:44	09/29/17 20:41	1
Manganese	2.8		0.025	0.010	mg/L		09/29/17 08:44	09/29/17 20:41	1
Nickel	0.021	J	0.025	0.010	mg/L		09/29/17 08:44	09/29/17 20:41	1
Selenium	<0.050		0.050	0.020	mg/L		09/29/17 08:44	09/29/17 20:41	1
Silver	<0.025		0.025	0.010	mg/L		09/29/17 08:44	09/29/17 20:41	1
Zinc	0.068	J ^	0.50	0.020	mg/L		09/29/17 08:44	09/29/17 20:41	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		09/28/17 15:44	09/29/17 13:32	1
Barium	0.13	J B	0.50	0.050	mg/L		09/28/17 15:44	09/29/17 13:32	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/28/17 15:44	09/29/17 13:32	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/28/17 15:44	09/29/17 13:32	1
Chromium	0.011	J	0.025	0.010	mg/L		09/28/17 15:44	09/29/17 13:32	1
Cobalt	<0.025		0.025	0.010	mg/L		09/28/17 15:44	09/29/17 13:32	1
Copper	0.031	B	0.025	0.010	mg/L		09/28/17 15:44	09/29/17 13:32	1
Iron	7.8		0.40	0.20	mg/L		09/28/17 15:44	09/29/17 13:32	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/28/17 15:44	09/29/17 13:32	1
Manganese	0.050	B	0.025	0.010	mg/L		09/28/17 15:44	09/29/17 13:32	1
Nickel	<0.025		0.025	0.010	mg/L		09/28/17 15:44	09/29/17 13:32	1
Selenium	<0.050		0.050	0.020	mg/L		09/28/17 15:44	09/29/17 13:32	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134479-1

Client Sample ID: FH-27(5-10)-092217

Lab Sample ID: 500-134479-7

Date Collected: 09/22/17 08:29

Matrix: Solid

Date Received: 09/22/17 12:15

Percent Solids: 81.4

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		09/28/17 15:44	09/29/17 13:32	1
Zinc	0.099	J ^ B	0.50	0.020	mg/L		09/28/17 15:44	09/29/17 13:32	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.29	J	1.2	0.23	mg/Kg	☼	09/26/17 16:04	09/27/17 21:48	1
Arsenic	10		0.60	0.21	mg/Kg	☼	09/26/17 16:04	09/27/17 21:48	1
Barium	77		0.60	0.069	mg/Kg	☼	09/26/17 16:04	09/27/17 21:48	1
Beryllium	0.60		0.24	0.056	mg/Kg	☼	09/26/17 16:04	09/27/17 21:48	1
Cadmium	0.36	B	0.12	0.022	mg/Kg	☼	09/26/17 16:04	09/27/17 21:48	1
Calcium	22000	B	12	2.0	mg/Kg	☼	09/26/17 16:04	09/27/17 21:48	1
Chromium	13		0.60	0.30	mg/Kg	☼	09/26/17 16:04	09/27/17 21:48	1
Cobalt	18		0.30	0.079	mg/Kg	☼	09/26/17 16:04	09/27/17 21:48	1
Copper	27	B	0.60	0.17	mg/Kg	☼	09/26/17 16:04	09/27/17 21:48	1
Iron	19000		12	6.3	mg/Kg	☼	09/26/17 16:04	09/27/17 21:48	1
Lead	34		0.30	0.14	mg/Kg	☼	09/26/17 16:04	09/27/17 21:48	1
Magnesium	14000		6.0	3.0	mg/Kg	☼	09/26/17 16:04	09/27/17 21:48	1
Manganese	870		0.60	0.087	mg/Kg	☼	09/26/17 16:04	09/27/17 21:48	1
Nickel	36		0.60	0.18	mg/Kg	☼	09/26/17 16:04	09/27/17 21:48	1
Potassium	900		30	11	mg/Kg	☼	09/26/17 16:04	09/27/17 21:48	1
Selenium	0.39	J	0.60	0.35	mg/Kg	☼	09/26/17 16:04	09/27/17 21:48	1
Silver	<0.30		0.30	0.078	mg/Kg	☼	09/26/17 16:04	09/27/17 21:48	1
Sodium	78		60	8.9	mg/Kg	☼	09/26/17 16:04	09/27/17 21:48	1
Thallium	<0.60		0.60	0.30	mg/Kg	☼	09/26/17 16:04	09/27/17 21:48	1
Vanadium	18		0.30	0.071	mg/Kg	☼	09/26/17 16:04	09/27/17 21:48	1
Zinc	63		1.2	0.53	mg/Kg	☼	09/26/17 16:04	09/27/17 21:48	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		09/29/17 11:25	10/02/17 09:00	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		09/28/17 13:25	09/29/17 11:45	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	55		19	6.4	ug/Kg	☼	09/29/17 07:10	09/29/17 14:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.2		0.20	0.20	SU			09/28/17 16:04	1

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134479-1

Client Sample ID: FH-27(10-15)-092217

Lab Sample ID: 500-134479-8

Date Collected: 09/22/17 08:35

Matrix: Solid

Date Received: 09/22/17 12:15

Percent Solids: 81.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	32		19	8.2	ug/Kg	☼	09/22/17 16:27	09/26/17 12:24	1
Benzene	<1.9		1.9	0.48	ug/Kg	☼	09/22/17 16:27	09/26/17 12:24	1
Bromodichloromethane	<1.9		1.9	0.38	ug/Kg	☼	09/22/17 16:27	09/26/17 12:24	1
Bromoform	<1.9		1.9	0.55	ug/Kg	☼	09/22/17 16:27	09/26/17 12:24	1
Bromomethane	<4.7		4.7	1.8	ug/Kg	☼	09/22/17 16:27	09/26/17 12:24	1
Carbon disulfide	<4.7		4.7	0.98	ug/Kg	☼	09/22/17 16:27	09/26/17 12:24	1
Carbon tetrachloride	<1.9		1.9	0.55	ug/Kg	☼	09/22/17 16:27	09/26/17 12:24	1
Chlorobenzene	<1.9		1.9	0.69	ug/Kg	☼	09/22/17 16:27	09/26/17 12:24	1
Chloroethane	<4.7		4.7	1.4	ug/Kg	☼	09/22/17 16:27	09/26/17 12:24	1
Chloroform	<1.9		1.9	0.65	ug/Kg	☼	09/22/17 16:27	09/26/17 12:24	1
Chloromethane	<4.7		4.7	1.9	ug/Kg	☼	09/22/17 16:27	09/26/17 12:24	1
cis-1,2-Dichloroethene	<1.9		1.9	0.53	ug/Kg	☼	09/22/17 16:27	09/26/17 12:24	1
cis-1,3-Dichloropropene	<1.9		1.9	0.57	ug/Kg	☼	09/22/17 16:27	09/26/17 12:24	1
Dibromochloromethane	<1.9		1.9	0.61	ug/Kg	☼	09/22/17 16:27	09/26/17 12:24	1
1,1-Dichloroethane	<1.9		1.9	0.64	ug/Kg	☼	09/22/17 16:27	09/26/17 12:24	1
1,2-Dichloroethane	<4.7		4.7	1.5	ug/Kg	☼	09/22/17 16:27	09/26/17 12:24	1
1,1-Dichloroethene	<1.9		1.9	0.65	ug/Kg	☼	09/22/17 16:27	09/26/17 12:24	1
1,2-Dichloropropane	<1.9		1.9	0.49	ug/Kg	☼	09/22/17 16:27	09/26/17 12:24	1
1,3-Dichloropropane, Total	<1.9		1.9	0.66	ug/Kg	☼	09/22/17 16:27	09/26/17 12:24	1
Ethylbenzene	<1.9		1.9	0.90	ug/Kg	☼	09/22/17 16:27	09/26/17 12:24	1
2-Hexanone	<4.7		4.7	1.5	ug/Kg	☼	09/22/17 16:27	09/26/17 12:24	1
Methylene Chloride	<4.7		4.7	1.9	ug/Kg	☼	09/22/17 16:27	09/26/17 12:24	1
Methyl Ethyl Ketone	<4.7		4.7	2.1	ug/Kg	☼	09/22/17 16:27	09/26/17 12:24	1
methyl isobutyl ketone	<4.7		4.7	1.4	ug/Kg	☼	09/22/17 16:27	09/26/17 12:24	1
Methyl tert-butyl ether	<1.9		1.9	0.55	ug/Kg	☼	09/22/17 16:27	09/26/17 12:24	1
Styrene	<1.9		1.9	0.57	ug/Kg	☼	09/22/17 16:27	09/26/17 12:24	1
1,1,2,2-Tetrachloroethane	<1.9		1.9	0.60	ug/Kg	☼	09/22/17 16:27	09/26/17 12:24	1
Tetrachloroethene	<1.9		1.9	0.64	ug/Kg	☼	09/22/17 16:27	09/26/17 12:24	1
Toluene	<1.9		1.9	0.47	ug/Kg	☼	09/22/17 16:27	09/26/17 12:24	1
trans-1,2-Dichloroethene	<1.9		1.9	0.83	ug/Kg	☼	09/22/17 16:27	09/26/17 12:24	1
trans-1,3-Dichloropropene	<1.9		1.9	0.66	ug/Kg	☼	09/22/17 16:27	09/26/17 12:24	1
1,1,1-Trichloroethane	<1.9		1.9	0.63	ug/Kg	☼	09/22/17 16:27	09/26/17 12:24	1
1,1,2-Trichloroethane	<1.9		1.9	0.81	ug/Kg	☼	09/22/17 16:27	09/26/17 12:24	1
Trichloroethene	<1.9		1.9	0.64	ug/Kg	☼	09/22/17 16:27	09/26/17 12:24	1
Vinyl chloride	<1.9		1.9	0.83	ug/Kg	☼	09/22/17 16:27	09/26/17 12:24	1
Xylenes, Total	<3.8		3.8	0.60	ug/Kg	☼	09/22/17 16:27	09/26/17 12:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		75 - 131	09/22/17 16:27	09/26/17 12:24	1
Dibromofluoromethane	108		75 - 126	09/22/17 16:27	09/26/17 12:24	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134	09/22/17 16:27	09/26/17 12:24	1
Toluene-d8 (Surr)	95		75 - 124	09/22/17 16:27	09/26/17 12:24	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	☼	09/27/17 16:55	10/03/17 16:40	1
1,2-Dichlorobenzene	<200		200	47	ug/Kg	☼	09/27/17 16:55	10/03/17 16:40	1
1,3-Dichlorobenzene	<200		200	44	ug/Kg	☼	09/27/17 16:55	10/03/17 16:40	1
1,4-Dichlorobenzene	<200		200	51	ug/Kg	☼	09/27/17 16:55	10/03/17 16:40	1
2,2'-oxybis[1-chloropropane]	<200		200	46	ug/Kg	☼	09/27/17 16:55	10/03/17 16:40	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134479-1

Client Sample ID: FH-27(10-15)-092217

Lab Sample ID: 500-134479-8

Date Collected: 09/22/17 08:35

Matrix: Solid

Date Received: 09/22/17 12:15

Percent Solids: 81.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<390		390	90	ug/Kg	☼	09/27/17 16:55	10/03/17 16:40	1
2,4,6-Trichlorophenol	<390		390	140	ug/Kg	☼	09/27/17 16:55	10/03/17 16:40	1
2,4-Dichlorophenol	<390		390	94	ug/Kg	☼	09/27/17 16:55	10/03/17 16:40	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	09/27/17 16:55	10/03/17 16:40	1
2,4-Dinitrophenol	<790	*	790	690	ug/Kg	☼	09/27/17 16:55	10/03/17 16:40	1
2,4-Dinitrotoluene	<200		200	63	ug/Kg	☼	09/27/17 16:55	10/03/17 16:40	1
2,6-Dinitrotoluene	<200		200	77	ug/Kg	☼	09/27/17 16:55	10/03/17 16:40	1
2-Chloronaphthalene	<200		200	44	ug/Kg	☼	09/27/17 16:55	10/03/17 16:40	1
2-Chlorophenol	<200		200	67	ug/Kg	☼	09/27/17 16:55	10/03/17 16:40	1
2-Methylnaphthalene	<79		79	7.2	ug/Kg	☼	09/27/17 16:55	10/03/17 16:40	1
2-Methylphenol	<200		200	63	ug/Kg	☼	09/27/17 16:55	10/03/17 16:40	1
2-Nitroaniline	<200		200	53	ug/Kg	☼	09/27/17 16:55	10/03/17 16:40	1
2-Nitrophenol	<390		390	93	ug/Kg	☼	09/27/17 16:55	10/03/17 16:40	1
3 & 4 Methylphenol	<200		200	66	ug/Kg	☼	09/27/17 16:55	10/03/17 16:40	1
3,3'-Dichlorobenzidine	<200		200	55	ug/Kg	☼	09/27/17 16:55	10/03/17 16:40	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	09/27/17 16:55	10/03/17 16:40	1
4,6-Dinitro-2-methylphenol	<790		790	320	ug/Kg	☼	09/27/17 16:55	10/03/17 16:40	1
4-Bromophenyl phenyl ether	<200		200	52	ug/Kg	☼	09/27/17 16:55	10/03/17 16:40	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	09/27/17 16:55	10/03/17 16:40	1
4-Chloroaniline	<790		790	190	ug/Kg	☼	09/27/17 16:55	10/03/17 16:40	1
4-Chlorophenyl phenyl ether	<200		200	46	ug/Kg	☼	09/27/17 16:55	10/03/17 16:40	1
4-Nitroaniline	<390		390	160	ug/Kg	☼	09/27/17 16:55	10/03/17 16:40	1
4-Nitrophenol	<790		790	370	ug/Kg	☼	09/27/17 16:55	10/03/17 16:40	1
Acenaphthene	<39		39	7.1	ug/Kg	☼	09/27/17 16:55	10/03/17 16:40	1
Acenaphthylene	<39		39	5.2	ug/Kg	☼	09/27/17 16:55	10/03/17 16:40	1
Anthracene	7.8	J	39	6.6	ug/Kg	☼	09/27/17 16:55	10/03/17 16:40	1
Benzo[a]anthracene	42		39	5.3	ug/Kg	☼	09/27/17 16:55	10/03/17 16:40	1
Benzo[a]pyrene	51		39	7.6	ug/Kg	☼	09/27/17 16:55	10/03/17 16:40	1
Benzo[b]fluoranthene	76		39	8.5	ug/Kg	☼	09/27/17 16:55	10/03/17 16:40	1
Benzo[g,h,i]perylene	27	J	39	13	ug/Kg	☼	09/27/17 16:55	10/03/17 16:40	1
Benzo[k]fluoranthene	32	J	39	12	ug/Kg	☼	09/27/17 16:55	10/03/17 16:40	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	☼	09/27/17 16:55	10/03/17 16:40	1
Bis(2-chloroethyl)ether	<200		200	59	ug/Kg	☼	09/27/17 16:55	10/03/17 16:40	1
Bis(2-ethylhexyl) phthalate	<200		200	72	ug/Kg	☼	09/27/17 16:55	10/03/17 16:40	1
Butyl benzyl phthalate	<200		200	75	ug/Kg	☼	09/27/17 16:55	10/03/17 16:40	1
Carbazole	<200		200	98	ug/Kg	☼	09/27/17 16:55	10/03/17 16:40	1
Chrysene	54		39	11	ug/Kg	☼	09/27/17 16:55	10/03/17 16:40	1
Dibenz(a,h)anthracene	<39		39	7.6	ug/Kg	☼	09/27/17 16:55	10/03/17 16:40	1
Dibenzofuran	<200		200	46	ug/Kg	☼	09/27/17 16:55	10/03/17 16:40	1
Diethyl phthalate	<200		200	67	ug/Kg	☼	09/27/17 16:55	10/03/17 16:40	1
Dimethyl phthalate	<200		200	51	ug/Kg	☼	09/27/17 16:55	10/03/17 16:40	1
Di-n-butyl phthalate	<200		200	60	ug/Kg	☼	09/27/17 16:55	10/03/17 16:40	1
Di-n-octyl phthalate	<200		200	64	ug/Kg	☼	09/27/17 16:55	10/03/17 16:40	1
Fluoranthene	85		39	7.3	ug/Kg	☼	09/27/17 16:55	10/03/17 16:40	1
Fluorene	<39		39	5.5	ug/Kg	☼	09/27/17 16:55	10/03/17 16:40	1
Hexachlorobenzene	<79		79	9.1	ug/Kg	☼	09/27/17 16:55	10/03/17 16:40	1
Hexachlorobutadiene	<200		200	62	ug/Kg	☼	09/27/17 16:55	10/03/17 16:40	1
Hexachlorocyclopentadiene	<790		790	230	ug/Kg	☼	09/27/17 16:55	10/03/17 16:40	1
Hexachloroethane	<200		200	60	ug/Kg	☼	09/27/17 16:55	10/03/17 16:40	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134479-1

Client Sample ID: FH-27(10-15)-092217

Lab Sample ID: 500-134479-8

Date Collected: 09/22/17 08:35

Matrix: Solid

Date Received: 09/22/17 12:15

Percent Solids: 81.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	25	J	39	10	ug/Kg	☼	09/27/17 16:55	10/03/17 16:40	1
Isophorone	<200		200	44	ug/Kg	☼	09/27/17 16:55	10/03/17 16:40	1
Naphthalene	<39		39	6.1	ug/Kg	☼	09/27/17 16:55	10/03/17 16:40	1
Nitrobenzene	<39		39	9.8	ug/Kg	☼	09/27/17 16:55	10/03/17 16:40	1
N-Nitrosodi-n-propylamine	<79		79	48	ug/Kg	☼	09/27/17 16:55	10/03/17 16:40	1
N-Nitrosodiphenylamine	<200		200	47	ug/Kg	☼	09/27/17 16:55	10/03/17 16:40	1
Pentachlorophenol	<790		790	630	ug/Kg	☼	09/27/17 16:55	10/03/17 16:40	1
Phenanthrene	33	J	39	5.5	ug/Kg	☼	09/27/17 16:55	10/03/17 16:40	1
Phenol	<200		200	88	ug/Kg	☼	09/27/17 16:55	10/03/17 16:40	1
Pyrene	58		39	7.8	ug/Kg	☼	09/27/17 16:55	10/03/17 16:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	45		25 - 139				09/27/17 16:55	10/03/17 16:40	1
2-Fluorobiphenyl	80		44 - 121				09/27/17 16:55	10/03/17 16:40	1
2-Fluorophenol	103		46 - 133				09/27/17 16:55	10/03/17 16:40	1
Nitrobenzene-d5	74		41 - 120				09/27/17 16:55	10/03/17 16:40	1
Phenol-d5	81		46 - 125				09/27/17 16:55	10/03/17 16:40	1
Terphenyl-d14	89		35 - 160				09/27/17 16:55	10/03/17 16:40	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/29/17 08:44	09/29/17 20:45	1
Barium	0.32	J	0.50	0.050	mg/L		09/29/17 08:44	09/29/17 20:45	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/29/17 08:44	09/29/17 20:45	1
Cadmium	0.0031	J	0.0050	0.0020	mg/L		09/29/17 08:44	09/29/17 20:45	1
Chromium	<0.025		0.025	0.010	mg/L		09/29/17 08:44	09/29/17 20:45	1
Cobalt	0.018	J	0.025	0.010	mg/L		09/29/17 08:44	09/29/17 20:45	1
Copper	0.018	J	0.025	0.010	mg/L		09/29/17 08:44	09/29/17 20:45	1
Iron	<0.40		0.40	0.20	mg/L		09/29/17 08:44	09/29/17 20:45	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/29/17 08:44	09/29/17 20:45	1
Manganese	4.1		0.025	0.010	mg/L		09/29/17 08:44	09/29/17 20:45	1
Nickel	0.030		0.025	0.010	mg/L		09/29/17 08:44	09/29/17 20:45	1
Selenium	<0.050		0.050	0.020	mg/L		09/29/17 08:44	09/29/17 20:45	1
Silver	<0.025		0.025	0.010	mg/L		09/29/17 08:44	09/29/17 20:45	1
Zinc	0.058	J ^	0.50	0.020	mg/L		09/29/17 08:44	09/29/17 20:45	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		09/28/17 15:44	09/29/17 13:36	1
Barium	0.073	J B	0.50	0.050	mg/L		09/28/17 15:44	09/29/17 13:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/28/17 15:44	09/29/17 13:36	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/28/17 15:44	09/29/17 13:36	1
Chromium	<0.025		0.025	0.010	mg/L		09/28/17 15:44	09/29/17 13:36	1
Cobalt	<0.025		0.025	0.010	mg/L		09/28/17 15:44	09/29/17 13:36	1
Copper	0.013	J B	0.025	0.010	mg/L		09/28/17 15:44	09/29/17 13:36	1
Iron	2.9		0.40	0.20	mg/L		09/28/17 15:44	09/29/17 13:36	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/28/17 15:44	09/29/17 13:36	1
Manganese	0.028	B	0.025	0.010	mg/L		09/28/17 15:44	09/29/17 13:36	1
Nickel	<0.025		0.025	0.010	mg/L		09/28/17 15:44	09/29/17 13:36	1
Selenium	<0.050		0.050	0.020	mg/L		09/28/17 15:44	09/29/17 13:36	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134479-1

Client Sample ID: FH-27(10-15)-092217

Lab Sample ID: 500-134479-8

Date Collected: 09/22/17 08:35

Matrix: Solid

Date Received: 09/22/17 12:15

Percent Solids: 81.3

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		09/28/17 15:44	09/29/17 13:36	1
Zinc	0.049	J ^ B	0.50	0.020	mg/L		09/28/17 15:44	09/29/17 13:36	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.22	mg/Kg	☼	09/26/17 16:04	09/27/17 21:52	1
Arsenic	11		0.58	0.20	mg/Kg	☼	09/26/17 16:04	09/27/17 21:52	1
Barium	52		0.58	0.066	mg/Kg	☼	09/26/17 16:04	09/27/17 21:52	1
Beryllium	0.71		0.23	0.054	mg/Kg	☼	09/26/17 16:04	09/27/17 21:52	1
Cadmium	0.26	B	0.12	0.021	mg/Kg	☼	09/26/17 16:04	09/27/17 21:52	1
Calcium	19000	B	12	2.0	mg/Kg	☼	09/26/17 16:04	09/27/17 21:52	1
Chromium	17		0.58	0.29	mg/Kg	☼	09/26/17 16:04	09/27/17 21:52	1
Cobalt	13		0.29	0.076	mg/Kg	☼	09/26/17 16:04	09/27/17 21:52	1
Copper	28	B	0.58	0.16	mg/Kg	☼	09/26/17 16:04	09/27/17 21:52	1
Iron	19000		12	6.0	mg/Kg	☼	09/26/17 16:04	09/27/17 21:52	1
Lead	31		0.29	0.13	mg/Kg	☼	09/26/17 16:04	09/27/17 21:52	1
Magnesium	14000		5.8	2.9	mg/Kg	☼	09/26/17 16:04	09/27/17 21:52	1
Manganese	370		0.58	0.084	mg/Kg	☼	09/26/17 16:04	09/27/17 21:52	1
Nickel	30		0.58	0.17	mg/Kg	☼	09/26/17 16:04	09/27/17 21:52	1
Potassium	1900		29	10	mg/Kg	☼	09/26/17 16:04	09/27/17 21:52	1
Selenium	0.36	J	0.58	0.34	mg/Kg	☼	09/26/17 16:04	09/27/17 21:52	1
Silver	<0.29		0.29	0.074	mg/Kg	☼	09/26/17 16:04	09/27/17 21:52	1
Sodium	82		58	8.5	mg/Kg	☼	09/26/17 16:04	09/27/17 21:52	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	09/26/17 16:04	09/27/17 21:52	1
Vanadium	23		0.29	0.068	mg/Kg	☼	09/26/17 16:04	09/27/17 21:52	1
Zinc	75		1.2	0.51	mg/Kg	☼	09/26/17 16:04	09/27/17 21:52	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		09/29/17 11:25	10/02/17 09:03	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		09/28/17 13:25	09/29/17 11:48	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	45		20	6.7	ug/Kg	☼	09/29/17 07:10	09/29/17 14:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.3		0.20	0.20	SU			09/28/17 16:06	1

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134479-1

Client Sample ID: FH-27(15-20)-092217

Lab Sample ID: 500-134479-9

Date Collected: 09/22/17 08:44

Matrix: Solid

Date Received: 09/22/17 12:15

Percent Solids: 83.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	29		14	6.3	ug/Kg	☼	09/22/17 16:27	09/26/17 12:49	1
Benzene	<1.4		1.4	0.37	ug/Kg	☼	09/22/17 16:27	09/26/17 12:49	1
Bromodichloromethane	<1.4		1.4	0.29	ug/Kg	☼	09/22/17 16:27	09/26/17 12:49	1
Bromoform	<1.4		1.4	0.42	ug/Kg	☼	09/22/17 16:27	09/26/17 12:49	1
Bromomethane	<3.6		3.6	1.4	ug/Kg	☼	09/22/17 16:27	09/26/17 12:49	1
Carbon disulfide	<3.6		3.6	0.75	ug/Kg	☼	09/22/17 16:27	09/26/17 12:49	1
Carbon tetrachloride	<1.4		1.4	0.42	ug/Kg	☼	09/22/17 16:27	09/26/17 12:49	1
Chlorobenzene	<1.4		1.4	0.53	ug/Kg	☼	09/22/17 16:27	09/26/17 12:49	1
Chloroethane	<3.6		3.6	1.1	ug/Kg	☼	09/22/17 16:27	09/26/17 12:49	1
Chloroform	<1.4		1.4	0.50	ug/Kg	☼	09/22/17 16:27	09/26/17 12:49	1
Chloromethane	<3.6		3.6	1.5	ug/Kg	☼	09/22/17 16:27	09/26/17 12:49	1
cis-1,2-Dichloroethene	<1.4		1.4	0.40	ug/Kg	☼	09/22/17 16:27	09/26/17 12:49	1
cis-1,3-Dichloropropene	<1.4		1.4	0.44	ug/Kg	☼	09/22/17 16:27	09/26/17 12:49	1
Dibromochloromethane	<1.4		1.4	0.47	ug/Kg	☼	09/22/17 16:27	09/26/17 12:49	1
1,1-Dichloroethane	<1.4		1.4	0.50	ug/Kg	☼	09/22/17 16:27	09/26/17 12:49	1
1,2-Dichloroethane	<3.6		3.6	1.1	ug/Kg	☼	09/22/17 16:27	09/26/17 12:49	1
1,1-Dichloroethene	<1.4		1.4	0.50	ug/Kg	☼	09/22/17 16:27	09/26/17 12:49	1
1,2-Dichloropropane	<1.4		1.4	0.37	ug/Kg	☼	09/22/17 16:27	09/26/17 12:49	1
1,3-Dichloropropene, Total	<1.4		1.4	0.51	ug/Kg	☼	09/22/17 16:27	09/26/17 12:49	1
Ethylbenzene	<1.4		1.4	0.69	ug/Kg	☼	09/22/17 16:27	09/26/17 12:49	1
2-Hexanone	<3.6		3.6	1.1	ug/Kg	☼	09/22/17 16:27	09/26/17 12:49	1
Methylene Chloride	<3.6		3.6	1.4	ug/Kg	☼	09/22/17 16:27	09/26/17 12:49	1
Methyl Ethyl Ketone	<3.6		3.6	1.6	ug/Kg	☼	09/22/17 16:27	09/26/17 12:49	1
methyl isobutyl ketone	<3.6		3.6	1.1	ug/Kg	☼	09/22/17 16:27	09/26/17 12:49	1
Methyl tert-butyl ether	<1.4		1.4	0.42	ug/Kg	☼	09/22/17 16:27	09/26/17 12:49	1
Styrene	<1.4		1.4	0.44	ug/Kg	☼	09/22/17 16:27	09/26/17 12:49	1
1,1,2,2-Tetrachloroethane	<1.4		1.4	0.46	ug/Kg	☼	09/22/17 16:27	09/26/17 12:49	1
Tetrachloroethene	<1.4		1.4	0.49	ug/Kg	☼	09/22/17 16:27	09/26/17 12:49	1
Toluene	<1.4		1.4	0.37	ug/Kg	☼	09/22/17 16:27	09/26/17 12:49	1
trans-1,2-Dichloroethene	<1.4		1.4	0.64	ug/Kg	☼	09/22/17 16:27	09/26/17 12:49	1
trans-1,3-Dichloropropene	<1.4		1.4	0.51	ug/Kg	☼	09/22/17 16:27	09/26/17 12:49	1
1,1,1-Trichloroethane	<1.4		1.4	0.49	ug/Kg	☼	09/22/17 16:27	09/26/17 12:49	1
1,1,2-Trichloroethane	<1.4		1.4	0.62	ug/Kg	☼	09/22/17 16:27	09/26/17 12:49	1
Trichloroethene	<1.4		1.4	0.49	ug/Kg	☼	09/22/17 16:27	09/26/17 12:49	1
Vinyl chloride	<1.4		1.4	0.64	ug/Kg	☼	09/22/17 16:27	09/26/17 12:49	1
Xylenes, Total	<2.9		2.9	0.46	ug/Kg	☼	09/22/17 16:27	09/26/17 12:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		75 - 131	09/22/17 16:27	09/26/17 12:49	1
Dibromofluoromethane	98		75 - 126	09/22/17 16:27	09/26/17 12:49	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	09/22/17 16:27	09/26/17 12:49	1
Toluene-d8 (Surr)	102		75 - 124	09/22/17 16:27	09/26/17 12:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<200		200	43	ug/Kg	☼	09/27/17 16:55	10/04/17 11:17	1
1,2-Dichlorobenzene	<200		200	48	ug/Kg	☼	09/27/17 16:55	10/04/17 11:17	1
1,3-Dichlorobenzene	<200		200	45	ug/Kg	☼	09/27/17 16:55	10/04/17 11:17	1
1,4-Dichlorobenzene	<200		200	51	ug/Kg	☼	09/27/17 16:55	10/04/17 11:17	1
2,2'-oxybis[1-chloropropane]	<200		200	46	ug/Kg	☼	09/27/17 16:55	10/04/17 11:17	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134479-1

Client Sample ID: FH-27(15-20)-092217

Lab Sample ID: 500-134479-9

Date Collected: 09/22/17 08:44

Matrix: Solid

Date Received: 09/22/17 12:15

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	91	ug/Kg	☼	09/27/17 16:55	10/04/17 11:17	1
2,4,6-Trichlorophenol	<390		390	140	ug/Kg	☼	09/27/17 16:55	10/04/17 11:17	1
2,4-Dichlorophenol	<390		390	94	ug/Kg	☼	09/27/17 16:55	10/04/17 11:17	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	09/27/17 16:55	10/04/17 11:17	1
2,4-Dinitrophenol	<800	*	800	700	ug/Kg	☼	09/27/17 16:55	10/04/17 11:17	1
2,4-Dinitrotoluene	<200		200	63	ug/Kg	☼	09/27/17 16:55	10/04/17 11:17	1
2,6-Dinitrotoluene	<200		200	78	ug/Kg	☼	09/27/17 16:55	10/04/17 11:17	1
2-Chloronaphthalene	<200		200	44	ug/Kg	☼	09/27/17 16:55	10/04/17 11:17	1
2-Chlorophenol	<200		200	68	ug/Kg	☼	09/27/17 16:55	10/04/17 11:17	1
2-Methylnaphthalene	<80		80	7.3	ug/Kg	☼	09/27/17 16:55	10/04/17 11:17	1
2-Methylphenol	<200		200	64	ug/Kg	☼	09/27/17 16:55	10/04/17 11:17	1
2-Nitroaniline	<200		200	53	ug/Kg	☼	09/27/17 16:55	10/04/17 11:17	1
2-Nitrophenol	<390		390	94	ug/Kg	☼	09/27/17 16:55	10/04/17 11:17	1
3 & 4 Methylphenol	<200		200	66	ug/Kg	☼	09/27/17 16:55	10/04/17 11:17	1
3,3'-Dichlorobenzidine	<200		200	56	ug/Kg	☼	09/27/17 16:55	10/04/17 11:17	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	09/27/17 16:55	10/04/17 11:17	1
4,6-Dinitro-2-methylphenol	<800		800	320	ug/Kg	☼	09/27/17 16:55	10/04/17 11:17	1
4-Bromophenyl phenyl ether	<200		200	52	ug/Kg	☼	09/27/17 16:55	10/04/17 11:17	1
4-Chloro-3-methylphenol	<390		390	140	ug/Kg	☼	09/27/17 16:55	10/04/17 11:17	1
4-Chloroaniline	<800		800	190	ug/Kg	☼	09/27/17 16:55	10/04/17 11:17	1
4-Chlorophenyl phenyl ether	<200		200	46	ug/Kg	☼	09/27/17 16:55	10/04/17 11:17	1
4-Nitroaniline	<390		390	170	ug/Kg	☼	09/27/17 16:55	10/04/17 11:17	1
4-Nitrophenol	<800		800	380	ug/Kg	☼	09/27/17 16:55	10/04/17 11:17	1
Acenaphthene	12	J	39	7.1	ug/Kg	☼	09/27/17 16:55	10/04/17 11:17	1
Acenaphthylene	5.7	J	39	5.2	ug/Kg	☼	09/27/17 16:55	10/04/17 11:17	1
Anthracene	38	J	39	6.6	ug/Kg	☼	09/27/17 16:55	10/04/17 11:17	1
Benzo[a]anthracene	180		39	5.3	ug/Kg	☼	09/27/17 16:55	10/04/17 11:17	1
Benzo[a]pyrene	190		39	7.7	ug/Kg	☼	09/27/17 16:55	10/04/17 11:17	1
Benzo[b]fluoranthene	250		39	8.6	ug/Kg	☼	09/27/17 16:55	10/04/17 11:17	1
Benzo[g,h,i]perylene	130		39	13	ug/Kg	☼	09/27/17 16:55	10/04/17 11:17	1
Benzo[k]fluoranthene	100		39	12	ug/Kg	☼	09/27/17 16:55	10/04/17 11:17	1
Bis(2-chloroethoxy)methane	<200		200	41	ug/Kg	☼	09/27/17 16:55	10/04/17 11:17	1
Bis(2-chloroethyl)ether	<200		200	60	ug/Kg	☼	09/27/17 16:55	10/04/17 11:17	1
Bis(2-ethylhexyl) phthalate	<200		200	73	ug/Kg	☼	09/27/17 16:55	10/04/17 11:17	1
Butyl benzyl phthalate	<200		200	76	ug/Kg	☼	09/27/17 16:55	10/04/17 11:17	1
Carbazole	<200		200	99	ug/Kg	☼	09/27/17 16:55	10/04/17 11:17	1
Chrysene	190		39	11	ug/Kg	☼	09/27/17 16:55	10/04/17 11:17	1
Dibenz(a,h)anthracene	33	J	39	7.7	ug/Kg	☼	09/27/17 16:55	10/04/17 11:17	1
Dibenzofuran	<200		200	47	ug/Kg	☼	09/27/17 16:55	10/04/17 11:17	1
Diethyl phthalate	<200		200	67	ug/Kg	☼	09/27/17 16:55	10/04/17 11:17	1
Dimethyl phthalate	<200		200	52	ug/Kg	☼	09/27/17 16:55	10/04/17 11:17	1
Di-n-butyl phthalate	<200		200	61	ug/Kg	☼	09/27/17 16:55	10/04/17 11:17	1
Di-n-octyl phthalate	<200		200	65	ug/Kg	☼	09/27/17 16:55	10/04/17 11:17	1
Fluoranthene	400		39	7.4	ug/Kg	☼	09/27/17 16:55	10/04/17 11:17	1
Fluorene	14	J	39	5.6	ug/Kg	☼	09/27/17 16:55	10/04/17 11:17	1
Hexachlorobenzene	<80		80	9.2	ug/Kg	☼	09/27/17 16:55	10/04/17 11:17	1
Hexachlorobutadiene	<200		200	62	ug/Kg	☼	09/27/17 16:55	10/04/17 11:17	1
Hexachlorocyclopentadiene	<800		800	230	ug/Kg	☼	09/27/17 16:55	10/04/17 11:17	1
Hexachloroethane	<200		200	60	ug/Kg	☼	09/27/17 16:55	10/04/17 11:17	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134479-1

Client Sample ID: FH-27(15-20)-092217

Lab Sample ID: 500-134479-9

Date Collected: 09/22/17 08:44

Matrix: Solid

Date Received: 09/22/17 12:15

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	110		39	10	ug/Kg	☼	09/27/17 16:55	10/04/17 11:17	1
Isophorone	<200		200	45	ug/Kg	☼	09/27/17 16:55	10/04/17 11:17	1
Naphthalene	<39		39	6.1	ug/Kg	☼	09/27/17 16:55	10/04/17 11:17	1
Nitrobenzene	<39		39	9.9	ug/Kg	☼	09/27/17 16:55	10/04/17 11:17	1
N-Nitrosodi-n-propylamine	<80		80	49	ug/Kg	☼	09/27/17 16:55	10/04/17 11:17	1
N-Nitrosodiphenylamine	<200		200	47	ug/Kg	☼	09/27/17 16:55	10/04/17 11:17	1
Pentachlorophenol	<800		800	640	ug/Kg	☼	09/27/17 16:55	10/04/17 11:17	1
Phenanthrene	190		39	5.5	ug/Kg	☼	09/27/17 16:55	10/04/17 11:17	1
Phenol	<200		200	88	ug/Kg	☼	09/27/17 16:55	10/04/17 11:17	1
Pyrene	340		39	7.9	ug/Kg	☼	09/27/17 16:55	10/04/17 11:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	79		25 - 139				09/27/17 16:55	10/04/17 11:17	1
2-Fluorobiphenyl	79		44 - 121				09/27/17 16:55	10/04/17 11:17	1
2-Fluorophenol	95		46 - 133				09/27/17 16:55	10/04/17 11:17	1
Nitrobenzene-d5	74		41 - 120				09/27/17 16:55	10/04/17 11:17	1
Phenol-d5	91		46 - 125				09/27/17 16:55	10/04/17 11:17	1
Terphenyl-d14	86		35 - 160				09/27/17 16:55	10/04/17 11:17	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		09/29/17 08:44	09/29/17 20:49	1
Barium	0.50		0.50	0.050	mg/L		09/29/17 08:44	09/29/17 20:49	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/29/17 08:44	09/29/17 20:49	1
Cadmium	0.0035	J	0.0050	0.0020	mg/L		09/29/17 08:44	09/29/17 20:49	1
Chromium	<0.025		0.025	0.010	mg/L		09/29/17 08:44	09/29/17 20:49	1
Cobalt	0.041		0.025	0.010	mg/L		09/29/17 08:44	09/29/17 20:49	1
Copper	0.027		0.025	0.010	mg/L		09/29/17 08:44	09/29/17 20:49	1
Iron	0.20	J	0.40	0.20	mg/L		09/29/17 08:44	09/29/17 20:49	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/29/17 08:44	09/29/17 20:49	1
Manganese	9.4		0.025	0.010	mg/L		09/29/17 08:44	09/29/17 20:49	1
Nickel	0.037		0.025	0.010	mg/L		09/29/17 08:44	09/29/17 20:49	1
Selenium	<0.050		0.050	0.020	mg/L		09/29/17 08:44	09/29/17 20:49	1
Silver	<0.025		0.025	0.010	mg/L		09/29/17 08:44	09/29/17 20:49	1
Zinc	0.096	J ^	0.50	0.020	mg/L		09/29/17 08:44	09/29/17 20:49	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		09/28/17 15:44	10/02/17 15:09	1
Barium	0.14	J B	0.50	0.050	mg/L		09/28/17 15:44	10/02/17 15:09	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/28/17 15:44	10/02/17 15:09	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/28/17 15:44	10/02/17 15:09	1
Chromium	0.011	J	0.025	0.010	mg/L		09/28/17 15:44	10/02/17 15:09	1
Cobalt	<0.025		0.025	0.010	mg/L		09/28/17 15:44	10/02/17 15:09	1
Copper	0.032	B	0.025	0.010	mg/L		09/28/17 15:44	10/02/17 15:09	1
Iron	6.3		0.40	0.20	mg/L		09/28/17 15:44	10/02/17 15:09	1
Lead	0.0085		0.0075	0.0075	mg/L		09/28/17 15:44	10/02/17 15:09	1
Manganese	0.16	B	0.025	0.010	mg/L		09/28/17 15:44	10/02/17 15:09	1
Nickel	<0.025		0.025	0.010	mg/L		09/28/17 15:44	10/02/17 15:09	1
Selenium	<0.050		0.050	0.020	mg/L		09/28/17 15:44	10/02/17 15:09	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134479-1

Client Sample ID: FH-27(15-20)-092217

Lab Sample ID: 500-134479-9

Date Collected: 09/22/17 08:44

Matrix: Solid

Date Received: 09/22/17 12:15

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		09/28/17 15:44	10/02/17 15:09	1
Zinc	0.083	J B	0.50	0.020	mg/L		09/28/17 15:44	10/02/17 15:09	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.23	mg/Kg	☼	09/26/17 16:04	09/27/17 21:56	1
Arsenic	8.1		0.60	0.21	mg/Kg	☼	09/26/17 16:04	09/27/17 21:56	1
Barium	52		0.60	0.068	mg/Kg	☼	09/26/17 16:04	09/27/17 21:56	1
Beryllium	0.68		0.24	0.056	mg/Kg	☼	09/26/17 16:04	09/27/17 21:56	1
Cadmium	0.25	B	0.12	0.022	mg/Kg	☼	09/26/17 16:04	09/27/17 21:56	1
Calcium	30000	B	12	2.0	mg/Kg	☼	09/26/17 16:04	09/27/17 21:56	1
Chromium	15		0.60	0.30	mg/Kg	☼	09/26/17 16:04	09/27/17 21:56	1
Cobalt	14		0.30	0.079	mg/Kg	☼	09/26/17 16:04	09/27/17 21:56	1
Copper	28	B	0.60	0.17	mg/Kg	☼	09/26/17 16:04	09/27/17 21:56	1
Iron	19000		12	6.2	mg/Kg	☼	09/26/17 16:04	09/27/17 21:56	1
Lead	32		0.30	0.14	mg/Kg	☼	09/26/17 16:04	09/27/17 21:56	1
Magnesium	17000		6.0	3.0	mg/Kg	☼	09/26/17 16:04	09/27/17 21:56	1
Manganese	420		0.60	0.087	mg/Kg	☼	09/26/17 16:04	09/27/17 21:56	1
Nickel	34		0.60	0.17	mg/Kg	☼	09/26/17 16:04	09/27/17 21:56	1
Potassium	1300		30	11	mg/Kg	☼	09/26/17 16:04	09/27/17 21:56	1
Selenium	<0.60		0.60	0.35	mg/Kg	☼	09/26/17 16:04	09/27/17 21:56	1
Silver	<0.30		0.30	0.077	mg/Kg	☼	09/26/17 16:04	09/27/17 21:56	1
Sodium	80		60	8.9	mg/Kg	☼	09/26/17 16:04	09/27/17 21:56	1
Thallium	<0.60		0.60	0.30	mg/Kg	☼	09/26/17 16:04	09/27/17 21:56	1
Vanadium	17		0.30	0.071	mg/Kg	☼	09/26/17 16:04	09/27/17 21:56	1
Zinc	68		1.2	0.53	mg/Kg	☼	09/26/17 16:04	09/27/17 21:56	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		09/29/17 11:25	10/02/17 09:05	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		09/28/17 13:25	09/29/17 11:50	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	31		18	6.0	ug/Kg	☼	09/29/17 07:10	09/29/17 14:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.3		0.20	0.20	SU			09/28/17 16:09	1

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134479-1

Client Sample ID: FH-27(20-25)-092217

Lab Sample ID: 500-134479-10

Date Collected: 09/22/17 08:55

Matrix: Solid

Date Received: 09/22/17 12:15

Percent Solids: 81.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	45		18	7.9	ug/Kg	☼	09/22/17 16:27	09/26/17 13:14	1
Benzene	<1.8		1.8	0.46	ug/Kg	☼	09/22/17 16:27	09/26/17 13:14	1
Bromodichloromethane	<1.8		1.8	0.37	ug/Kg	☼	09/22/17 16:27	09/26/17 13:14	1
Bromoform	<1.8		1.8	0.53	ug/Kg	☼	09/22/17 16:27	09/26/17 13:14	1
Bromomethane	<4.5		4.5	1.7	ug/Kg	☼	09/22/17 16:27	09/26/17 13:14	1
Carbon disulfide	<4.5		4.5	0.94	ug/Kg	☼	09/22/17 16:27	09/26/17 13:14	1
Carbon tetrachloride	<1.8		1.8	0.52	ug/Kg	☼	09/22/17 16:27	09/26/17 13:14	1
Chlorobenzene	<1.8		1.8	0.67	ug/Kg	☼	09/22/17 16:27	09/26/17 13:14	1
Chloroethane	<4.5		4.5	1.3	ug/Kg	☼	09/22/17 16:27	09/26/17 13:14	1
Chloroform	<1.8		1.8	0.63	ug/Kg	☼	09/22/17 16:27	09/26/17 13:14	1
Chloromethane	<4.5		4.5	1.8	ug/Kg	☼	09/22/17 16:27	09/26/17 13:14	1
cis-1,2-Dichloroethene	<1.8		1.8	0.51	ug/Kg	☼	09/22/17 16:27	09/26/17 13:14	1
cis-1,3-Dichloropropene	<1.8		1.8	0.55	ug/Kg	☼	09/22/17 16:27	09/26/17 13:14	1
Dibromochloromethane	<1.8		1.8	0.59	ug/Kg	☼	09/22/17 16:27	09/26/17 13:14	1
1,1-Dichloroethane	<1.8		1.8	0.62	ug/Kg	☼	09/22/17 16:27	09/26/17 13:14	1
1,2-Dichloroethane	<4.5		4.5	1.4	ug/Kg	☼	09/22/17 16:27	09/26/17 13:14	1
1,1-Dichloroethene	<1.8		1.8	0.62	ug/Kg	☼	09/22/17 16:27	09/26/17 13:14	1
1,2-Dichloropropane	<1.8		1.8	0.47	ug/Kg	☼	09/22/17 16:27	09/26/17 13:14	1
1,3-Dichloropropene, Total	<1.8		1.8	0.63	ug/Kg	☼	09/22/17 16:27	09/26/17 13:14	1
Ethylbenzene	<1.8		1.8	0.87	ug/Kg	☼	09/22/17 16:27	09/26/17 13:14	1
2-Hexanone	<4.5		4.5	1.4	ug/Kg	☼	09/22/17 16:27	09/26/17 13:14	1
Methylene Chloride	<4.5		4.5	1.8	ug/Kg	☼	09/22/17 16:27	09/26/17 13:14	1
Methyl Ethyl Ketone	<4.5		4.5	2.0	ug/Kg	☼	09/22/17 16:27	09/26/17 13:14	1
methyl isobutyl ketone	<4.5		4.5	1.3	ug/Kg	☼	09/22/17 16:27	09/26/17 13:14	1
Methyl tert-butyl ether	<1.8		1.8	0.53	ug/Kg	☼	09/22/17 16:27	09/26/17 13:14	1
Styrene	<1.8		1.8	0.55	ug/Kg	☼	09/22/17 16:27	09/26/17 13:14	1
1,1,2,2-Tetrachloroethane	<1.8		1.8	0.58	ug/Kg	☼	09/22/17 16:27	09/26/17 13:14	1
Tetrachloroethene	<1.8		1.8	0.62	ug/Kg	☼	09/22/17 16:27	09/26/17 13:14	1
Toluene	<1.8		1.8	0.46	ug/Kg	☼	09/22/17 16:27	09/26/17 13:14	1
trans-1,2-Dichloroethene	<1.8		1.8	0.80	ug/Kg	☼	09/22/17 16:27	09/26/17 13:14	1
trans-1,3-Dichloropropene	<1.8		1.8	0.63	ug/Kg	☼	09/22/17 16:27	09/26/17 13:14	1
1,1,1-Trichloroethane	<1.8		1.8	0.61	ug/Kg	☼	09/22/17 16:27	09/26/17 13:14	1
1,1,2-Trichloroethane	<1.8		1.8	0.78	ug/Kg	☼	09/22/17 16:27	09/26/17 13:14	1
Trichloroethene	<1.8		1.8	0.61	ug/Kg	☼	09/22/17 16:27	09/26/17 13:14	1
Vinyl chloride	<1.8		1.8	0.80	ug/Kg	☼	09/22/17 16:27	09/26/17 13:14	1
Xylenes, Total	<3.6		3.6	0.58	ug/Kg	☼	09/22/17 16:27	09/26/17 13:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		75 - 131	09/22/17 16:27	09/26/17 13:14	1
Dibromofluoromethane	92		75 - 126	09/22/17 16:27	09/26/17 13:14	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134	09/22/17 16:27	09/26/17 13:14	1
Toluene-d8 (Surr)	98		75 - 124	09/22/17 16:27	09/26/17 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	<200		200	43	ug/Kg	☼	09/27/17 16:55	10/04/17 11:41	1
1,2-Dichlorobenzene	<200		200	48	ug/Kg	☼	09/27/17 16:55	10/04/17 11:41	1
1,3-Dichlorobenzene	<200		200	45	ug/Kg	☼	09/27/17 16:55	10/04/17 11:41	1
1,4-Dichlorobenzene	<200		200	51	ug/Kg	☼	09/27/17 16:55	10/04/17 11:41	1
2,2'-oxybis[1-chloropropane]	<200		200	46	ug/Kg	☼	09/27/17 16:55	10/04/17 11:41	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134479-1

Client Sample ID: FH-27(20-25)-092217

Lab Sample ID: 500-134479-10

Date Collected: 09/22/17 08:55

Matrix: Solid

Date Received: 09/22/17 12:15

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	<400		400	91	ug/Kg	☼	09/27/17 16:55	10/04/17 11:41	1
2,4,6-Trichlorophenol	<400		400	140	ug/Kg	☼	09/27/17 16:55	10/04/17 11:41	1
2,4-Dichlorophenol	<400		400	95	ug/Kg	☼	09/27/17 16:55	10/04/17 11:41	1
2,4-Dimethylphenol	<400		400	150	ug/Kg	☼	09/27/17 16:55	10/04/17 11:41	1
2,4-Dinitrophenol	<810	*	810	710	ug/Kg	☼	09/27/17 16:55	10/04/17 11:41	1
2,4-Dinitrotoluene	<200		200	64	ug/Kg	☼	09/27/17 16:55	10/04/17 11:41	1
2,6-Dinitrotoluene	<200		200	79	ug/Kg	☼	09/27/17 16:55	10/04/17 11:41	1
2-Chloronaphthalene	<200		200	44	ug/Kg	☼	09/27/17 16:55	10/04/17 11:41	1
2-Chlorophenol	<200		200	68	ug/Kg	☼	09/27/17 16:55	10/04/17 11:41	1
2-Methylnaphthalene	<81		81	7.4	ug/Kg	☼	09/27/17 16:55	10/04/17 11:41	1
2-Methylphenol	<200		200	64	ug/Kg	☼	09/27/17 16:55	10/04/17 11:41	1
2-Nitroaniline	<200		200	54	ug/Kg	☼	09/27/17 16:55	10/04/17 11:41	1
2-Nitrophenol	<400		400	95	ug/Kg	☼	09/27/17 16:55	10/04/17 11:41	1
3 & 4 Methylphenol	<200		200	67	ug/Kg	☼	09/27/17 16:55	10/04/17 11:41	1
3,3'-Dichlorobenzidine	<200		200	56	ug/Kg	☼	09/27/17 16:55	10/04/17 11:41	1
3-Nitroaniline	<400		400	120	ug/Kg	☼	09/27/17 16:55	10/04/17 11:41	1
4,6-Dinitro-2-methylphenol	<810		810	320	ug/Kg	☼	09/27/17 16:55	10/04/17 11:41	1
4-Bromophenyl phenyl ether	<200		200	53	ug/Kg	☼	09/27/17 16:55	10/04/17 11:41	1
4-Chloro-3-methylphenol	<400		400	140	ug/Kg	☼	09/27/17 16:55	10/04/17 11:41	1
4-Chloroaniline	<810		810	190	ug/Kg	☼	09/27/17 16:55	10/04/17 11:41	1
4-Chlorophenyl phenyl ether	<200		200	47	ug/Kg	☼	09/27/17 16:55	10/04/17 11:41	1
4-Nitroaniline	<400		400	170	ug/Kg	☼	09/27/17 16:55	10/04/17 11:41	1
4-Nitrophenol	<810		810	380	ug/Kg	☼	09/27/17 16:55	10/04/17 11:41	1
Acenaphthene	<40		40	7.2	ug/Kg	☼	09/27/17 16:55	10/04/17 11:41	1
Acenaphthylene	18	J	40	5.3	ug/Kg	☼	09/27/17 16:55	10/04/17 11:41	1
Anthracene	24	J	40	6.7	ug/Kg	☼	09/27/17 16:55	10/04/17 11:41	1
Benzo[a]anthracene	170		40	5.4	ug/Kg	☼	09/27/17 16:55	10/04/17 11:41	1
Benzo[a]pyrene	150		40	7.8	ug/Kg	☼	09/27/17 16:55	10/04/17 11:41	1
Benzo[b]fluoranthene	210		40	8.6	ug/Kg	☼	09/27/17 16:55	10/04/17 11:41	1
Benzo[g,h,i]perylene	85		40	13	ug/Kg	☼	09/27/17 16:55	10/04/17 11:41	1
Benzo[k]fluoranthene	73		40	12	ug/Kg	☼	09/27/17 16:55	10/04/17 11:41	1
Bis(2-chloroethoxy)methane	<200		200	41	ug/Kg	☼	09/27/17 16:55	10/04/17 11:41	1
Bis(2-chloroethyl)ether	<200		200	60	ug/Kg	☼	09/27/17 16:55	10/04/17 11:41	1
Bis(2-ethylhexyl) phthalate	<200		200	73	ug/Kg	☼	09/27/17 16:55	10/04/17 11:41	1
Butyl benzyl phthalate	<200		200	76	ug/Kg	☼	09/27/17 16:55	10/04/17 11:41	1
Carbazole	<200		200	100	ug/Kg	☼	09/27/17 16:55	10/04/17 11:41	1
Chrysene	160		40	11	ug/Kg	☼	09/27/17 16:55	10/04/17 11:41	1
Dibenz(a,h)anthracene	31	J	40	7.7	ug/Kg	☼	09/27/17 16:55	10/04/17 11:41	1
Dibenzofuran	<200		200	47	ug/Kg	☼	09/27/17 16:55	10/04/17 11:41	1
Diethyl phthalate	<200		200	68	ug/Kg	☼	09/27/17 16:55	10/04/17 11:41	1
Dimethyl phthalate	<200		200	52	ug/Kg	☼	09/27/17 16:55	10/04/17 11:41	1
Di-n-butyl phthalate	<200		200	61	ug/Kg	☼	09/27/17 16:55	10/04/17 11:41	1
Di-n-octyl phthalate	<200		200	65	ug/Kg	☼	09/27/17 16:55	10/04/17 11:41	1
Fluoranthene	200		40	7.4	ug/Kg	☼	09/27/17 16:55	10/04/17 11:41	1
Fluorene	<40		40	5.6	ug/Kg	☼	09/27/17 16:55	10/04/17 11:41	1
Hexachlorobenzene	<81		81	9.3	ug/Kg	☼	09/27/17 16:55	10/04/17 11:41	1
Hexachlorobutadiene	<200		200	63	ug/Kg	☼	09/27/17 16:55	10/04/17 11:41	1
Hexachlorocyclopentadiene	<810		810	230	ug/Kg	☼	09/27/17 16:55	10/04/17 11:41	1
Hexachloroethane	<200		200	61	ug/Kg	☼	09/27/17 16:55	10/04/17 11:41	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134479-1

Client Sample ID: FH-27(20-25)-092217

Lab Sample ID: 500-134479-10

Date Collected: 09/22/17 08:55

Matrix: Solid

Date Received: 09/22/17 12:15

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	82		40	10	ug/Kg	☼	09/27/17 16:55	10/04/17 11:41	1
Isophorone	<200		200	45	ug/Kg	☼	09/27/17 16:55	10/04/17 11:41	1
Naphthalene	6.6	J	40	6.2	ug/Kg	☼	09/27/17 16:55	10/04/17 11:41	1
Nitrobenzene	<40		40	10	ug/Kg	☼	09/27/17 16:55	10/04/17 11:41	1
N-Nitrosodi-n-propylamine	<81		81	49	ug/Kg	☼	09/27/17 16:55	10/04/17 11:41	1
N-Nitrosodiphenylamine	<200		200	47	ug/Kg	☼	09/27/17 16:55	10/04/17 11:41	1
Pentachlorophenol	<810		810	640	ug/Kg	☼	09/27/17 16:55	10/04/17 11:41	1
Phenanthrene	68		40	5.6	ug/Kg	☼	09/27/17 16:55	10/04/17 11:41	1
Phenol	<200		200	89	ug/Kg	☼	09/27/17 16:55	10/04/17 11:41	1
Pyrene	170		40	8.0	ug/Kg	☼	09/27/17 16:55	10/04/17 11:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	60		25 - 139				09/27/17 16:55	10/04/17 11:41	1
2-Fluorobiphenyl	79		44 - 121				09/27/17 16:55	10/04/17 11:41	1
2-Fluorophenol	111		46 - 133				09/27/17 16:55	10/04/17 11:41	1
Nitrobenzene-d5	71		41 - 120				09/27/17 16:55	10/04/17 11:41	1
Phenol-d5	108		46 - 125				09/27/17 16:55	10/04/17 11:41	1
Terphenyl-d14	85		35 - 160				09/27/17 16:55	10/04/17 11:41	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		09/29/17 08:44	09/29/17 20:53	1
Barium	0.87		0.50	0.050	mg/L		09/29/17 08:44	09/29/17 20:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/29/17 08:44	09/29/17 20:53	1
Cadmium	0.0033	J	0.0050	0.0020	mg/L		09/29/17 08:44	09/29/17 20:53	1
Chromium	<0.025		0.025	0.010	mg/L		09/29/17 08:44	09/29/17 20:53	1
Cobalt	0.035		0.025	0.010	mg/L		09/29/17 08:44	09/29/17 20:53	1
Copper	0.024	J	0.025	0.010	mg/L		09/29/17 08:44	09/29/17 20:53	1
Iron	0.25	J	0.40	0.20	mg/L		09/29/17 08:44	09/29/17 20:53	1
Lead	0.0077		0.0075	0.0075	mg/L		09/29/17 08:44	09/29/17 20:53	1
Manganese	13		0.025	0.010	mg/L		09/29/17 08:44	09/29/17 20:53	1
Nickel	0.027		0.025	0.010	mg/L		09/29/17 08:44	09/29/17 20:53	1
Selenium	<0.050		0.050	0.020	mg/L		09/29/17 08:44	09/29/17 20:53	1
Silver	<0.025		0.025	0.010	mg/L		09/29/17 08:44	09/29/17 20:53	1
Zinc	0.33	J ^	0.50	0.020	mg/L		09/29/17 08:44	09/29/17 20:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/28/17 15:44	09/29/17 15:46	1
Barium	0.31	J B	0.50	0.050	mg/L		09/28/17 15:44	09/29/17 15:46	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/28/17 15:44	09/29/17 15:46	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/28/17 15:44	09/29/17 15:46	1
Chromium	0.030		0.025	0.010	mg/L		09/28/17 15:44	09/29/17 15:46	1
Cobalt	0.012	J	0.025	0.010	mg/L		09/28/17 15:44	09/29/17 15:46	1
Copper	0.056	B	0.025	0.010	mg/L		09/28/17 15:44	09/29/17 15:46	1
Iron	26		0.40	0.20	mg/L		09/28/17 15:44	09/29/17 15:46	1
Lead	0.031		0.0075	0.0075	mg/L		09/28/17 15:44	09/29/17 15:46	1
Manganese	0.47	B	0.025	0.010	mg/L		09/28/17 15:44	09/29/17 15:46	1
Nickel	0.029		0.025	0.010	mg/L		09/28/17 15:44	09/29/17 15:46	1
Selenium	<0.050		0.050	0.020	mg/L		09/28/17 15:44	09/29/17 15:46	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134479-1

Client Sample ID: FH-27(20-25)-092217

Lab Sample ID: 500-134479-10

Date Collected: 09/22/17 08:55

Matrix: Solid

Date Received: 09/22/17 12:15

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		09/28/17 15:44	09/29/17 15:46	1
Zinc	0.17	J B	0.50	0.020	mg/L		09/28/17 15:44	09/29/17 15:46	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.32	J	1.2	0.23	mg/Kg	☼	09/26/17 16:04	09/27/17 22:08	1
Arsenic	9.1		0.58	0.20	mg/Kg	☼	09/26/17 16:04	09/27/17 22:08	1
Barium	78		0.58	0.066	mg/Kg	☼	09/26/17 16:04	09/27/17 22:08	1
Beryllium	0.78		0.23	0.054	mg/Kg	☼	09/26/17 16:04	09/27/17 22:08	1
Cadmium	0.19	B	0.12	0.021	mg/Kg	☼	09/26/17 16:04	09/27/17 22:08	1
Calcium	28000	B	12	2.0	mg/Kg	☼	09/26/17 16:04	09/27/17 22:08	1
Chromium	17		0.58	0.29	mg/Kg	☼	09/26/17 16:04	09/27/17 22:08	1
Cobalt	17		0.29	0.076	mg/Kg	☼	09/26/17 16:04	09/27/17 22:08	1
Copper	47	B	0.58	0.16	mg/Kg	☼	09/26/17 16:04	09/27/17 22:08	1
Iron	22000		12	6.0	mg/Kg	☼	09/26/17 16:04	09/27/17 22:08	1
Lead	50		0.29	0.13	mg/Kg	☼	09/26/17 16:04	09/27/17 22:08	1
Magnesium	16000		5.8	2.9	mg/Kg	☼	09/26/17 16:04	09/27/17 22:08	1
Manganese	590		0.58	0.084	mg/Kg	☼	09/26/17 16:04	09/27/17 22:08	1
Nickel	37		0.58	0.17	mg/Kg	☼	09/26/17 16:04	09/27/17 22:08	1
Potassium	1900		29	10	mg/Kg	☼	09/26/17 16:04	09/27/17 22:08	1
Selenium	0.39	J	0.58	0.34	mg/Kg	☼	09/26/17 16:04	09/27/17 22:08	1
Silver	<0.29		0.29	0.075	mg/Kg	☼	09/26/17 16:04	09/27/17 22:08	1
Sodium	94		58	8.6	mg/Kg	☼	09/26/17 16:04	09/27/17 22:08	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	09/26/17 16:04	09/27/17 22:08	1
Vanadium	18		0.29	0.069	mg/Kg	☼	09/26/17 16:04	09/27/17 22:08	1
Zinc	95		1.2	0.51	mg/Kg	☼	09/26/17 16:04	09/27/17 22:08	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		09/29/17 11:25	10/02/17 09:07	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		09/28/17 13:25	09/29/17 11:52	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	36		19	6.2	ug/Kg	☼	09/29/17 07:10	09/29/17 14:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.4		0.20	0.20	SU			09/28/17 16:11	1

Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134479-1

Qualifiers

GC/MS Semi VOA

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

Metals

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.
B	Compound was found in the blank and sample.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
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.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Weston Solutions, Inc.

TestAmerica Job ID: 500-134479-1

Project/Site: IDOT - Eisenhower Expressway - WO 062

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Illinois	NELAP	5	100201	04-30-19

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

Analysis Method	Prep Method	Matrix	Analyte
8260B	5035	Solid	1,3-Dichloropropene, Total
9045D		Solid	pH
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

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: Babu
Company: Weston Solutions
Address: 300 Plaza Cr - Ste 202
Address: Mundelein, IL 60060
Phone: 224-8104-7200
Fax:
E-Mail:

Bill To (optional)
Contact: SAME
Company:
Address:
Address:
Address:
Phone:
Fax: 500-134479 COC
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-134479
Chain of Custody Number: _____
Page 1 of 2
Temperature °C of Cooler: (3.9)(4.3)(4.0)



Client		Client Project #		Preservative		Parameter					Comments	
Project Name		Lab Project #		Sampler		Lab PM						
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOC	SVO C	Total Metals	TOXIC METALS	PH	
Weston Solutions				9		8					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	
IDOT 002 Eisenhower Expressway				8		8						
Frest Park, IL				8		8						
K-Frey				8		8						
K. Wright				8		8						
1		FH-22(0-5)-092217	9/22/17	0735	6	S	X	X	X	X	X	
2		FH-22(5-10)-092217		0740	6	S	X	X	X	X	X	
3		FH-22(10-15)-092217		0748	6	S	X	X	X	X	X	
4		FH-22(10-15)-092217D		0748	6	S	X	X	X	X	X	
5		FH-22(15-20)-092217		0757	6	S	X	X	X	X	X	
6		FH-22(0-5)-092217		0813	6	S	X	X	X	X	X	
7		FH-22(5-10)-092217		0829	6	S	X	X	X	X	X	
8		FH-22(10-15)-092217		0835	6	S	X	X	X	X	X	
9		FH-22(15-20)-092217		0844	6	S	X	X	X	X	X	
10		FH-22(20-25)-092217		0855	6	S	X	X	X	X	X	

Turnaround Time Required (Business Days)

___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days 10 Days ___ 15 Days ___ Other

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 <u>[Signature]</u> Company <u>Weston</u>	Date <u>9/22/17</u>	Time <u>1120</u>	Received By <u>[Signature]</u> Company <u>TA</u>	Date <u>9/22/17</u>	Time <u>1120</u>
Relinquished By <u>[Signature]</u> Company <u>TA</u>	Date <u>9/22/17</u>	Time <u>1215</u>	Received By <u>[Signature]</u> Company <u>TA</u>	Date <u>09/22/17</u>	Time <u>1215</u>
Relinquished By Company	Date	Time	Received By Company	Date	Time

Lab Courier
Shipped
Hand Delivered

Matrix Key

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

Client Comments

Lab Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

Report To (optional)

Contact: Babu
 Company: Weston
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: _____

Bill To (optional)

Contact: SAME
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 PO#/Reference#: _____

Chain of Custody Record

Lab Job #: 500-134479

Chain of Custody Number: _____

Page 2 of 2

Temperature °C of Cooler: _____

Client		Client Project #		Preservative							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	
Project Name		Parameter							Comments			
Project Location/State		Lab Project #										
Sampler		Lab PM										
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix						
			Date	Time								
11		FH-26(0-5)-092217	9/22/17	0906	6	S	X	X	X	X	X	
12		FH-26(5-10)-092217		0914	6	S	X	X	X	X	X	
13		FH-26(10-15)-092217		0922	6	S	X	X	X	X	X	
14		FH-26(15-20)-092217		0930	6	S	X	X	X	X	X	
15		FH-26(15-20)-092217D		0930	6	S	X	X	X	X	X	
16		FH-26(20-25)-092217		0943	6	S	X	X	X	X	X	

Turnaround Time Required (Business Days)

___ 1 Day ___ 2 Days ___ 5 Days 7 Days ___ 10 Days ___ 15 Days ___ Other

Requested Due Date _____

Sample Disposal

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

Relinquished By <u>[Signature]</u> Company <u>Weston</u>	Date <u>9/22/17</u>	Time <u>1120</u>	Received By <u>[Signature]</u> Company <u>TA</u>	Date <u>9/22/17</u>	Time <u>1120</u>
Relinquished By <u>[Signature]</u> Company <u>TA</u>	Date <u>9/22/17</u>	Time <u>1215</u>	Received By <u>[Signature]</u> Company <u>TA</u>	Date <u>09/22/17</u>	Time <u>1215</u>
Relinquished By _____ Company _____	Date _____	Time _____	Received By _____ Company _____	Date _____	Time _____

Lab Courier

Shipped

Hand Delivered

Matrix Key

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

Client Comments

Lab Comments:



Illinois Environmental Protection Agency

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

Uncontaminated Soil Certification

by Licensed Professional Engineer or Licensed Professional Geologist

for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

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

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

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

I. Source Location Information

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

Project Name: FAI (I-290)-Des Plaines River Pump Station #4 Office Phone Number, if available: _____

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

863 Des Plaines Ave. (ISGS Site No. 2215V-1 - INSIDE EARTH RETENTION SYSTEM FROM 635-623 FT ASL)

City: Forest Park State: IL Zip Code: _____

County: Cook Township: _____

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

Latitude: 41.87151 Longitude: - 87.82642

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

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

Estimated Volume of debris (cu. Yd.): 7,226

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: _____

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@illinois.gov

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: _____

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@illinois.gov

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

Uncontaminated Soil Certification

III. Basis for Certification and Attachments

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

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

LOCATIONS FH-8, FH-9, FH-11 THROUGH FH-13, AND FH-15 THROUGH FH-17 WERE SAMPLED ADJACENT TO ISGS SITE No. 2215V-1, FROM 635 TO 623 FT ASL. 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: 500-134187-1, JOB ID: 500-134343-1, JOB ID: 500-134344-1, JOB ID: 500-134432-1, AND JOB ID: 500-134433-1. 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, Margaret Doheny-Skubic, 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.

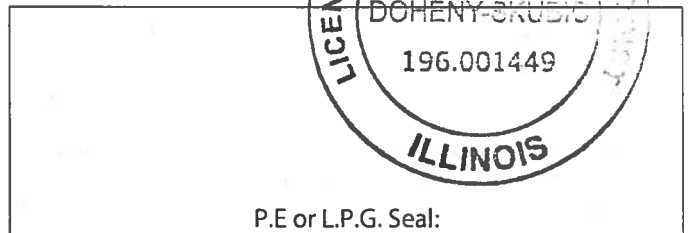
Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Weston Solutions, Inc.
Street Address: 300 Circle Plaza; Suite 202
City: Mundelein State: IL Zip Code: 60060
Phone: (224) 864-7234

Margaret Doheny-Skubic, P.G.
Printed Name:


Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Apr 22, 2019
Date:



Summary Table of ISGS Site No. 2215V-1
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results - INSIDE EARTH RETENTION SYSTEM - 635-623 FT BGS
Illinois Department of Transportation
FAI (I-290): Eisenhower Expressway - Des Plaines River Pump Station #4
Forest Park, Cook County, Illinois

Field Sample ID	FH-8(0-5)-092017	FH-8(5-10)-092017	FH-9(0-5)-092017	FH-9(5-10)-092017	FH-9(5-10)-092017D	Soil Reference Concentrations ^A
Sample Date	9/20/2017	9/20/2017	9/20/2017	9/20/2017	9/20/2017	
Location ID	FH-8	FH-8	FH-9	FH-9	FH-9	
Depth	0 - 5	5 - 10	0 - 5	5 - 10	5 - 10	
ISGS Site No.	2215V-1	2215V-1	2215V-1	2215V-1	2215V-1	
Parameter						
Laboratory pH (s.u.)	7.9	7.9	7.7	8	8.1	<6.25,>9.0
VOCs (ug/kg)						
Acetone	36	34	ND	17	35	25000
Chloroform	ND	ND	ND	ND	ND	300
Methyl ethyl ketone	ND	ND	ND	ND	ND	---
SVOCs (ug/kg)						
2-Methylnaphthalene	ND	13 J	ND	ND	ND	---
Acenaphthene	12 J	90	21 J	ND	ND	570000
Acenaphthylene	ND	ND	ND	ND	ND	---
Anthracene	27 J	170	47	ND	ND	1.20E+07
Benzo(a)anthracene	93	510	160	17 J	24 J	900 / 1100 / 1800
Benzo(a)pyrene	95	510	170	20 J	28 J	90 / 1300 / 2100
Benzo(b)fluoranthene	140	780	260	24 J	41	900 / 1500 / 2100
Benzo(g,h,i)perylene	63	290	82	ND	15 J	---
Benzo(k)fluoranthene	61	260	110	12 J	21 J	9000
Carbazole	ND	130 J	ND	ND	ND	600
Chrysene	110	590	190	22 J	31 J	88000
Dibenzo(a,h)anthracene	19 J	76	23 J	ND	8.7 J	90 / 200 420
Dibenzofuran	ND	52 J	ND	ND	ND	---
Fluoranthene	230	1300	410	37 J	59	3100000
Fluorene	12 J	97	23 J	ND	ND	560000
Indeno(1,2,3-cd)pyrene	56	280	75	12 J	16 J	900 / 900 / 1600
Naphthalene, SVOC	ND	15 J	ND	ND	ND	1800
Phenanthrene	140	900	250	20 J	30 J	---
Pyrene	190	1000	320	32 J	51	2300000
Total Metals (mg/kg)						
Antimony, Total	ND	ND	ND	ND	ND	5
Arsenic, Total	11	7.5	9	8.1	7.2	11.3 / 13
Barium, Total	69	50	48	58	53	1500
Beryllium, Total	0.56	0.61	0.65	0.76	0.78	22
Cadmium, Total	ND	ND	ND	ND	ND	5.2
Calcium, Total	11000 B	19000 B	66000 B	24000 B	28000 B	---
Chromium, Total	15	15	16	19	19	21
Cobalt, Total	14	11	17	14	13	20
Copper, Total	24	23	27	27	27	2900
Iron, Total	24000	18000	20000	23000	22000	15000 / 15900
Lead, Total	20	27	18	17	17	107
Magnesium, Total	8000	12000	19000	15000	16000	325000
Manganese, Total	510	340	550	440	370	630 / 636
Mercury, Total	0.033	0.048	0.034	0.03	0.036	0.89
Nickel, Total	31	27	45	35	34	100
Potassium, Total	1500	1700	2200	2300	2600	---
Selenium, Total	ND	ND	ND	ND	ND	1.3
Silver, Total	ND	ND	ND	ND	ND	4.4
Sodium, Total	70	82	92	92	100	---
Thallium, Total	ND	ND	0.37 J	ND	ND	2.6
Vanadium, Total	21	21	20	24	24	550
Zinc, Total	65	66	62	65	61	5100

Summary Table of ISGS Site No. 2215V-1
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results - INSIDE EARTH RETENTION SYSTEM - 635-623 FT BGS
Illinois Department of Transportation
FAI (I-290): Eisenhower Expressway - Des Plaines River Pump Station #4
Forest Park, Cook County, Illinois

Field Sample ID	FH-8(0-5)-092017	FH-8(5-10)-092017	FH-9(0-5)-092017	FH-9(5-10)-092017	FH-9(5-10)-092017D	Soil Reference Concentrations ^A
Sample Date	9/20/2017	9/20/2017	9/20/2017	9/20/2017	9/20/2017	
Location ID	FH-8	FH-8	FH-9	FH-9	FH-9	
Depth	0 - 5	5 - 10	0 - 5	5 - 10	5 - 10	
ISGS Site No.	2215V-1	2215V-1	2215V-1	2215V-1	2215V-1	
Parameter						
TCLP Metals (mg/l)						
Barium, TCLP	0.36 J	0.4 J	0.35 J	0.32 J	0.33 J	2
Cadmium, TCLP	0.0022 J	0.0022 J	ND	ND	ND	0.005
Cobalt, TCLP	0.026	0.032	ND	ND	ND	1
Copper, TCLP	ND	ND	ND	ND	ND	0.65
Lead, TCLP	ND	ND	ND	ND	ND	0.0075
Manganese, TCLP	6.8	8.3	0.1	1.8	2.3	0.15
Nickel, TCLP	0.026	0.031	ND	0.016 J	0.018 J	0.1
Zinc, TCLP	ND	ND	ND	ND	ND	5
SPLP Metals (mg/l)						
Barium, SPLP	0.098 J	0.16 J	0.14 J	0.11 J	0.11 J	2
Chromium, SPLP	ND	0.017 J	0.021 J	0.013 J	ND	0.1
Copper, SPLP	0.044	0.039	0.033	0.022 J	0.055	0.65
Iron, SPLP	2	13	17	7.4 J	4.3 J	5
Lead, SPLP	ND	0.022	0.013	ND	ND	0.0075
Manganese, SPLP	0.14	0.45	0.089	0.095	0.075	0.15
Nickel, SPLP	ND	0.015 J	0.017 J	ND	ND	0.1
Zinc, SPLP	0.062 J	0.089 J	0.083 J	0.066 J	0.078 J	5

Summary Table of ISGS Site No. 2215V-1
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results - INSIDE EARTH RETENTION SYSTEM - 635-623 FT BGS
Illinois Department of Transportation
FAI (I-290): Eisenhower Expressway - Des Plaines River Pump Station #4
Forest Park, Cook County, Illinois

Field Sample ID	FH-11(0-5)-091817	FH-11(5-10)-091817	FH-12(0-5)-092117	FH-12(5-10)-092117	FH-12(5-10)-092117D	Soil Reference Concentrations ^A
Sample Date	9/18/2017	9/18/2017	9/21/2017	9/21/2017	9/21/2017	
Location ID	FH-11	FH-11	FH-12	FH-12	FH-12	
Depth	0 - 5	5 - 10	0 - 5	5 - 10	5 - 10	
ISGS Site No.	2215V-1	2215V-1	2215V-1	2215V-1	2215V-1	
Parameter						
Laboratory pH (s.u.)	8.3	8.3	8	8.1	8.1	<6.25,>9.0
VOCs (ug/kg)						
Acetone	1400	72	ND	47 J	39 J	25000
Chloroform	2.7	ND	ND	ND	ND	300
Methyl ethyl ketone	11	ND	ND	ND	ND	---
SVOCs (ug/kg)						
2-Methylnaphthalene	ND	ND	ND	ND	18 J	---
Acenaphthene	24 J	ND	ND	25 J	51	570000
Acenaphthylene	13 J	ND	ND	7.9 J	15 J	---
Anthracene	100	15 J	15 J	120 J	240 J	1.20E+07
Benzo(a)anthracene	470	74	59	270 J	590 J	900 / 1100 / 1800
Benzo(a)pyrene	510	79	60	250 J	530 J	90 / 1300 / 2100
Benzo(b)fluoranthene	710	110	79	300 J	740 J	900 / 1500 / 2100
Benzo(g,h,i)perylene	180	35 J	37 J	110 J	200 J	---
Benzo(k)fluoranthene	230	47	30 J	150 J	290 J	9000
Carbazole	ND	ND	ND	ND	100 J	600
Chrysene	570	92	72	290 J	630 J	88000
Dibenzo(a,h)anthracene	56	ND	ND	33 J	65	90 / 200 420
Dibenzofuran	ND	ND	ND	ND	53 J	---
Fluoranthene	1100	190	140	670 J	1400 J	3100000
Fluorene	24 J	ND	6.2 J	52	100	560000
Indeno(1,2,3-cd)pyrene	190	32 J	31 J	120 J	210	900 / 900 / 1600
Naphthalene, SVOC	8 J	ND	ND	ND	15 J	1800
Phenanthrene	480	76	82	520 J	1100 J	---
Pyrene	1000	150	100	550 J	1200 J	2300000
Total Metals (mg/kg)						
Antimony, Total	ND	ND	0.27 J	0.52 J	0.33 J	5
Arsenic, Total	8.2	7.9	8.4	9.5	8.5	11.3 / 13
Barium, Total	66	62	48	46	47	1500
Beryllium, Total	0.68	0.64	0.6	0.59	0.57	22
Cadmium, Total	ND	ND	0.18	0.19	0.2	5.2
Calcium, Total	14000 B	16000 B	23000 B	63000 J	28000 J	---
Chromium, Total	18	17	16	15	15	21
Cobalt, Total	15	13	15	13	13	20
Copper, Total	27	30	27	26	26	2900
Iron, Total	21000 B	19000 B	20000 B	18000 B	19000 B	15000 / 15900
Lead, Total	29	28	21	24	24	107
Magnesium, Total	11000 B	11000 B	16000 B	25000 B	16000 B	325000
Manganese, Total	500 B	570 B	580 B	380 B	410 B	630 / 636
Mercury, Total	0.045	0.041	0.034	0.047	0.039	0.89
Nickel, Total	31	31	35	30	31	100
Potassium, Total	1900	1900	1600	1500	1500	---
Selenium, Total	ND	0.4 J	0.44 J	0.45 J	ND	1.3
Silver, Total	ND	ND	ND	ND	ND	4.4
Sodium, Total	81	80	79	91	85	---
Thallium, Total	ND	ND	ND	ND	ND	2.6
Vanadium, Total	24	23	19	19	19	550
Zinc, Total	72	63	61	63	63	5100

Summary Table of ISGS Site No. 2215V-1
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results - INSIDE EARTH RETENTION SYSTEM - 635-623 FT BGS
Illinois Department of Transportation
FAI (I-290): Eisenhower Expressway - Des Plaines River Pump Station #4
Forest Park, Cook County, Illinois

Field Sample ID	FH-11(0-5)-091817	FH-11(5-10)-091817	FH-12(0-5)-092117	FH-12(5-10)-092117	FH-12(5-10)-092117D	Soil Reference Concentrations ^A
Sample Date	9/18/2017	9/18/2017	9/21/2017	9/21/2017	9/21/2017	
Location ID	FH-11	FH-11	FH-12	FH-12	FH-12	
Depth	0 - 5	5 - 10	0 - 5	5 - 10	5 - 10	
ISGS Site No.	2215V-1	2215V-1	2215V-1	2215V-1	2215V-1	
Parameter						
TCLP Metals (mg/l)						
Barium, TCLP	0.35 J	0.42 J	0.26 J	0.39 J	0.4 J	2
Cadmium, TCLP	0.0024 J	0.0028 J	ND	0.0022 J	ND	0.005
Cobalt, TCLP	0.024 J	0.053	ND	0.016 J	0.02 J	1
Copper, TCLP	ND	0.012 J	ND	ND	ND	0.65
Lead, TCLP	ND	0.015	ND	ND	ND	0.0075
Manganese, TCLP	5.7	10	0.11	5.5	6.3	0.15
Nickel, TCLP	0.02 J	0.039	ND	0.023 J	0.026	0.1
Zinc, TCLP	0.043 J	0.076 J	ND	0.02 J	ND	5
SPLP Metals (mg/l)						
Barium, SPLP	ND	0.15 J	ND	ND	ND	2
Chromium, SPLP	ND	0.012 J	ND	ND	ND	0.1
Copper, SPLP	0.016 J	0.058	ND	ND	ND	0.65
Iron, SPLP	7.2	5.8	6.1	4.3	4.7	5
Lead, SPLP	ND	0.009	ND	ND	ND	0.0075
Manganese, SPLP	0.03	0.14	0.024 J	0.047	0.087	0.15
Nickel, SPLP	ND	ND	ND	ND	ND	0.1
Zinc, SPLP	0.021 J	0.11 J	ND	0.03 J	ND	5

Summary Table of ISGS Site No. 2215V-1
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results - INSIDE EARTH RETENTION SYSTEM - 635-623 FT BGS
Illinois Department of Transportation
FAI (I-290): Eisenhower Expressway - Des Plaines River Pump Station #4
Forest Park, Cook County, Illinois

Field Sample ID	FH-13(0-5)-092017	FH-13(5-10)-092017	FH-15(0-5)-092117	FH-15(5-10)-092117	FH-16(0-5)-091817	Soil Reference Concentrations ^A
Sample Date	9/20/2017	9/20/2017	9/21/2017	9/21/2017	9/18/2017	
Location ID	FH-13	FH-13	FH-15	FH-15	FH-16	
Depth	0 - 5	5 - 10	0 - 5	5 - 10	0 - 5	
ISGS Site No.	2215V-1	2215V-1	2215V-1	2215V-1	2215V-1	
Parameter						
Laboratory pH (s.u.)	8	8.1	7.9	7.8	8.2	<6.25,>9.0
VOCs (ug/kg)						
Acetone	ND	24	50 J	31 J	51	25000
Chloroform	ND	ND	ND	ND	ND	300
Methyl ethyl ketone	ND	ND	ND	ND	ND	---
SVOCs (ug/kg)						
2-Methylnaphthalene	ND	ND	ND	ND	ND	---
Acenaphthene	11 J	8 J	ND	ND	ND	570000
Acenaphthylene	5.1 J	ND	ND	ND	ND	---
Anthracene	38	42	ND	12 J	8.9 J	1.20E+07
Benzo(a)anthracene	140	130	ND	46	49	900 / 1100 / 1800
Benzo(a)pyrene	130	120	8.7 J	46	55	90 / 1300 / 2100
Benzo(b)fluoranthene	180	160	11 J	58	73	900 / 1500 / 2100
Benzo(g,h,i)perylene	72 J-	74	ND	22 J	45 J-	---
Benzo(k)fluoranthene	71	51	ND	28 J	24 J	9000
Carbazole	ND	ND	ND	ND	ND	600
Chrysene	150	140	ND	52	61	88000
Dibenzo(a,h)anthracene	20 J	17 J	ND	ND	ND	90 / 200 420
Dibenzofuran	ND	ND	ND	ND	ND	---
Fluoranthene	350	310	13 J	110	110	3100000
Fluorene	21 J	13 J	ND	ND	ND	560000
Indeno(1,2,3-cd)pyrene	69 J-	67	ND	24 J	34 J	900 / 900 / 1600
Naphthalene, SVOC	8.4 J	ND	ND	ND	ND	1800
Phenanthrene	230	190	7.8 J	61	53	---
Pyrene	270	260	ND	71	93	2300000
Total Metals (mg/kg)						
Antimony, Total	0.38 J	ND	ND	0.31 J	ND	5
Arsenic, Total	8.9	12	9.6	12	11 J	11.3 / 13
Barium, Total	46	51	36	53	52	1500
Beryllium, Total	0.65	0.71	0.55	0.64	0.67	22
Cadmium, Total	ND	0.28 B	0.17	0.27	ND	5.2
Calcium, Total	15000 B	29000 B	28000 B	25000 B	25000 J	---
Chromium, Total	14	16	14	16	17	21
Cobalt, Total	14	20	13	17	16 J	20
Copper, Total	26	33	30	29	32 J-	2900
Iron, Total	19000 B	22000 B	20000 B	21000 B	23000 J	15000 / 15900
Lead, Total	22	23	19	26	23 J	107
Magnesium, Total	11000	20000	19000 B	18000 B	18000 J	325000
Manganese, Total	390	740	410 B	510 B	530 J	630 / 636
Mercury, Total	0.045	0.015 J	0.04	0.049	0.034	0.89
Nickel, Total	31	37	31	37	39 J	100
Potassium, Total	1700	2100	1500	1700	1900 J+	---
Selenium, Total	ND	0.79	ND	ND	0.39 J	1.3
Silver, Total	ND	ND	ND	ND	ND	4.4
Sodium, Total	76	110	73	79	110	---
Thallium, Total	ND	ND	0.36 J	ND	ND	2.6
Vanadium, Total	20	23	18	21	22	550
Zinc, Total	65	58	60	64	66 J-	5100

Summary Table of ISGS Site No. 2215V-1
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results - INSIDE EARTH RETENTION SYSTEM - 635-623 FT BGS
Illinois Department of Transportation
FAI (I-290): Eisenhower Expressway - Des Plaines River Pump Station #4
Forest Park, Cook County, Illinois

Field Sample ID	FH-13(0-5)-092017	FH-13(5-10)-092017	FH-15(0-5)-092117	FH-15(5-10)-092117	FH-16(0-5)-091817	Soil Reference Concentrations ^A
Sample Date	9/20/2017	9/20/2017	9/21/2017	9/21/2017	9/18/2017	
Location ID	FH-13	FH-13	FH-15	FH-15	FH-16	
Depth	0 - 5	5 - 10	0 - 5	5 - 10	0 - 5	
ISGS Site No.	2215V-1	2215V-1	2215V-1	2215V-1	2215V-1	
Parameter						
TCLP Metals (mg/l)						
Barium, TCLP	0.31 J	0.32 J	0.28 J	0.47 J	0.3 J	2
Cadmium, TCLP	0.0025 J	0.0029 J	ND	0.003 J	ND	0.005
Cobalt, TCLP	ND	ND	0.018 J	0.048	ND	1
Copper, TCLP	ND	ND	ND	0.012 J	0.013 J	0.65
Lead, TCLP	ND	0.011	ND	ND	ND	0.0075
Manganese, TCLP	0.73	1.2	4	13	2.3	0.15
Nickel, TCLP	ND	0.018 J	0.026	0.039	0.012 J	0.1
Zinc, TCLP	ND	ND	ND	0.03 J	0.028 J	5
SPLP Metals (mg/l)						
Barium, SPLP	0.097 J	0.14 J	ND	ND	ND	2
Chromium, SPLP	ND	0.024 J	0.012 J	ND	ND	0.1
Copper, SPLP	0.038	0.041	ND	ND	ND	0.65
Iron, SPLP	5.9	18	10	1.7	4.2	5
Lead, SPLP	ND	0.013	ND	ND	ND	0.0075
Manganese, SPLP	0.047	0.09	0.06	0.098	0.023 J	0.15
Nickel, SPLP	ND	0.019 J	0.011 J	ND	ND	0.1
Zinc, SPLP	0.079 J	0.1 J	0.024 J	ND	ND	5

Summary Table of ISGS Site No. 2215V-1
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results - INSIDE EARTH RETENTION SYSTEM - 635-623 FT BGS
Illinois Department of Transportation
FAI (I-290): Eisenhower Expressway - Des Plaines River Pump Station #4
Forest Park, Cook County, Illinois

Field Sample ID	FH-16(5-10)-091817	FH-17(0-5)-092117	FH-17(5-10)-092117	Soil Reference Concentrations ^A
Sample Date	9/18/2017	9/21/2017	9/21/2017	
Location ID	FH-16	FH-17	FH-17	
Depth	5 - 10	0 - 5	5 - 10	
ISGS Site No.	2215V-1	2215V-1	2215V-1	
Parameter				
Laboratory pH (s.u.)	8.3	8.2	8.1	<6.25,>9.0
VOCs (ug/kg)				
Acetone	42	35	20	25000
Chloroform	ND	ND	ND	300
Methyl ethyl ketone	ND	ND	ND	---
SVOCs (ug/kg)				
2-Methylnaphthalene	17 J	ND	ND	---
Acenaphthene	ND	ND	11 J	570000
Acenaphthylene	ND	ND	9.7 J	---
Anthracene	8 J	8.3 J	52	1.20E+07
Benzo(a)anthracene	31 J	40	190	900 / 1100 / 1800
Benzo(a)pyrene	34 J	39	170	90 / 1300 / 2100
Benzo(b)fluoranthene	41	55	230	900 / 1500 / 2100
Benzo(g,h,i)perylene	31 J	26 J	94	---
Benzo(k)fluoranthene	17 J	25 J	87	9000
Carbazole	ND	ND	ND	600
Chrysene	39 J	46	200	88000
Dibenzo(a,h)anthracene	ND	ND	21 J	90 / 200 420
Dibenzofuran	ND	ND	ND	---
Fluoranthene	70	87	460	3100000
Fluorene	ND	ND	16 J	560000
Indeno(1,2,3-cd)pyrene	23 J	24 J	78	900 / 900 / 1600
Naphthalene, SVOC	18 J	ND	ND	1800
Phenanthrene	49	49	250	---
Pyrene	43	75	380	2300000
Total Metals (mg/kg)				
Antimony, Total	ND	0.26 J	0.36 J	5
Arsenic, Total	7.2	11	9.2	11.3 / 13
Barium, Total	56	70	49	1500
Beryllium, Total	0.69	0.72	0.73	22
Cadmium, Total	ND	0.25 B	ND	5.2
Calcium, Total	29000 B	19000 B	23000 B	---
Chromium, Total	20	16	17	21
Cobalt, Total	14	18	14	20
Copper, Total	27	26	27	2900
Iron, Total	21000 B	21000	20000	15000 / 15900
Lead, Total	16	21	23	107
Magnesium, Total	22000 B	14000	15000	325000
Manganese, Total	510 B	800	430	630 / 636
Mercury, Total	0.041	0.046	0.03	0.89
Nickel, Total	35	35	31	100
Potassium, Total	2600	1800	2100	---
Selenium, Total	ND	ND	ND	1.3
Silver, Total	ND	ND	ND	4.4
Sodium, Total	100	110	110	---
Thallium, Total	ND	ND	ND	2.6
Vanadium, Total	24	24	25	550
Zinc, Total	61	62	66	5100

Summary Table of ISGS Site No. 2215V-1
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results - INSIDE EARTH RETENTION SYSTEM - 635-623 FT BGS
Illinois Department of Transportation
FAI (I-290): Eisenhower Expressway - Des Plaines River Pump Station #4
Forest Park, Cook County, Illinois

Field Sample ID	FH-16(5-10)-091817	FH-17(0-5)-092117	FH-17(5-10)-092117	Soil Reference Concentrations ^A
Sample Date	9/18/2017	9/21/2017	9/21/2017	
Location ID	FH-16	FH-17	FH-17	
Depth	5 - 10	0 - 5	5 - 10	
ISGS Site No.	2215V-1	2215V-1	2215V-1	
Parameter				
TCLP Metals (mg/l)				
Barium, TCLP	0.39 J	0.32 J	0.37 J	2
Cadmium, TCLP	0.0023 J	ND	ND	0.005
Cobalt, TCLP	0.055	ND	0.024 J	1
Copper, TCLP	ND	ND	ND	0.65
Lead, TCLP	ND	ND	ND	0.0075
Manganese, TCLP	15	4.7	7	0.15
Nickel, TCLP	0.053	0.017 J	0.025	0.1
Zinc, TCLP	ND	ND	0.02 J	5
SPLP Metals (mg/l)				
Barium, SPLP	ND	0.067 J	0.059 J	2
Chromium, SPLP	ND	0.016 J	0.012 J	0.1
Copper, SPLP	ND	0.014 J	0.042	0.65
Iron, SPLP	1.5	11	9.5	5
Lead, SPLP	ND	0.0086	0.011	0.0075
Manganese, SPLP	0.12	0.062	0.068	0.15
Nickel, SPLP	ND	ND	ND	0.1
Zinc, SPLP	ND	0.024 J	0.044 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.

ND - Constituent not detected above the reporting limit.

B - Constituent detected in the laboratory blank and investigative samples.

J - Estimated concentration.

J+ - Estimated concentration, biased high.

J- - Estimated concentration, biased low.

 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: 500-134187-1

Client Project/Site: IDOT - Eisenhower Expressway - WO 062

For:

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

Attn: Mr. S. Babusukumar



Authorized for release by:
9/26/2017 4:01:03 PM

Richard Wright, Senior Project Manager
(708)534-5200
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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134187-1

Client Sample ID: FH-16(0-5)-091817

Lab Sample ID: 500-134187-1

Date Collected: 09/18/17 08:36

Matrix: Solid

Date Received: 09/18/17 17:35

Percent Solids: 86.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	51		19	8.1	ug/Kg	☼	09/19/17 08:37	09/20/17 13:08	1
Benzene	<1.9		1.9	0.48	ug/Kg	☼	09/19/17 08:37	09/20/17 13:08	1
Bromodichloromethane	<1.9		1.9	0.38	ug/Kg	☼	09/19/17 08:37	09/20/17 13:08	1
Bromoform	<1.9		1.9	0.55	ug/Kg	☼	09/19/17 08:37	09/20/17 13:08	1
Bromomethane	<4.7		4.7	1.8	ug/Kg	☼	09/19/17 08:37	09/20/17 13:08	1
Carbon disulfide	<4.7		4.7	0.97	ug/Kg	☼	09/19/17 08:37	09/20/17 13:08	1
Carbon tetrachloride	<1.9		1.9	0.54	ug/Kg	☼	09/19/17 08:37	09/20/17 13:08	1
Chlorobenzene	<1.9		1.9	0.69	ug/Kg	☼	09/19/17 08:37	09/20/17 13:08	1
Chloroethane	<4.7		4.7	1.4	ug/Kg	☼	09/19/17 08:37	09/20/17 13:08	1
Chloroform	<1.9		1.9	0.65	ug/Kg	☼	09/19/17 08:37	09/20/17 13:08	1
Chloromethane	<4.7		4.7	1.9	ug/Kg	☼	09/19/17 08:37	09/20/17 13:08	1
cis-1,2-Dichloroethene	<1.9		1.9	0.52	ug/Kg	☼	09/19/17 08:37	09/20/17 13:08	1
cis-1,3-Dichloropropene	<1.9		1.9	0.56	ug/Kg	☼	09/19/17 08:37	09/20/17 13:08	1
Dibromochloromethane	<1.9		1.9	0.61	ug/Kg	☼	09/19/17 08:37	09/20/17 13:08	1
1,1-Dichloroethane	<1.9		1.9	0.64	ug/Kg	☼	09/19/17 08:37	09/20/17 13:08	1
1,2-Dichloroethane	<4.7		4.7	1.5	ug/Kg	☼	09/19/17 08:37	09/20/17 13:08	1
1,1-Dichloroethene	<1.9		1.9	0.64	ug/Kg	☼	09/19/17 08:37	09/20/17 13:08	1
1,2-Dichloropropane	<1.9		1.9	0.48	ug/Kg	☼	09/19/17 08:37	09/20/17 13:08	1
1,3-Dichloropropene, Total	<1.9		1.9	0.66	ug/Kg	☼	09/19/17 08:37	09/20/17 13:08	1
Ethylbenzene	<1.9		1.9	0.89	ug/Kg	☼	09/19/17 08:37	09/20/17 13:08	1
2-Hexanone	<4.7		4.7	1.5	ug/Kg	☼	09/19/17 08:37	09/20/17 13:08	1
Methylene Chloride	<4.7		4.7	1.8	ug/Kg	☼	09/19/17 08:37	09/20/17 13:08	1
Methyl Ethyl Ketone	<4.7		4.7	2.1	ug/Kg	☼	09/19/17 08:37	09/20/17 13:08	1
methyl isobutyl ketone	<4.7		4.7	1.4	ug/Kg	☼	09/19/17 08:37	09/20/17 13:08	1
Methyl tert-butyl ether	<1.9		1.9	0.55	ug/Kg	☼	09/19/17 08:37	09/20/17 13:08	1
Styrene	<1.9		1.9	0.56	ug/Kg	☼	09/19/17 08:37	09/20/17 13:08	1
1,1,2,2-Tetrachloroethane	<1.9		1.9	0.60	ug/Kg	☼	09/19/17 08:37	09/20/17 13:08	1
Tetrachloroethene	<1.9		1.9	0.64	ug/Kg	☼	09/19/17 08:37	09/20/17 13:08	1
Toluene	<1.9		1.9	0.47	ug/Kg	☼	09/19/17 08:37	09/20/17 13:08	1
trans-1,2-Dichloroethene	<1.9		1.9	0.83	ug/Kg	☼	09/19/17 08:37	09/20/17 13:08	1
trans-1,3-Dichloropropene	<1.9		1.9	0.66	ug/Kg	☼	09/19/17 08:37	09/20/17 13:08	1
1,1,1-Trichloroethane	<1.9		1.9	0.63	ug/Kg	☼	09/19/17 08:37	09/20/17 13:08	1
1,1,2-Trichloroethane	<1.9		1.9	0.80	ug/Kg	☼	09/19/17 08:37	09/20/17 13:08	1
Trichloroethene	<1.9		1.9	0.63	ug/Kg	☼	09/19/17 08:37	09/20/17 13:08	1
Vinyl chloride	<1.9		1.9	0.83	ug/Kg	☼	09/19/17 08:37	09/20/17 13:08	1
Xylenes, Total	<3.7		3.7	0.60	ug/Kg	☼	09/19/17 08:37	09/20/17 13:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		75 - 131	09/19/17 08:37	09/20/17 13:08	1
Dibromofluoromethane	98		75 - 126	09/19/17 08:37	09/20/17 13:08	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	09/19/17 08:37	09/20/17 13:08	1
Toluene-d8 (Surr)	94		75 - 124	09/19/17 08:37	09/20/17 13:08	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	☼	09/22/17 08:26	09/25/17 12:36	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	09/22/17 08:26	09/25/17 12:36	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	09/22/17 08:26	09/25/17 12:36	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	09/22/17 08:26	09/25/17 12:36	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	09/22/17 08:26	09/25/17 12:36	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134187-1

Client Sample ID: FH-16(0-5)-091817

Lab Sample ID: 500-134187-1

Date Collected: 09/18/17 08:36

Matrix: Solid

Date Received: 09/18/17 17:35

Percent Solids: 86.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	85	ug/Kg	☼	09/22/17 08:26	09/25/17 12:36	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	09/22/17 08:26	09/25/17 12:36	1
2,4-Dichlorophenol	<370		370	89	ug/Kg	☼	09/22/17 08:26	09/25/17 12:36	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	09/22/17 08:26	09/25/17 12:36	1
2,4-Dinitrophenol	<760	F1	760	660	ug/Kg	☼	09/22/17 08:26	09/25/17 12:36	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	09/22/17 08:26	09/25/17 12:36	1
2,6-Dinitrotoluene	<190		190	74	ug/Kg	☼	09/22/17 08:26	09/25/17 12:36	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	09/22/17 08:26	09/25/17 12:36	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	09/22/17 08:26	09/25/17 12:36	1
2-Methylnaphthalene	<76		76	6.9	ug/Kg	☼	09/22/17 08:26	09/25/17 12:36	1
2-Methylphenol	<190		190	60	ug/Kg	☼	09/22/17 08:26	09/25/17 12:36	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	09/22/17 08:26	09/25/17 12:36	1
2-Nitrophenol	<370		370	88	ug/Kg	☼	09/22/17 08:26	09/25/17 12:36	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	09/22/17 08:26	09/25/17 12:36	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	09/22/17 08:26	09/25/17 12:36	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	09/22/17 08:26	09/25/17 12:36	1
4,6-Dinitro-2-methylphenol	<760	F1	760	300	ug/Kg	☼	09/22/17 08:26	09/25/17 12:36	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	09/22/17 08:26	09/25/17 12:36	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	09/22/17 08:26	09/25/17 12:36	1
4-Chloroaniline	<760		760	180	ug/Kg	☼	09/22/17 08:26	09/25/17 12:36	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	09/22/17 08:26	09/25/17 12:36	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	09/22/17 08:26	09/25/17 12:36	1
4-Nitrophenol	<760		760	360	ug/Kg	☼	09/22/17 08:26	09/25/17 12:36	1
Acenaphthene	<37		37	6.7	ug/Kg	☼	09/22/17 08:26	09/25/17 12:36	1
Acenaphthylene	<37		37	4.9	ug/Kg	☼	09/22/17 08:26	09/25/17 12:36	1
Anthracene	8.9	J	37	6.3	ug/Kg	☼	09/22/17 08:26	09/25/17 12:36	1
Benzo[a]anthracene	49		37	5.0	ug/Kg	☼	09/22/17 08:26	09/25/17 12:36	1
Benzo[a]pyrene	55		37	7.2	ug/Kg	☼	09/22/17 08:26	09/25/17 12:36	1
Benzo[b]fluoranthene	73		37	8.1	ug/Kg	☼	09/22/17 08:26	09/25/17 12:36	1
Benzo[g,h,i]perylene	45	F1	37	12	ug/Kg	☼	09/22/17 08:26	09/25/17 12:36	1
Benzo[k]fluoranthene	24	J F1	37	11	ug/Kg	☼	09/22/17 08:26	09/25/17 12:36	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	09/22/17 08:26	09/25/17 12:36	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	09/22/17 08:26	09/25/17 12:36	1
Bis(2-ethylhexyl) phthalate	<190		190	68	ug/Kg	☼	09/22/17 08:26	09/25/17 12:36	1
Butyl benzyl phthalate	<190		190	71	ug/Kg	☼	09/22/17 08:26	09/25/17 12:36	1
Carbazole	<190		190	94	ug/Kg	☼	09/22/17 08:26	09/25/17 12:36	1
Chrysene	61		37	10	ug/Kg	☼	09/22/17 08:26	09/25/17 12:36	1
Dibenz(a,h)anthracene	<37		37	7.2	ug/Kg	☼	09/22/17 08:26	09/25/17 12:36	1
Dibenzofuran	<190		190	44	ug/Kg	☼	09/22/17 08:26	09/25/17 12:36	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	09/22/17 08:26	09/25/17 12:36	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	09/22/17 08:26	09/25/17 12:36	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	09/22/17 08:26	09/25/17 12:36	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	09/22/17 08:26	09/25/17 12:36	1
Fluoranthene	110		37	6.9	ug/Kg	☼	09/22/17 08:26	09/25/17 12:36	1
Fluorene	<37		37	5.3	ug/Kg	☼	09/22/17 08:26	09/25/17 12:36	1
Hexachlorobenzene	<76		76	8.7	ug/Kg	☼	09/22/17 08:26	09/25/17 12:36	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	09/22/17 08:26	09/25/17 12:36	1
Hexachlorocyclopentadiene	<760	F1	760	220	ug/Kg	☼	09/22/17 08:26	09/25/17 12:36	1
Hexachloroethane	<190	F1	190	57	ug/Kg	☼	09/22/17 08:26	09/25/17 12:36	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134187-1

Client Sample ID: FH-16(0-5)-091817

Lab Sample ID: 500-134187-1

Date Collected: 09/18/17 08:36

Matrix: Solid

Date Received: 09/18/17 17:35

Percent Solids: 86.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	34	J F1	37	9.7	ug/Kg	☼	09/22/17 08:26	09/25/17 12:36	1
Isophorone	<190		190	42	ug/Kg	☼	09/22/17 08:26	09/25/17 12:36	1
Naphthalene	<37		37	5.8	ug/Kg	☼	09/22/17 08:26	09/25/17 12:36	1
Nitrobenzene	<37		37	9.3	ug/Kg	☼	09/22/17 08:26	09/25/17 12:36	1
N-Nitrosodi-n-propylamine	<76		76	46	ug/Kg	☼	09/22/17 08:26	09/25/17 12:36	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	09/22/17 08:26	09/25/17 12:36	1
Pentachlorophenol	<760		760	600	ug/Kg	☼	09/22/17 08:26	09/25/17 12:36	1
Phenanthrene	53		37	5.2	ug/Kg	☼	09/22/17 08:26	09/25/17 12:36	1
Phenol	<190		190	83	ug/Kg	☼	09/22/17 08:26	09/25/17 12:36	1
Pyrene	93		37	7.4	ug/Kg	☼	09/22/17 08:26	09/25/17 12:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	73		25 - 139				09/22/17 08:26	09/25/17 12:36	1
2-Fluorobiphenyl	95		44 - 121				09/22/17 08:26	09/25/17 12:36	1
2-Fluorophenol	127		46 - 133				09/22/17 08:26	09/25/17 12:36	1
Nitrobenzene-d5	99		41 - 120				09/22/17 08:26	09/25/17 12:36	1
Phenol-d5	112		46 - 125				09/22/17 08:26	09/25/17 12:36	1
Terphenyl-d14	108		35 - 160				09/22/17 08:26	09/25/17 12:36	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		09/20/17 08:27	09/20/17 23:05	1
Barium	0.30	J	0.50	0.050	mg/L		09/20/17 08:27	09/20/17 23:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/20/17 08:27	09/20/17 23:05	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/20/17 08:27	09/20/17 23:05	1
Chromium	<0.025		0.025	0.010	mg/L		09/20/17 08:27	09/20/17 23:05	1
Cobalt	<0.025		0.025	0.010	mg/L		09/20/17 08:27	09/20/17 23:05	1
Copper	0.013	J	0.025	0.010	mg/L		09/20/17 08:27	09/20/17 23:05	1
Iron	<0.40		0.40	0.20	mg/L		09/20/17 08:27	09/20/17 23:05	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/20/17 08:27	09/20/17 23:05	1
Manganese	2.3		0.025	0.010	mg/L		09/20/17 08:27	09/20/17 23:05	1
Nickel	0.012	J	0.025	0.010	mg/L		09/20/17 08:27	09/20/17 23:05	1
Selenium	<0.050		0.050	0.020	mg/L		09/20/17 08:27	09/20/17 23:05	1
Silver	<0.025		0.025	0.010	mg/L		09/20/17 08:27	09/20/17 23:05	1
Zinc	0.028	J	0.50	0.020	mg/L		09/20/17 08:27	09/20/17 23:05	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		09/20/17 16:52	09/21/17 16:12	1
Barium	<0.50		0.50	0.050	mg/L		09/20/17 16:52	09/21/17 16:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/20/17 16:52	09/21/17 16:12	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/20/17 16:52	09/21/17 16:12	1
Chromium	<0.025		0.025	0.010	mg/L		09/20/17 16:52	09/21/17 16:12	1
Cobalt	<0.025		0.025	0.010	mg/L		09/20/17 16:52	09/21/17 16:12	1
Copper	<0.025		0.025	0.010	mg/L		09/20/17 16:52	09/21/17 16:12	1
Iron	4.2		0.40	0.20	mg/L		09/20/17 16:52	09/21/17 16:12	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/20/17 16:52	09/21/17 16:12	1
Manganese	0.023	J	0.025	0.010	mg/L		09/20/17 16:52	09/21/17 16:12	1
Nickel	<0.025		0.025	0.010	mg/L		09/20/17 16:52	09/21/17 16:12	1
Selenium	<0.050		0.050	0.020	mg/L		09/20/17 16:52	09/21/17 16:12	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134187-1

Client Sample ID: FH-16(0-5)-091817

Lab Sample ID: 500-134187-1

Date Collected: 09/18/17 08:36

Matrix: Solid

Date Received: 09/18/17 17:35

Percent Solids: 86.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		09/20/17 16:52	09/21/17 16:12	1
Zinc	<0.50		0.50	0.020	mg/L		09/20/17 16:52	09/21/17 16:12	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	☼	09/19/17 15:43	09/20/17 11:11	1
Arsenic	11	F1 F2	0.57	0.20	mg/Kg	☼	09/19/17 15:43	09/20/17 11:11	1
Barium	52		0.57	0.065	mg/Kg	☼	09/19/17 15:43	09/20/17 11:11	1
Beryllium	0.67		0.23	0.053	mg/Kg	☼	09/19/17 15:43	09/20/17 11:11	1
Cadmium	0.24	B F1	0.11	0.021	mg/Kg	☼	09/19/17 15:43	09/20/17 11:11	1
Calcium	25000	B F2	11	1.9	mg/Kg	☼	09/19/17 15:43	09/20/17 11:11	1
Chromium	17		0.57	0.28	mg/Kg	☼	09/19/17 15:43	09/20/17 11:11	1
Cobalt	16	F1 F2	0.29	0.075	mg/Kg	☼	09/19/17 15:43	09/20/17 11:11	1
Copper	32	F1	0.57	0.16	mg/Kg	☼	09/19/17 15:43	09/20/17 11:11	1
Iron	23000	B F2	11	6.0	mg/Kg	☼	09/19/17 15:43	09/20/17 11:11	1
Lead	23	F2	0.29	0.13	mg/Kg	☼	09/19/17 15:43	09/20/17 11:11	1
Magnesium	18000	B	5.7	2.8	mg/Kg	☼	09/19/17 15:43	09/20/17 11:11	1
Manganese	530	B F2	0.57	0.083	mg/Kg	☼	09/19/17 15:43	09/20/17 11:11	1
Nickel	39	F1 F2	0.57	0.17	mg/Kg	☼	09/19/17 15:43	09/20/17 11:11	1
Potassium	1900	F1	29	10	mg/Kg	☼	09/19/17 15:43	09/20/17 11:11	1
Selenium	0.39	J F1	0.57	0.34	mg/Kg	☼	09/19/17 15:43	09/20/17 11:11	1
Silver	<0.29		0.29	0.074	mg/Kg	☼	09/19/17 15:43	09/20/17 11:11	1
Sodium	110		57	8.5	mg/Kg	☼	09/19/17 15:43	09/20/17 11:11	1
Thallium	<0.57		0.57	0.29	mg/Kg	☼	09/19/17 15:43	09/20/17 11:11	1
Vanadium	22		0.29	0.068	mg/Kg	☼	09/19/17 15:43	09/20/17 11:11	1
Zinc	66	F1	1.1	0.50	mg/Kg	☼	09/19/17 15:43	09/20/17 11:11	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		09/20/17 16:00	09/21/17 11:11	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		09/20/17 16:00	09/21/17 11:57	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	34		18	6.1	ug/Kg	☼	09/21/17 16:00	09/22/17 13:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.2		0.20	0.20	SU			09/23/17 10:28	1

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134187-1

Client Sample ID: FH-16(5-10)-091817

Lab Sample ID: 500-134187-2

Date Collected: 09/18/17 08:44

Matrix: Solid

Date Received: 09/18/17 17:35

Percent Solids: 80.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	42		20	8.9	ug/Kg	☼	09/19/17 08:37	09/20/17 13:34	1
Benzene	<2.0		2.0	0.52	ug/Kg	☼	09/19/17 08:37	09/20/17 13:34	1
Bromodichloromethane	<2.0		2.0	0.41	ug/Kg	☼	09/19/17 08:37	09/20/17 13:34	1
Bromoform	<2.0		2.0	0.59	ug/Kg	☼	09/19/17 08:37	09/20/17 13:34	1
Bromomethane	<5.1		5.1	1.9	ug/Kg	☼	09/19/17 08:37	09/20/17 13:34	1
Carbon disulfide	<5.1		5.1	1.1	ug/Kg	☼	09/19/17 08:37	09/20/17 13:34	1
Carbon tetrachloride	<2.0		2.0	0.59	ug/Kg	☼	09/19/17 08:37	09/20/17 13:34	1
Chlorobenzene	<2.0		2.0	0.75	ug/Kg	☼	09/19/17 08:37	09/20/17 13:34	1
Chloroethane	<5.1		5.1	1.5	ug/Kg	☼	09/19/17 08:37	09/20/17 13:34	1
Chloroform	<2.0		2.0	0.71	ug/Kg	☼	09/19/17 08:37	09/20/17 13:34	1
Chloromethane	<5.1		5.1	2.0	ug/Kg	☼	09/19/17 08:37	09/20/17 13:34	1
cis-1,2-Dichloroethene	<2.0		2.0	0.57	ug/Kg	☼	09/19/17 08:37	09/20/17 13:34	1
cis-1,3-Dichloropropene	<2.0		2.0	0.61	ug/Kg	☼	09/19/17 08:37	09/20/17 13:34	1
Dibromochloromethane	<2.0		2.0	0.67	ug/Kg	☼	09/19/17 08:37	09/20/17 13:34	1
1,1-Dichloroethane	<2.0		2.0	0.70	ug/Kg	☼	09/19/17 08:37	09/20/17 13:34	1
1,2-Dichloroethane	<5.1		5.1	1.6	ug/Kg	☼	09/19/17 08:37	09/20/17 13:34	1
1,1-Dichloroethene	<2.0		2.0	0.70	ug/Kg	☼	09/19/17 08:37	09/20/17 13:34	1
1,2-Dichloropropane	<2.0		2.0	0.53	ug/Kg	☼	09/19/17 08:37	09/20/17 13:34	1
1,3-Dichloropropene, Total	<2.0		2.0	0.71	ug/Kg	☼	09/19/17 08:37	09/20/17 13:34	1
Ethylbenzene	<2.0		2.0	0.97	ug/Kg	☼	09/19/17 08:37	09/20/17 13:34	1
2-Hexanone	<5.1		5.1	1.6	ug/Kg	☼	09/19/17 08:37	09/20/17 13:34	1
Methylene Chloride	<5.1		5.1	2.0	ug/Kg	☼	09/19/17 08:37	09/20/17 13:34	1
Methyl Ethyl Ketone	<5.1		5.1	2.3	ug/Kg	☼	09/19/17 08:37	09/20/17 13:34	1
methyl isobutyl ketone	<5.1		5.1	1.5	ug/Kg	☼	09/19/17 08:37	09/20/17 13:34	1
Methyl tert-butyl ether	<2.0		2.0	0.60	ug/Kg	☼	09/19/17 08:37	09/20/17 13:34	1
Styrene	<2.0		2.0	0.61	ug/Kg	☼	09/19/17 08:37	09/20/17 13:34	1
1,1,2,2-Tetrachloroethane	<2.0		2.0	0.65	ug/Kg	☼	09/19/17 08:37	09/20/17 13:34	1
Tetrachloroethene	<2.0		2.0	0.69	ug/Kg	☼	09/19/17 08:37	09/20/17 13:34	1
Toluene	<2.0		2.0	0.51	ug/Kg	☼	09/19/17 08:37	09/20/17 13:34	1
trans-1,2-Dichloroethene	<2.0		2.0	0.90	ug/Kg	☼	09/19/17 08:37	09/20/17 13:34	1
trans-1,3-Dichloropropene	<2.0		2.0	0.71	ug/Kg	☼	09/19/17 08:37	09/20/17 13:34	1
1,1,1-Trichloroethane	<2.0		2.0	0.68	ug/Kg	☼	09/19/17 08:37	09/20/17 13:34	1
1,1,2-Trichloroethane	<2.0		2.0	0.87	ug/Kg	☼	09/19/17 08:37	09/20/17 13:34	1
Trichloroethene	<2.0		2.0	0.69	ug/Kg	☼	09/19/17 08:37	09/20/17 13:34	1
Vinyl chloride	<2.0		2.0	0.90	ug/Kg	☼	09/19/17 08:37	09/20/17 13:34	1
Xylenes, Total	<4.1		4.1	0.65	ug/Kg	☼	09/19/17 08:37	09/20/17 13:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		75 - 131	09/19/17 08:37	09/20/17 13:34	1
Dibromofluoromethane	97		75 - 126	09/19/17 08:37	09/20/17 13:34	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	09/19/17 08:37	09/20/17 13:34	1
Toluene-d8 (Surr)	94		75 - 124	09/19/17 08:37	09/20/17 13:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<200		200	44	ug/Kg	☼	09/22/17 08:26	09/25/17 13:03	1
1,2-Dichlorobenzene	<200		200	49	ug/Kg	☼	09/22/17 08:26	09/25/17 13:03	1
1,3-Dichlorobenzene	<200		200	46	ug/Kg	☼	09/22/17 08:26	09/25/17 13:03	1
1,4-Dichlorobenzene	<200		200	52	ug/Kg	☼	09/22/17 08:26	09/25/17 13:03	1
2,2'-oxybis[1-chloropropane]	<200		200	47	ug/Kg	☼	09/22/17 08:26	09/25/17 13:03	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134187-1

Client Sample ID: FH-16(5-10)-091817

Lab Sample ID: 500-134187-2

Date Collected: 09/18/17 08:44

Matrix: Solid

Date Received: 09/18/17 17:35

Percent Solids: 80.2

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	93	ug/Kg	☼	09/22/17 08:26	09/25/17 13:03	1
2,4,6-Trichlorophenol	<400		400	140	ug/Kg	☼	09/22/17 08:26	09/25/17 13:03	1
2,4-Dichlorophenol	<400		400	97	ug/Kg	☼	09/22/17 08:26	09/25/17 13:03	1
2,4-Dimethylphenol	<400		400	150	ug/Kg	☼	09/22/17 08:26	09/25/17 13:03	1
2,4-Dinitrophenol	<820		820	720	ug/Kg	☼	09/22/17 08:26	09/25/17 13:03	1
2,4-Dinitrotoluene	<200		200	65	ug/Kg	☼	09/22/17 08:26	09/25/17 13:03	1
2,6-Dinitrotoluene	<200		200	80	ug/Kg	☼	09/22/17 08:26	09/25/17 13:03	1
2-Chloronaphthalene	<200		200	45	ug/Kg	☼	09/22/17 08:26	09/25/17 13:03	1
2-Chlorophenol	<200		200	69	ug/Kg	☼	09/22/17 08:26	09/25/17 13:03	1
2-Methylnaphthalene	17 J		82	7.5	ug/Kg	☼	09/22/17 08:26	09/25/17 13:03	1
2-Methylphenol	<200		200	65	ug/Kg	☼	09/22/17 08:26	09/25/17 13:03	1
2-Nitroaniline	<200		200	55	ug/Kg	☼	09/22/17 08:26	09/25/17 13:03	1
2-Nitrophenol	<400		400	96	ug/Kg	☼	09/22/17 08:26	09/25/17 13:03	1
3 & 4 Methylphenol	<200		200	68	ug/Kg	☼	09/22/17 08:26	09/25/17 13:03	1
3,3'-Dichlorobenzidine	<200		200	57	ug/Kg	☼	09/22/17 08:26	09/25/17 13:03	1
3-Nitroaniline	<400		400	130	ug/Kg	☼	09/22/17 08:26	09/25/17 13:03	1
4,6-Dinitro-2-methylphenol	<820		820	330	ug/Kg	☼	09/22/17 08:26	09/25/17 13:03	1
4-Bromophenyl phenyl ether	<200		200	54	ug/Kg	☼	09/22/17 08:26	09/25/17 13:03	1
4-Chloro-3-methylphenol	<400		400	140	ug/Kg	☼	09/22/17 08:26	09/25/17 13:03	1
4-Chloroaniline	<820		820	190	ug/Kg	☼	09/22/17 08:26	09/25/17 13:03	1
4-Chlorophenyl phenyl ether	<200		200	48	ug/Kg	☼	09/22/17 08:26	09/25/17 13:03	1
4-Nitroaniline	<400		400	170	ug/Kg	☼	09/22/17 08:26	09/25/17 13:03	1
4-Nitrophenol	<820		820	390	ug/Kg	☼	09/22/17 08:26	09/25/17 13:03	1
Acenaphthene	<40		40	7.3	ug/Kg	☼	09/22/17 08:26	09/25/17 13:03	1
Acenaphthylene	<40		40	5.4	ug/Kg	☼	09/22/17 08:26	09/25/17 13:03	1
Anthracene	8.0 J		40	6.8	ug/Kg	☼	09/22/17 08:26	09/25/17 13:03	1
Benzo[a]anthracene	31 J		40	5.5	ug/Kg	☼	09/22/17 08:26	09/25/17 13:03	1
Benzo[a]pyrene	34 J		40	7.9	ug/Kg	☼	09/22/17 08:26	09/25/17 13:03	1
Benzo[b]fluoranthene	41		40	8.8	ug/Kg	☼	09/22/17 08:26	09/25/17 13:03	1
Benzo[g,h,i]perylene	31 J		40	13	ug/Kg	☼	09/22/17 08:26	09/25/17 13:03	1
Benzo[k]fluoranthene	17 J		40	12	ug/Kg	☼	09/22/17 08:26	09/25/17 13:03	1
Bis(2-chloroethoxy)methane	<200		200	42	ug/Kg	☼	09/22/17 08:26	09/25/17 13:03	1
Bis(2-chloroethyl)ether	<200		200	61	ug/Kg	☼	09/22/17 08:26	09/25/17 13:03	1
Bis(2-ethylhexyl) phthalate	<200		200	74	ug/Kg	☼	09/22/17 08:26	09/25/17 13:03	1
Butyl benzyl phthalate	<200		200	77	ug/Kg	☼	09/22/17 08:26	09/25/17 13:03	1
Carbazole	<200		200	100	ug/Kg	☼	09/22/17 08:26	09/25/17 13:03	1
Chrysene	39 J		40	11	ug/Kg	☼	09/22/17 08:26	09/25/17 13:03	1
Dibenz(a,h)anthracene	<40		40	7.9	ug/Kg	☼	09/22/17 08:26	09/25/17 13:03	1
Dibenzofuran	<200		200	48	ug/Kg	☼	09/22/17 08:26	09/25/17 13:03	1
Diethyl phthalate	<200		200	69	ug/Kg	☼	09/22/17 08:26	09/25/17 13:03	1
Dimethyl phthalate	<200		200	53	ug/Kg	☼	09/22/17 08:26	09/25/17 13:03	1
Di-n-butyl phthalate	<200		200	62	ug/Kg	☼	09/22/17 08:26	09/25/17 13:03	1
Di-n-octyl phthalate	<200		200	66	ug/Kg	☼	09/22/17 08:26	09/25/17 13:03	1
Fluoranthene	70		40	7.6	ug/Kg	☼	09/22/17 08:26	09/25/17 13:03	1
Fluorene	<40		40	5.7	ug/Kg	☼	09/22/17 08:26	09/25/17 13:03	1
Hexachlorobenzene	<82		82	9.4	ug/Kg	☼	09/22/17 08:26	09/25/17 13:03	1
Hexachlorobutadiene	<200		200	64	ug/Kg	☼	09/22/17 08:26	09/25/17 13:03	1
Hexachlorocyclopentadiene	<820		820	230	ug/Kg	☼	09/22/17 08:26	09/25/17 13:03	1
Hexachloroethane	<200		200	62	ug/Kg	☼	09/22/17 08:26	09/25/17 13:03	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134187-1

Client Sample ID: FH-16(5-10)-091817

Lab Sample ID: 500-134187-2

Date Collected: 09/18/17 08:44

Matrix: Solid

Date Received: 09/18/17 17:35

Percent Solids: 80.2

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	23	J	40	11	ug/Kg	☼	09/22/17 08:26	09/25/17 13:03	1
Isophorone	<200		200	46	ug/Kg	☼	09/22/17 08:26	09/25/17 13:03	1
Naphthalene	18	J	40	6.3	ug/Kg	☼	09/22/17 08:26	09/25/17 13:03	1
Nitrobenzene	<40		40	10	ug/Kg	☼	09/22/17 08:26	09/25/17 13:03	1
N-Nitrosodi-n-propylamine	<82		82	50	ug/Kg	☼	09/22/17 08:26	09/25/17 13:03	1
N-Nitrosodiphenylamine	<200		200	48	ug/Kg	☼	09/22/17 08:26	09/25/17 13:03	1
Pentachlorophenol	<820		820	650	ug/Kg	☼	09/22/17 08:26	09/25/17 13:03	1
Phenanthrene	49		40	5.7	ug/Kg	☼	09/22/17 08:26	09/25/17 13:03	1
Phenol	<200		200	90	ug/Kg	☼	09/22/17 08:26	09/25/17 13:03	1
Pyrene	43		40	8.1	ug/Kg	☼	09/22/17 08:26	09/25/17 13:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	59		25 - 139				09/22/17 08:26	09/25/17 13:03	1
2-Fluorobiphenyl	96		44 - 121				09/22/17 08:26	09/25/17 13:03	1
2-Fluorophenol	126		46 - 133				09/22/17 08:26	09/25/17 13:03	1
Nitrobenzene-d5	100		41 - 120				09/22/17 08:26	09/25/17 13:03	1
Phenol-d5	109		46 - 125				09/22/17 08:26	09/25/17 13:03	1
Terphenyl-d14	108		35 - 160				09/22/17 08:26	09/25/17 13:03	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		09/20/17 08:27	09/20/17 23:09	1
Barium	0.39	J	0.50	0.050	mg/L		09/20/17 08:27	09/20/17 23:09	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/20/17 08:27	09/20/17 23:09	1
Cadmium	0.0023	J	0.0050	0.0020	mg/L		09/20/17 08:27	09/20/17 23:09	1
Chromium	<0.025		0.025	0.010	mg/L		09/20/17 08:27	09/20/17 23:09	1
Cobalt	0.055		0.025	0.010	mg/L		09/20/17 08:27	09/20/17 23:09	1
Copper	<0.025		0.025	0.010	mg/L		09/20/17 08:27	09/20/17 23:09	1
Iron	<0.40		0.40	0.20	mg/L		09/20/17 08:27	09/20/17 23:09	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/20/17 08:27	09/20/17 23:09	1
Manganese	15		0.025	0.010	mg/L		09/20/17 08:27	09/20/17 23:09	1
Nickel	0.053		0.025	0.010	mg/L		09/20/17 08:27	09/20/17 23:09	1
Selenium	<0.050		0.050	0.020	mg/L		09/20/17 08:27	09/20/17 23:09	1
Silver	<0.025		0.025	0.010	mg/L		09/20/17 08:27	09/20/17 23:09	1
Zinc	<0.50		0.50	0.020	mg/L		09/20/17 08:27	09/20/17 23:09	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		09/20/17 16:52	09/21/17 16:16	1
Barium	<0.50		0.50	0.050	mg/L		09/20/17 16:52	09/21/17 16:16	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/20/17 16:52	09/21/17 16:16	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/20/17 16:52	09/21/17 16:16	1
Chromium	<0.025		0.025	0.010	mg/L		09/20/17 16:52	09/21/17 16:16	1
Cobalt	<0.025		0.025	0.010	mg/L		09/20/17 16:52	09/21/17 16:16	1
Copper	<0.025		0.025	0.010	mg/L		09/20/17 16:52	09/21/17 16:16	1
Iron	1.5		0.40	0.20	mg/L		09/20/17 16:52	09/21/17 16:16	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/20/17 16:52	09/21/17 16:16	1
Manganese	0.12		0.025	0.010	mg/L		09/20/17 16:52	09/21/17 16:16	1
Nickel	<0.025		0.025	0.010	mg/L		09/20/17 16:52	09/21/17 16:16	1
Selenium	<0.050		0.050	0.020	mg/L		09/20/17 16:52	09/21/17 16:16	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134187-1

Client Sample ID: FH-16(5-10)-091817

Lab Sample ID: 500-134187-2

Date Collected: 09/18/17 08:44

Matrix: Solid

Date Received: 09/18/17 17:35

Percent Solids: 80.2

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		09/20/17 16:52	09/21/17 16:16	1
Zinc	<0.50		0.50	0.020	mg/L		09/20/17 16:52	09/21/17 16:16	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.23	mg/Kg	☼	09/19/17 15:43	09/20/17 11:32	1
Arsenic	7.2		0.60	0.20	mg/Kg	☼	09/19/17 15:43	09/20/17 11:32	1
Barium	56		0.60	0.068	mg/Kg	☼	09/19/17 15:43	09/20/17 11:32	1
Beryllium	0.69		0.24	0.056	mg/Kg	☼	09/19/17 15:43	09/20/17 11:32	1
Cadmium	0.18	B	0.12	0.022	mg/Kg	☼	09/19/17 15:43	09/20/17 11:32	1
Calcium	29000	B	12	2.0	mg/Kg	☼	09/19/17 15:43	09/20/17 11:32	1
Chromium	20		0.60	0.30	mg/Kg	☼	09/19/17 15:43	09/20/17 11:32	1
Cobalt	14		0.30	0.078	mg/Kg	☼	09/19/17 15:43	09/20/17 11:32	1
Copper	27		0.60	0.17	mg/Kg	☼	09/19/17 15:43	09/20/17 11:32	1
Iron	21000	B	12	6.2	mg/Kg	☼	09/19/17 15:43	09/20/17 11:32	1
Lead	16		0.30	0.14	mg/Kg	☼	09/19/17 15:43	09/20/17 11:32	1
Magnesium	22000	B	6.0	3.0	mg/Kg	☼	09/19/17 15:43	09/20/17 11:32	1
Manganese	510	B	0.60	0.087	mg/Kg	☼	09/19/17 15:43	09/20/17 11:32	1
Nickel	35		0.60	0.17	mg/Kg	☼	09/19/17 15:43	09/20/17 11:32	1
Potassium	2600		30	11	mg/Kg	☼	09/19/17 15:43	09/20/17 11:32	1
Selenium	<0.60		0.60	0.35	mg/Kg	☼	09/19/17 15:43	09/20/17 11:32	1
Silver	<0.30		0.30	0.077	mg/Kg	☼	09/19/17 15:43	09/20/17 11:32	1
Sodium	100		60	8.9	mg/Kg	☼	09/19/17 15:43	09/20/17 11:32	1
Thallium	<0.60		0.60	0.30	mg/Kg	☼	09/19/17 15:43	09/20/17 11:32	1
Vanadium	24		0.30	0.071	mg/Kg	☼	09/19/17 15:43	09/20/17 11:32	1
Zinc	61		1.2	0.53	mg/Kg	☼	09/19/17 15:43	09/20/17 11:32	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		09/20/17 16:00	09/21/17 11:12	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		09/20/17 16:00	09/21/17 11:58	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	41		19	6.3	ug/Kg	☼	09/21/17 16:00	09/22/17 13:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.3		0.20	0.20	SU			09/23/17 10:30	1

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134187-1

Client Sample ID: FH-11(0-5)-091817

Lab Sample ID: 500-134187-14

Date Collected: 09/18/17 14:08

Matrix: Solid

Date Received: 09/18/17 17:35

Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<2.3		2.3	0.59	ug/Kg	☼	09/19/17 08:37	09/20/17 18:38	1
Bromodichloromethane	<2.3		2.3	0.47	ug/Kg	☼	09/19/17 08:37	09/20/17 18:38	1
Bromoform	<2.3		2.3	0.68	ug/Kg	☼	09/19/17 08:37	09/20/17 18:38	1
Bromomethane	<5.8		5.8	2.2	ug/Kg	☼	09/19/17 08:37	09/20/17 18:38	1
Carbon disulfide	<5.8		5.8	1.2	ug/Kg	☼	09/19/17 08:37	09/20/17 18:38	1
Carbon tetrachloride	<2.3		2.3	0.67	ug/Kg	☼	09/19/17 08:37	09/20/17 18:38	1
Chlorobenzene	<2.3		2.3	0.86	ug/Kg	☼	09/19/17 08:37	09/20/17 18:38	1
Chloroethane	<5.8		5.8	1.7	ug/Kg	☼	09/19/17 08:37	09/20/17 18:38	1
Chloroform	2.7		2.3	0.81	ug/Kg	☼	09/19/17 08:37	09/20/17 18:38	1
Chloromethane	<5.8		5.8	2.3	ug/Kg	☼	09/19/17 08:37	09/20/17 18:38	1
cis-1,2-Dichloroethene	<2.3		2.3	0.65	ug/Kg	☼	09/19/17 08:37	09/20/17 18:38	1
cis-1,3-Dichloropropene	<2.3		2.3	0.70	ug/Kg	☼	09/19/17 08:37	09/20/17 18:38	1
Dibromochloromethane	<2.3		2.3	0.76	ug/Kg	☼	09/19/17 08:37	09/20/17 18:38	1
1,1-Dichloroethane	<2.3		2.3	0.80	ug/Kg	☼	09/19/17 08:37	09/20/17 18:38	1
1,2-Dichloroethane	<5.8		5.8	1.8	ug/Kg	☼	09/19/17 08:37	09/20/17 18:38	1
1,1-Dichloroethene	<2.3		2.3	0.80	ug/Kg	☼	09/19/17 08:37	09/20/17 18:38	1
1,2-Dichloropropane	<2.3		2.3	0.60	ug/Kg	☼	09/19/17 08:37	09/20/17 18:38	1
1,3-Dichloropropene, Total	<2.3		2.3	0.82	ug/Kg	☼	09/19/17 08:37	09/20/17 18:38	1
Ethylbenzene	<2.3		2.3	1.1	ug/Kg	☼	09/19/17 08:37	09/20/17 18:38	1
2-Hexanone	<5.8		5.8	1.8	ug/Kg	☼	09/19/17 08:37	09/20/17 18:38	1
Methylene Chloride	<5.8		5.8	2.3	ug/Kg	☼	09/19/17 08:37	09/20/17 18:38	1
Methyl Ethyl Ketone	11		5.8	2.6	ug/Kg	☼	09/19/17 08:37	09/20/17 18:38	1
methyl isobutyl ketone	<5.8		5.8	1.7	ug/Kg	☼	09/19/17 08:37	09/20/17 18:38	1
Methyl tert-butyl ether	<2.3		2.3	0.68	ug/Kg	☼	09/19/17 08:37	09/20/17 18:38	1
Styrene	<2.3		2.3	0.70	ug/Kg	☼	09/19/17 08:37	09/20/17 18:38	1
1,1,2,2-Tetrachloroethane	<2.3		2.3	0.74	ug/Kg	☼	09/19/17 08:37	09/20/17 18:38	1
Tetrachloroethene	<2.3		2.3	0.79	ug/Kg	☼	09/19/17 08:37	09/20/17 18:38	1
Toluene	<2.3		2.3	0.59	ug/Kg	☼	09/19/17 08:37	09/20/17 18:38	1
trans-1,2-Dichloroethene	<2.3		2.3	1.0	ug/Kg	☼	09/19/17 08:37	09/20/17 18:38	1
trans-1,3-Dichloropropene	<2.3		2.3	0.82	ug/Kg	☼	09/19/17 08:37	09/20/17 18:38	1
1,1,1-Trichloroethane	<2.3		2.3	0.78	ug/Kg	☼	09/19/17 08:37	09/20/17 18:38	1
1,1,2-Trichloroethane	<2.3		2.3	1.0	ug/Kg	☼	09/19/17 08:37	09/20/17 18:38	1
Trichloroethene	<2.3		2.3	0.79	ug/Kg	☼	09/19/17 08:37	09/20/17 18:38	1
Vinyl chloride	<2.3		2.3	1.0	ug/Kg	☼	09/19/17 08:37	09/20/17 18:38	1
Xylenes, Total	<4.7		4.7	0.74	ug/Kg	☼	09/19/17 08:37	09/20/17 18:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		75 - 131	09/19/17 08:37	09/20/17 18:38	1
Dibromofluoromethane	100		75 - 126	09/19/17 08:37	09/20/17 18:38	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	09/19/17 08:37	09/20/17 18:38	1
Toluene-d8 (Surr)	96		75 - 124	09/19/17 08:37	09/20/17 18:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1400		280	98	ug/Kg	☼	09/18/17 14:05	09/23/17 13:46	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		72 - 124	09/18/17 14:05	09/23/17 13:46	50
Dibromofluoromethane	95		75 - 120	09/18/17 14:05	09/23/17 13:46	50
1,2-Dichloroethane-d4 (Surr)	85		75 - 126	09/18/17 14:05	09/23/17 13:46	50

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134187-1

Client Sample ID: FH-11(0-5)-091817

Lab Sample ID: 500-134187-14

Date Collected: 09/18/17 14:08

Matrix: Solid

Date Received: 09/18/17 17:35

Percent Solids: 82.4

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		75 - 120	09/18/17 14:05	09/23/17 13:46	50

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	☼	09/22/17 08:26	09/25/17 16:41	1
1,2-Dichlorobenzene	<200		200	47	ug/Kg	☼	09/22/17 08:26	09/25/17 16:41	1
1,3-Dichlorobenzene	<200		200	45	ug/Kg	☼	09/22/17 08:26	09/25/17 16:41	1
1,4-Dichlorobenzene	<200		200	51	ug/Kg	☼	09/22/17 08:26	09/25/17 16:41	1
2,2'-oxybis[1-chloropropane]	<200		200	46	ug/Kg	☼	09/22/17 08:26	09/25/17 16:41	1
2,4,5-Trichlorophenol	<390		390	90	ug/Kg	☼	09/22/17 08:26	09/25/17 16:41	1
2,4,6-Trichlorophenol	<390		390	140	ug/Kg	☼	09/22/17 08:26	09/25/17 16:41	1
2,4-Dichlorophenol	<390		390	94	ug/Kg	☼	09/22/17 08:26	09/25/17 16:41	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	09/22/17 08:26	09/25/17 16:41	1
2,4-Dinitrophenol	<800		800	700	ug/Kg	☼	09/22/17 08:26	09/25/17 16:41	1
2,4-Dinitrotoluene	<200		200	63	ug/Kg	☼	09/22/17 08:26	09/25/17 16:41	1
2,6-Dinitrotoluene	<200		200	78	ug/Kg	☼	09/22/17 08:26	09/25/17 16:41	1
2-Chloronaphthalene	<200		200	44	ug/Kg	☼	09/22/17 08:26	09/25/17 16:41	1
2-Chlorophenol	<200		200	68	ug/Kg	☼	09/22/17 08:26	09/25/17 16:41	1
2-Methylnaphthalene	<80		80	7.3	ug/Kg	☼	09/22/17 08:26	09/25/17 16:41	1
2-Methylphenol	<200		200	64	ug/Kg	☼	09/22/17 08:26	09/25/17 16:41	1
2-Nitroaniline	<200		200	53	ug/Kg	☼	09/22/17 08:26	09/25/17 16:41	1
2-Nitrophenol	<390		390	94	ug/Kg	☼	09/22/17 08:26	09/25/17 16:41	1
3 & 4 Methylphenol	<200		200	66	ug/Kg	☼	09/22/17 08:26	09/25/17 16:41	1
3,3'-Dichlorobenzidine	<200		200	55	ug/Kg	☼	09/22/17 08:26	09/25/17 16:41	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	09/22/17 08:26	09/25/17 16:41	1
4,6-Dinitro-2-methylphenol	<800		800	320	ug/Kg	☼	09/22/17 08:26	09/25/17 16:41	1
4-Bromophenyl phenyl ether	<200		200	52	ug/Kg	☼	09/22/17 08:26	09/25/17 16:41	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	09/22/17 08:26	09/25/17 16:41	1
4-Chloroaniline	<800		800	190	ug/Kg	☼	09/22/17 08:26	09/25/17 16:41	1
4-Chlorophenyl phenyl ether	<200		200	46	ug/Kg	☼	09/22/17 08:26	09/25/17 16:41	1
4-Nitroaniline	<390		390	170	ug/Kg	☼	09/22/17 08:26	09/25/17 16:41	1
4-Nitrophenol	<800		800	380	ug/Kg	☼	09/22/17 08:26	09/25/17 16:41	1
Acenaphthene	24	J	39	7.1	ug/Kg	☼	09/22/17 08:26	09/25/17 16:41	1
Acenaphthylene	13	J	39	5.2	ug/Kg	☼	09/22/17 08:26	09/25/17 16:41	1
Anthracene	100		39	6.6	ug/Kg	☼	09/22/17 08:26	09/25/17 16:41	1
Benzo[a]anthracene	470		39	5.3	ug/Kg	☼	09/22/17 08:26	09/25/17 16:41	1
Benzo[a]pyrene	510		39	7.7	ug/Kg	☼	09/22/17 08:26	09/25/17 16:41	1
Benzo[b]fluoranthene	710		39	8.6	ug/Kg	☼	09/22/17 08:26	09/25/17 16:41	1
Benzo[g,h,i]perylene	180		39	13	ug/Kg	☼	09/22/17 08:26	09/25/17 16:41	1
Benzo[k]fluoranthene	230		39	12	ug/Kg	☼	09/22/17 08:26	09/25/17 16:41	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	☼	09/22/17 08:26	09/25/17 16:41	1
Bis(2-chloroethyl)ether	<200		200	59	ug/Kg	☼	09/22/17 08:26	09/25/17 16:41	1
Bis(2-ethylhexyl) phthalate	<200		200	72	ug/Kg	☼	09/22/17 08:26	09/25/17 16:41	1
Butyl benzyl phthalate	<200		200	75	ug/Kg	☼	09/22/17 08:26	09/25/17 16:41	1
Carbazole	<200		200	99	ug/Kg	☼	09/22/17 08:26	09/25/17 16:41	1
Chrysene	570		39	11	ug/Kg	☼	09/22/17 08:26	09/25/17 16:41	1
Dibenz(a,h)anthracene	56		39	7.7	ug/Kg	☼	09/22/17 08:26	09/25/17 16:41	1
Dibenzofuran	<200		200	46	ug/Kg	☼	09/22/17 08:26	09/25/17 16:41	1
Diethyl phthalate	<200		200	67	ug/Kg	☼	09/22/17 08:26	09/25/17 16:41	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134187-1

Client Sample ID: FH-11(0-5)-091817

Lab Sample ID: 500-134187-14

Date Collected: 09/18/17 14:08

Matrix: Solid

Date Received: 09/18/17 17:35

Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	<200		200	52	ug/Kg	☼	09/22/17 08:26	09/25/17 16:41	1
Di-n-butyl phthalate	<200		200	60	ug/Kg	☼	09/22/17 08:26	09/25/17 16:41	1
Di-n-octyl phthalate	<200		200	65	ug/Kg	☼	09/22/17 08:26	09/25/17 16:41	1
Fluoranthene	1100		39	7.3	ug/Kg	☼	09/22/17 08:26	09/25/17 16:41	1
Fluorene	24 J		39	5.6	ug/Kg	☼	09/22/17 08:26	09/25/17 16:41	1
Hexachlorobenzene	<80		80	9.2	ug/Kg	☼	09/22/17 08:26	09/25/17 16:41	1
Hexachlorobutadiene	<200		200	62	ug/Kg	☼	09/22/17 08:26	09/25/17 16:41	1
Hexachlorocyclopentadiene	<800		800	230	ug/Kg	☼	09/22/17 08:26	09/25/17 16:41	1
Hexachloroethane	<200		200	60	ug/Kg	☼	09/22/17 08:26	09/25/17 16:41	1
Indeno[1,2,3-cd]pyrene	190		39	10	ug/Kg	☼	09/22/17 08:26	09/25/17 16:41	1
Isophorone	<200		200	44	ug/Kg	☼	09/22/17 08:26	09/25/17 16:41	1
Naphthalene	8.0 J		39	6.1	ug/Kg	☼	09/22/17 08:26	09/25/17 16:41	1
Nitrobenzene	<39		39	9.9	ug/Kg	☼	09/22/17 08:26	09/25/17 16:41	1
N-Nitrosodi-n-propylamine	<80		80	48	ug/Kg	☼	09/22/17 08:26	09/25/17 16:41	1
N-Nitrosodiphenylamine	<200		200	47	ug/Kg	☼	09/22/17 08:26	09/25/17 16:41	1
Pentachlorophenol	<800		800	640	ug/Kg	☼	09/22/17 08:26	09/25/17 16:41	1
Phenanthrene	480		39	5.5	ug/Kg	☼	09/22/17 08:26	09/25/17 16:41	1
Phenol	<200		200	88	ug/Kg	☼	09/22/17 08:26	09/25/17 16:41	1
Pyrene	1000		39	7.9	ug/Kg	☼	09/22/17 08:26	09/25/17 16:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	72		25 - 139	09/22/17 08:26	09/25/17 16:41	1
2-Fluorobiphenyl	89		44 - 121	09/22/17 08:26	09/25/17 16:41	1
2-Fluorophenol	126		46 - 133	09/22/17 08:26	09/25/17 16:41	1
Nitrobenzene-d5	96		41 - 120	09/22/17 08:26	09/25/17 16:41	1
Phenol-d5	115		46 - 125	09/22/17 08:26	09/25/17 16:41	1
Terphenyl-d14	104		35 - 160	09/22/17 08:26	09/25/17 16:41	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		09/20/17 08:27	09/21/17 00:06	1
Barium	0.35 J		0.50	0.050	mg/L		09/20/17 08:27	09/21/17 00:06	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/20/17 08:27	09/21/17 00:06	1
Cadmium	0.0024 J		0.0050	0.0020	mg/L		09/20/17 08:27	09/21/17 00:06	1
Chromium	<0.025		0.025	0.010	mg/L		09/20/17 08:27	09/21/17 00:06	1
Cobalt	0.024 J		0.025	0.010	mg/L		09/20/17 08:27	09/21/17 00:06	1
Copper	<0.025		0.025	0.010	mg/L		09/20/17 08:27	09/21/17 00:06	1
Iron	<0.40		0.40	0.20	mg/L		09/20/17 08:27	09/21/17 00:06	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/20/17 08:27	09/21/17 00:06	1
Manganese	5.7		0.025	0.010	mg/L		09/20/17 08:27	09/21/17 00:06	1
Nickel	0.020 J		0.025	0.010	mg/L		09/20/17 08:27	09/21/17 00:06	1
Selenium	<0.050		0.050	0.020	mg/L		09/20/17 08:27	09/21/17 00:06	1
Silver	<0.025		0.025	0.010	mg/L		09/20/17 08:27	09/21/17 00:06	1
Zinc	0.043 J		0.50	0.020	mg/L		09/20/17 08:27	09/21/17 00:06	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		09/20/17 16:52	09/21/17 17:10	1
Barium	<0.50		0.50	0.050	mg/L		09/20/17 16:52	09/21/17 17:10	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/20/17 16:52	09/21/17 17:10	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134187-1

Client Sample ID: FH-11(0-5)-091817

Lab Sample ID: 500-134187-14

Date Collected: 09/18/17 14:08

Matrix: Solid

Date Received: 09/18/17 17:35

Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/20/17 16:52	09/21/17 17:10	1
Chromium	<0.025		0.025	0.010	mg/L		09/20/17 16:52	09/21/17 17:10	1
Cobalt	<0.025		0.025	0.010	mg/L		09/20/17 16:52	09/21/17 17:10	1
Copper	0.016	J	0.025	0.010	mg/L		09/20/17 16:52	09/21/17 17:10	1
Iron	7.2		0.40	0.20	mg/L		09/20/17 16:52	09/21/17 17:10	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/20/17 16:52	09/21/17 17:10	1
Manganese	0.030		0.025	0.010	mg/L		09/20/17 16:52	09/21/17 17:10	1
Nickel	<0.025		0.025	0.010	mg/L		09/20/17 16:52	09/21/17 17:10	1
Selenium	<0.050		0.050	0.020	mg/L		09/20/17 16:52	09/21/17 17:10	1
Silver	<0.025		0.025	0.010	mg/L		09/20/17 16:52	09/21/17 17:10	1
Zinc	0.021	J	0.50	0.020	mg/L		09/20/17 16:52	09/21/17 17:10	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	☼	09/19/17 15:43	09/20/17 12:29	1
Arsenic	8.2		0.60	0.21	mg/Kg	☼	09/19/17 15:43	09/20/17 12:29	1
Barium	66		0.60	0.069	mg/Kg	☼	09/19/17 15:43	09/20/17 12:29	1
Beryllium	0.68		0.24	0.056	mg/Kg	☼	09/19/17 15:43	09/20/17 12:29	1
Cadmium	0.31	B	0.12	0.022	mg/Kg	☼	09/19/17 15:43	09/20/17 12:29	1
Calcium	14000	B	12	2.0	mg/Kg	☼	09/19/17 15:43	09/20/17 12:29	1
Chromium	18		0.60	0.30	mg/Kg	☼	09/19/17 15:43	09/20/17 12:29	1
Cobalt	15		0.30	0.079	mg/Kg	☼	09/19/17 15:43	09/20/17 12:29	1
Copper	27		0.60	0.17	mg/Kg	☼	09/19/17 15:43	09/20/17 12:29	1
Iron	21000	B	12	6.3	mg/Kg	☼	09/19/17 15:43	09/20/17 12:29	1
Lead	29		0.30	0.14	mg/Kg	☼	09/19/17 15:43	09/20/17 12:29	1
Magnesium	11000	B	6.0	3.0	mg/Kg	☼	09/19/17 15:43	09/20/17 12:29	1
Manganese	500	B	0.60	0.088	mg/Kg	☼	09/19/17 15:43	09/20/17 12:29	1
Nickel	31		0.60	0.18	mg/Kg	☼	09/19/17 15:43	09/20/17 12:29	1
Potassium	1900		30	11	mg/Kg	☼	09/19/17 15:43	09/20/17 12:29	1
Selenium	<0.60		0.60	0.36	mg/Kg	☼	09/19/17 15:43	09/20/17 12:29	1
Silver	<0.30		0.30	0.078	mg/Kg	☼	09/19/17 15:43	09/20/17 12:29	1
Sodium	81		60	8.9	mg/Kg	☼	09/19/17 15:43	09/20/17 12:29	1
Thallium	<0.60		0.60	0.30	mg/Kg	☼	09/19/17 15:43	09/20/17 12:29	1
Vanadium	24		0.30	0.071	mg/Kg	☼	09/19/17 15:43	09/20/17 12:29	1
Zinc	72		1.2	0.53	mg/Kg	☼	09/19/17 15:43	09/20/17 12:29	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		09/20/17 16:00	09/21/17 11:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		09/20/17 16:00	09/21/17 12:19	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	45		20	6.6	ug/Kg	☼	09/21/17 16:00	09/22/17 13:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.3		0.20	0.20	SU			09/23/17 10:51	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134187-1

Client Sample ID: FH-11(5-10)-091817

Lab Sample ID: 500-134187-15

Date Collected: 09/18/17 14:15

Matrix: Solid

Date Received: 09/18/17 17:35

Percent Solids: 80.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	72		20	8.9	ug/Kg	☼	09/19/17 08:37	09/20/17 19:03	1
Benzene	<2.0		2.0	0.52	ug/Kg	☼	09/19/17 08:37	09/20/17 19:03	1
Bromodichloromethane	<2.0		2.0	0.42	ug/Kg	☼	09/19/17 08:37	09/20/17 19:03	1
Bromoform	<2.0		2.0	0.60	ug/Kg	☼	09/19/17 08:37	09/20/17 19:03	1
Bromomethane	<5.1		5.1	1.9	ug/Kg	☼	09/19/17 08:37	09/20/17 19:03	1
Carbon disulfide	<5.1		5.1	1.1	ug/Kg	☼	09/19/17 08:37	09/20/17 19:03	1
Carbon tetrachloride	<2.0		2.0	0.59	ug/Kg	☼	09/19/17 08:37	09/20/17 19:03	1
Chlorobenzene	<2.0		2.0	0.75	ug/Kg	☼	09/19/17 08:37	09/20/17 19:03	1
Chloroethane	<5.1		5.1	1.5	ug/Kg	☼	09/19/17 08:37	09/20/17 19:03	1
Chloroform	<2.0		2.0	0.71	ug/Kg	☼	09/19/17 08:37	09/20/17 19:03	1
Chloromethane	<5.1		5.1	2.1	ug/Kg	☼	09/19/17 08:37	09/20/17 19:03	1
cis-1,2-Dichloroethene	<2.0		2.0	0.57	ug/Kg	☼	09/19/17 08:37	09/20/17 19:03	1
cis-1,3-Dichloropropene	<2.0		2.0	0.62	ug/Kg	☼	09/19/17 08:37	09/20/17 19:03	1
Dibromochloromethane	<2.0		2.0	0.67	ug/Kg	☼	09/19/17 08:37	09/20/17 19:03	1
1,1-Dichloroethane	<2.0		2.0	0.70	ug/Kg	☼	09/19/17 08:37	09/20/17 19:03	1
1,2-Dichloroethane	<5.1		5.1	1.6	ug/Kg	☼	09/19/17 08:37	09/20/17 19:03	1
1,1-Dichloroethene	<2.0		2.0	0.70	ug/Kg	☼	09/19/17 08:37	09/20/17 19:03	1
1,2-Dichloropropane	<2.0		2.0	0.53	ug/Kg	☼	09/19/17 08:37	09/20/17 19:03	1
1,3-Dichloropropene, Total	<2.0		2.0	0.72	ug/Kg	☼	09/19/17 08:37	09/20/17 19:03	1
Ethylbenzene	<2.0		2.0	0.98	ug/Kg	☼	09/19/17 08:37	09/20/17 19:03	1
2-Hexanone	<5.1		5.1	1.6	ug/Kg	☼	09/19/17 08:37	09/20/17 19:03	1
Methylene Chloride	<5.1		5.1	2.0	ug/Kg	☼	09/19/17 08:37	09/20/17 19:03	1
Methyl Ethyl Ketone	<5.1		5.1	2.3	ug/Kg	☼	09/19/17 08:37	09/20/17 19:03	1
methyl isobutyl ketone	<5.1		5.1	1.5	ug/Kg	☼	09/19/17 08:37	09/20/17 19:03	1
Methyl tert-butyl ether	<2.0		2.0	0.60	ug/Kg	☼	09/19/17 08:37	09/20/17 19:03	1
Styrene	<2.0		2.0	0.62	ug/Kg	☼	09/19/17 08:37	09/20/17 19:03	1
1,1,2,2-Tetrachloroethane	<2.0		2.0	0.65	ug/Kg	☼	09/19/17 08:37	09/20/17 19:03	1
Tetrachloroethene	<2.0		2.0	0.70	ug/Kg	☼	09/19/17 08:37	09/20/17 19:03	1
Toluene	<2.0		2.0	0.52	ug/Kg	☼	09/19/17 08:37	09/20/17 19:03	1
trans-1,2-Dichloroethene	<2.0		2.0	0.90	ug/Kg	☼	09/19/17 08:37	09/20/17 19:03	1
trans-1,3-Dichloropropene	<2.0		2.0	0.72	ug/Kg	☼	09/19/17 08:37	09/20/17 19:03	1
1,1,1-Trichloroethane	<2.0		2.0	0.68	ug/Kg	☼	09/19/17 08:37	09/20/17 19:03	1
1,1,2-Trichloroethane	<2.0		2.0	0.88	ug/Kg	☼	09/19/17 08:37	09/20/17 19:03	1
Trichloroethene	<2.0		2.0	0.69	ug/Kg	☼	09/19/17 08:37	09/20/17 19:03	1
Vinyl chloride	<2.0		2.0	0.90	ug/Kg	☼	09/19/17 08:37	09/20/17 19:03	1
Xylenes, Total	<4.1		4.1	0.65	ug/Kg	☼	09/19/17 08:37	09/20/17 19:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		75 - 131	09/19/17 08:37	09/20/17 19:03	1
Dibromofluoromethane	101		75 - 126	09/19/17 08:37	09/20/17 19:03	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	09/19/17 08:37	09/20/17 19:03	1
Toluene-d8 (Surr)	96		75 - 124	09/19/17 08:37	09/20/17 19:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<200		200	42	ug/Kg	☼	09/22/17 08:26	09/25/17 17:08	1
1,2-Dichlorobenzene	<200		200	47	ug/Kg	☼	09/22/17 08:26	09/25/17 17:08	1
1,3-Dichlorobenzene	<200		200	44	ug/Kg	☼	09/22/17 08:26	09/25/17 17:08	1
1,4-Dichlorobenzene	<200		200	50	ug/Kg	☼	09/22/17 08:26	09/25/17 17:08	1
2,2'-oxybis[1-chloropropane]	<200		200	45	ug/Kg	☼	09/22/17 08:26	09/25/17 17:08	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134187-1

Client Sample ID: FH-11(5-10)-091817

Lab Sample ID: 500-134187-15

Date Collected: 09/18/17 14:15

Matrix: Solid

Date Received: 09/18/17 17:35

Percent Solids: 80.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<390		390	89	ug/Kg	☼	09/22/17 08:26	09/25/17 17:08	1
2,4,6-Trichlorophenol	<390		390	130	ug/Kg	☼	09/22/17 08:26	09/25/17 17:08	1
2,4-Dichlorophenol	<390		390	93	ug/Kg	☼	09/22/17 08:26	09/25/17 17:08	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	09/22/17 08:26	09/25/17 17:08	1
2,4-Dinitrophenol	<790		790	690	ug/Kg	☼	09/22/17 08:26	09/25/17 17:08	1
2,4-Dinitrotoluene	<200		200	62	ug/Kg	☼	09/22/17 08:26	09/25/17 17:08	1
2,6-Dinitrotoluene	<200		200	77	ug/Kg	☼	09/22/17 08:26	09/25/17 17:08	1
2-Chloronaphthalene	<200		200	43	ug/Kg	☼	09/22/17 08:26	09/25/17 17:08	1
2-Chlorophenol	<200		200	67	ug/Kg	☼	09/22/17 08:26	09/25/17 17:08	1
2-Methylnaphthalene	<79		79	7.2	ug/Kg	☼	09/22/17 08:26	09/25/17 17:08	1
2-Methylphenol	<200		200	63	ug/Kg	☼	09/22/17 08:26	09/25/17 17:08	1
2-Nitroaniline	<200		200	53	ug/Kg	☼	09/22/17 08:26	09/25/17 17:08	1
2-Nitrophenol	<390		390	92	ug/Kg	☼	09/22/17 08:26	09/25/17 17:08	1
3 & 4 Methylphenol	<200		200	65	ug/Kg	☼	09/22/17 08:26	09/25/17 17:08	1
3,3'-Dichlorobenzidine	<200		200	55	ug/Kg	☼	09/22/17 08:26	09/25/17 17:08	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	09/22/17 08:26	09/25/17 17:08	1
4,6-Dinitro-2-methylphenol	<790		790	310	ug/Kg	☼	09/22/17 08:26	09/25/17 17:08	1
4-Bromophenyl phenyl ether	<200		200	52	ug/Kg	☼	09/22/17 08:26	09/25/17 17:08	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	09/22/17 08:26	09/25/17 17:08	1
4-Chloroaniline	<790		790	180	ug/Kg	☼	09/22/17 08:26	09/25/17 17:08	1
4-Chlorophenyl phenyl ether	<200		200	46	ug/Kg	☼	09/22/17 08:26	09/25/17 17:08	1
4-Nitroaniline	<390		390	160	ug/Kg	☼	09/22/17 08:26	09/25/17 17:08	1
4-Nitrophenol	<790		790	370	ug/Kg	☼	09/22/17 08:26	09/25/17 17:08	1
Acenaphthene	<39		39	7.0	ug/Kg	☼	09/22/17 08:26	09/25/17 17:08	1
Acenaphthylene	<39		39	5.2	ug/Kg	☼	09/22/17 08:26	09/25/17 17:08	1
Anthracene	15	J	39	6.5	ug/Kg	☼	09/22/17 08:26	09/25/17 17:08	1
Benzo[a]anthracene	74		39	5.3	ug/Kg	☼	09/22/17 08:26	09/25/17 17:08	1
Benzo[a]pyrene	79		39	7.6	ug/Kg	☼	09/22/17 08:26	09/25/17 17:08	1
Benzo[b]fluoranthene	110		39	8.4	ug/Kg	☼	09/22/17 08:26	09/25/17 17:08	1
Benzo[g,h,i]perylene	35	J	39	13	ug/Kg	☼	09/22/17 08:26	09/25/17 17:08	1
Benzo[k]fluoranthene	47		39	12	ug/Kg	☼	09/22/17 08:26	09/25/17 17:08	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	☼	09/22/17 08:26	09/25/17 17:08	1
Bis(2-chloroethyl)ether	<200		200	59	ug/Kg	☼	09/22/17 08:26	09/25/17 17:08	1
Bis(2-ethylhexyl) phthalate	<200		200	71	ug/Kg	☼	09/22/17 08:26	09/25/17 17:08	1
Butyl benzyl phthalate	<200		200	74	ug/Kg	☼	09/22/17 08:26	09/25/17 17:08	1
Carbazole	<200		200	98	ug/Kg	☼	09/22/17 08:26	09/25/17 17:08	1
Chrysene	92		39	11	ug/Kg	☼	09/22/17 08:26	09/25/17 17:08	1
Dibenz(a,h)anthracene	<39		39	7.6	ug/Kg	☼	09/22/17 08:26	09/25/17 17:08	1
Dibenzofuran	<200		200	46	ug/Kg	☼	09/22/17 08:26	09/25/17 17:08	1
Diethyl phthalate	<200		200	66	ug/Kg	☼	09/22/17 08:26	09/25/17 17:08	1
Dimethyl phthalate	<200		200	51	ug/Kg	☼	09/22/17 08:26	09/25/17 17:08	1
Di-n-butyl phthalate	<200		200	60	ug/Kg	☼	09/22/17 08:26	09/25/17 17:08	1
Di-n-octyl phthalate	<200		200	64	ug/Kg	☼	09/22/17 08:26	09/25/17 17:08	1
Fluoranthene	190		39	7.2	ug/Kg	☼	09/22/17 08:26	09/25/17 17:08	1
Fluorene	<39		39	5.5	ug/Kg	☼	09/22/17 08:26	09/25/17 17:08	1
Hexachlorobenzene	<79		79	9.1	ug/Kg	☼	09/22/17 08:26	09/25/17 17:08	1
Hexachlorobutadiene	<200		200	61	ug/Kg	☼	09/22/17 08:26	09/25/17 17:08	1
Hexachlorocyclopentadiene	<790		790	220	ug/Kg	☼	09/22/17 08:26	09/25/17 17:08	1
Hexachloroethane	<200		200	59	ug/Kg	☼	09/22/17 08:26	09/25/17 17:08	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134187-1

Client Sample ID: FH-11(5-10)-091817

Lab Sample ID: 500-134187-15

Date Collected: 09/18/17 14:15

Matrix: Solid

Date Received: 09/18/17 17:35

Percent Solids: 80.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	32	J	39	10	ug/Kg	☼	09/22/17 08:26	09/25/17 17:08	1
Isophorone	<200		200	44	ug/Kg	☼	09/22/17 08:26	09/25/17 17:08	1
Naphthalene	<39		39	6.0	ug/Kg	☼	09/22/17 08:26	09/25/17 17:08	1
Nitrobenzene	<39		39	9.8	ug/Kg	☼	09/22/17 08:26	09/25/17 17:08	1
N-Nitrosodi-n-propylamine	<79		79	48	ug/Kg	☼	09/22/17 08:26	09/25/17 17:08	1
N-Nitrosodiphenylamine	<200		200	46	ug/Kg	☼	09/22/17 08:26	09/25/17 17:08	1
Pentachlorophenol	<790		790	630	ug/Kg	☼	09/22/17 08:26	09/25/17 17:08	1
Phenanthrene	76		39	5.4	ug/Kg	☼	09/22/17 08:26	09/25/17 17:08	1
Phenol	<200		200	87	ug/Kg	☼	09/22/17 08:26	09/25/17 17:08	1
Pyrene	150		39	7.8	ug/Kg	☼	09/22/17 08:26	09/25/17 17:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	63		25 - 139				09/22/17 08:26	09/25/17 17:08	1
2-Fluorobiphenyl	88		44 - 121				09/22/17 08:26	09/25/17 17:08	1
2-Fluorophenol	126		46 - 133				09/22/17 08:26	09/25/17 17:08	1
Nitrobenzene-d5	94		41 - 120				09/22/17 08:26	09/25/17 17:08	1
Phenol-d5	111		46 - 125				09/22/17 08:26	09/25/17 17:08	1
Terphenyl-d14	103		35 - 160				09/22/17 08:26	09/25/17 17:08	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		09/20/17 08:27	09/21/17 00:10	1
Barium	0.42	J	0.50	0.050	mg/L		09/20/17 08:27	09/21/17 00:10	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/20/17 08:27	09/21/17 00:10	1
Cadmium	0.0028	J	0.0050	0.0020	mg/L		09/20/17 08:27	09/21/17 00:10	1
Chromium	<0.025		0.025	0.010	mg/L		09/20/17 08:27	09/21/17 00:10	1
Cobalt	0.053		0.025	0.010	mg/L		09/20/17 08:27	09/21/17 00:10	1
Copper	0.012	J	0.025	0.010	mg/L		09/20/17 08:27	09/21/17 00:10	1
Iron	<0.40		0.40	0.20	mg/L		09/20/17 08:27	09/21/17 00:10	1
Lead	0.015		0.0075	0.0075	mg/L		09/20/17 08:27	09/21/17 00:10	1
Manganese	10		0.025	0.010	mg/L		09/20/17 08:27	09/21/17 00:10	1
Nickel	0.039		0.025	0.010	mg/L		09/20/17 08:27	09/21/17 00:10	1
Selenium	<0.050		0.050	0.020	mg/L		09/20/17 08:27	09/21/17 00:10	1
Silver	<0.025		0.025	0.010	mg/L		09/20/17 08:27	09/21/17 00:10	1
Zinc	0.076	J	0.50	0.020	mg/L		09/20/17 08:27	09/21/17 00:10	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		09/20/17 16:52	09/21/17 17:22	1
Barium	0.15	J	0.50	0.050	mg/L		09/20/17 16:52	09/21/17 17:22	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/20/17 16:52	09/21/17 17:22	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/20/17 16:52	09/21/17 17:22	1
Chromium	0.012	J	0.025	0.010	mg/L		09/20/17 16:52	09/21/17 17:22	1
Cobalt	<0.025		0.025	0.010	mg/L		09/20/17 16:52	09/21/17 17:22	1
Copper	0.058		0.025	0.010	mg/L		09/20/17 16:52	09/21/17 17:22	1
Iron	5.8		0.40	0.20	mg/L		09/20/17 16:52	09/21/17 17:22	1
Lead	0.0090		0.0075	0.0075	mg/L		09/20/17 16:52	09/21/17 17:22	1
Manganese	0.14		0.025	0.010	mg/L		09/20/17 16:52	09/21/17 17:22	1
Nickel	<0.025		0.025	0.010	mg/L		09/20/17 16:52	09/21/17 17:22	1
Selenium	<0.050		0.050	0.020	mg/L		09/20/17 16:52	09/21/17 17:22	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134187-1

Client Sample ID: FH-11(5-10)-091817

Lab Sample ID: 500-134187-15

Date Collected: 09/18/17 14:15

Matrix: Solid

Date Received: 09/18/17 17:35

Percent Solids: 80.1

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		09/20/17 16:52	09/21/17 17:22	1
Zinc	0.11	J	0.50	0.020	mg/L		09/20/17 16:52	09/21/17 17:22	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.23	mg/Kg	☼	09/19/17 15:43	09/20/17 12:42	1
Arsenic	7.9		0.59	0.20	mg/Kg	☼	09/19/17 15:43	09/20/17 12:42	1
Barium	62		0.59	0.067	mg/Kg	☼	09/19/17 15:43	09/20/17 12:42	1
Beryllium	0.64		0.23	0.055	mg/Kg	☼	09/19/17 15:43	09/20/17 12:42	1
Cadmium	0.29	B	0.12	0.021	mg/Kg	☼	09/19/17 15:43	09/20/17 12:42	1
Calcium	16000	B	12	2.0	mg/Kg	☼	09/19/17 15:43	09/20/17 12:42	1
Chromium	17		0.59	0.29	mg/Kg	☼	09/19/17 15:43	09/20/17 12:42	1
Cobalt	13		0.29	0.077	mg/Kg	☼	09/19/17 15:43	09/20/17 12:42	1
Copper	30		0.59	0.16	mg/Kg	☼	09/19/17 15:43	09/20/17 12:42	1
Iron	19000	B	12	6.1	mg/Kg	☼	09/19/17 15:43	09/20/17 12:42	1
Lead	28		0.29	0.14	mg/Kg	☼	09/19/17 15:43	09/20/17 12:42	1
Magnesium	11000	B	5.9	2.9	mg/Kg	☼	09/19/17 15:43	09/20/17 12:42	1
Manganese	570	B	0.59	0.085	mg/Kg	☼	09/19/17 15:43	09/20/17 12:42	1
Nickel	31		0.59	0.17	mg/Kg	☼	09/19/17 15:43	09/20/17 12:42	1
Potassium	1900		29	10	mg/Kg	☼	09/19/17 15:43	09/20/17 12:42	1
Selenium	0.40	J	0.59	0.34	mg/Kg	☼	09/19/17 15:43	09/20/17 12:42	1
Silver	<0.29		0.29	0.075	mg/Kg	☼	09/19/17 15:43	09/20/17 12:42	1
Sodium	80		59	8.7	mg/Kg	☼	09/19/17 15:43	09/20/17 12:42	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	09/19/17 15:43	09/20/17 12:42	1
Vanadium	23		0.29	0.069	mg/Kg	☼	09/19/17 15:43	09/20/17 12:42	1
Zinc	63		1.2	0.51	mg/Kg	☼	09/19/17 15:43	09/20/17 12:42	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		09/20/17 16:00	09/21/17 11:37	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		09/20/17 16:00	09/21/17 12:20	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	41		19	6.5	ug/Kg	☼	09/21/17 16:00	09/22/17 13:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.3		0.20	0.20	SU			09/23/17 10:52	1

Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134187-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	ISTD response or retention time outside acceptable limits
X	Surrogate is outside control limits
*	LCS or LCSD is outside acceptance limits.
*	RPD of the LCS and LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

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

Metals

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

Glossary

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

TestAmerica Chicago

Accreditation/Certification Summary

Client: Weston Solutions, Inc.

TestAmerica Job ID: 500-134187-1

Project/Site: IDOT - Eisenhower Expressway - WO 062

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Illinois	NELAP	5	100201	04-30-19

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

Analysis Method	Prep Method	Matrix	Analyte
8260B	5035	Solid	1,3-Dichloropropene, Total
9045D		Solid	pH
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

TestAmerica

THE LEADER IN ENVIRONMENTAL

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



500-134187 COC

Report To (optional) _____
Contact: Baba
Company: Weston Solutions
Address: 300 Plaza Cr. Ste 202
Address: Mundickum, IL
Phone: 224-824-7200
Fax: _____
E-Mail: _____

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

Chain of Custody Record

Lab Job #: 500-134187
Chain of Custody Number: _____
Page 1 of 3
Temperature °C of Cooler: 45, 51, 5.6

Client		Client Project #		Preservative		Parameter					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
<u>Weston</u>				<u>1</u>	<u>8</u>	<u>8</u>	<u>7</u>	<u>7</u>			
Project Name		Lab Project #		Matrix							
<u>INDOT 062 - Eisenhower Expressway</u>				<u>VOC</u>	<u>SVOG</u>	<u>metals</u>	<u>TCUP/SPLP</u>	<u>metals</u>	<u>PH</u>		
Project Location/State		Lab PM		# of Containers		Comments					
<u>Forest Park, IL</u>		<u>R. Wright</u>									
Lab ID	MS/MSD	Sample ID	Sampling		Matrix						
			Date	Time							
<u>1</u>		<u>FH-16(0-5)-091817</u>	<u>9/15/17</u>	<u>0836</u>	<u>6 S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>2</u>		<u>FH-16(5-10)-091817</u>		<u>0844</u>	<u>6 S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>3</u>		<u>FH-16(15-20)-091817</u>		<u>0902</u>	<u>6 S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>4</u>		<u>FH-16(20-25)-091817</u>		<u>0908</u>	<u>6 S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>5</u>		<u>FH-16(28.5-30)-091817</u>		<u>0913</u>	<u>6 S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>6</u>		<u>FH-16(0-15)-091817</u>		<u>0851</u>	<u>6 S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>7</u>		<u>FH-16(30-38)-091817</u>		<u>1005</u>	<u>6 S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>8</u>		<u>FH-16(30-38)-091817D</u>		<u>1005</u>	<u>6 S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>9</u>		<u>FH-16(38-46)-091817</u>		<u>1036</u>	<u>6 S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>10</u>		<u>FH-16(46-54)-091817</u>		<u>1122</u>	<u>6 S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	

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

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

Relinquished By <u>[Signature]</u>	Company <u>Weston</u>	Date <u>9/18/17</u>	Time <u>1548</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>9/18/17</u>	Time <u>1540</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>9/18/17</u>	Time <u>1735</u>	Received By <u>[Signature]</u>	Company <u>TA-CHE</u>	Date <u>9/19/17</u>	Time <u>0730</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TA
 Shipped: _____
 Hand Delivered: _____

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

Client Comments

Lab Comments:

TestAmerica

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ANALYTICAL REPORT

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

TestAmerica Job ID: 500-134343-1

Client Project/Site: IDOT - Eisenhower Expressway - WO 062

For:

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

Attn: Mr. S. Babusukumar



Authorized for release by:
9/29/2017 4:11:44 PM

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

LINKS

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results through
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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134343-1

Client Sample ID: FH-8(0-5)-092017

Lab Sample ID: 500-134343-9

Date Collected: 09/20/17 13:03

Matrix: Solid

Date Received: 09/21/17 16:37

Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	36		18	7.7	ug/Kg	☼	09/21/17 17:50	09/22/17 19:19	1
Benzene	<1.8		1.8	0.45	ug/Kg	☼	09/21/17 17:50	09/22/17 19:19	1
Bromodichloromethane	<1.8		1.8	0.36	ug/Kg	☼	09/21/17 17:50	09/22/17 19:19	1
Bromoform	<1.8		1.8	0.52	ug/Kg	☼	09/21/17 17:50	09/22/17 19:19	1
Bromomethane	<4.4		4.4	1.7	ug/Kg	☼	09/21/17 17:50	09/22/17 19:19	1
Carbon disulfide	<4.4		4.4	0.93	ug/Kg	☼	09/21/17 17:50	09/22/17 19:19	1
Carbon tetrachloride	<1.8		1.8	0.52	ug/Kg	☼	09/21/17 17:50	09/22/17 19:19	1
Chlorobenzene	<1.8		1.8	0.66	ug/Kg	☼	09/21/17 17:50	09/22/17 19:19	1
Chloroethane	<4.4 *		4.4	1.3	ug/Kg	☼	09/21/17 17:50	09/22/17 19:19	1
Chloroform	<1.8		1.8	0.62	ug/Kg	☼	09/21/17 17:50	09/22/17 19:19	1
Chloromethane	<4.4		4.4	1.8	ug/Kg	☼	09/21/17 17:50	09/22/17 19:19	1
cis-1,2-Dichloroethene	<1.8		1.8	0.50	ug/Kg	☼	09/21/17 17:50	09/22/17 19:19	1
cis-1,3-Dichloropropene	<1.8		1.8	0.54	ug/Kg	☼	09/21/17 17:50	09/22/17 19:19	1
Dibromochloromethane	<1.8		1.8	0.58	ug/Kg	☼	09/21/17 17:50	09/22/17 19:19	1
1,1-Dichloroethane	<1.8		1.8	0.61	ug/Kg	☼	09/21/17 17:50	09/22/17 19:19	1
1,2-Dichloroethane	<4.4		4.4	1.4	ug/Kg	☼	09/21/17 17:50	09/22/17 19:19	1
1,1-Dichloroethene	<1.8		1.8	0.61	ug/Kg	☼	09/21/17 17:50	09/22/17 19:19	1
1,2-Dichloropropane	<1.8		1.8	0.46	ug/Kg	☼	09/21/17 17:50	09/22/17 19:19	1
1,3-Dichloropropene, Total	<1.8		1.8	0.62	ug/Kg	☼	09/21/17 17:50	09/22/17 19:19	1
Ethylbenzene	<1.8		1.8	0.85	ug/Kg	☼	09/21/17 17:50	09/22/17 19:19	1
2-Hexanone	<4.4		4.4	1.4	ug/Kg	☼	09/21/17 17:50	09/22/17 19:19	1
Methylene Chloride	<4.4		4.4	1.8	ug/Kg	☼	09/21/17 17:50	09/22/17 19:19	1
Methyl Ethyl Ketone	<4.4		4.4	2.0	ug/Kg	☼	09/21/17 17:50	09/22/17 19:19	1
methyl isobutyl ketone	<4.4		4.4	1.3	ug/Kg	☼	09/21/17 17:50	09/22/17 19:19	1
Methyl tert-butyl ether	<1.8		1.8	0.52	ug/Kg	☼	09/21/17 17:50	09/22/17 19:19	1
Styrene	<1.8		1.8	0.54	ug/Kg	☼	09/21/17 17:50	09/22/17 19:19	1
1,1,2,2-Tetrachloroethane	<1.8		1.8	0.57	ug/Kg	☼	09/21/17 17:50	09/22/17 19:19	1
Tetrachloroethene	<1.8		1.8	0.61	ug/Kg	☼	09/21/17 17:50	09/22/17 19:19	1
Toluene	<1.8		1.8	0.45	ug/Kg	☼	09/21/17 17:50	09/22/17 19:19	1
trans-1,2-Dichloroethene	<1.8		1.8	0.79	ug/Kg	☼	09/21/17 17:50	09/22/17 19:19	1
trans-1,3-Dichloropropene	<1.8		1.8	0.62	ug/Kg	☼	09/21/17 17:50	09/22/17 19:19	1
1,1,1-Trichloroethane	<1.8		1.8	0.60	ug/Kg	☼	09/21/17 17:50	09/22/17 19:19	1
1,1,2-Trichloroethane	<1.8		1.8	0.76	ug/Kg	☼	09/21/17 17:50	09/22/17 19:19	1
Trichloroethene	<1.8		1.8	0.60	ug/Kg	☼	09/21/17 17:50	09/22/17 19:19	1
Vinyl chloride	<1.8		1.8	0.79	ug/Kg	☼	09/21/17 17:50	09/22/17 19:19	1
Xylenes, Total	<3.6		3.6	0.57	ug/Kg	☼	09/21/17 17:50	09/22/17 19:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		75 - 131	09/21/17 17:50	09/22/17 19:19	1
Dibromofluoromethane	107		75 - 126	09/21/17 17:50	09/22/17 19:19	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	09/21/17 17:50	09/22/17 19:19	1
Toluene-d8 (Surr)	100		75 - 124	09/21/17 17:50	09/22/17 19:19	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	41	ug/Kg	☼	09/26/17 06:56	09/28/17 11:34	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	09/26/17 06:56	09/28/17 11:34	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	09/26/17 06:56	09/28/17 11:34	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	09/26/17 06:56	09/28/17 11:34	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	09/26/17 06:56	09/28/17 11:34	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134343-1

Client Sample ID: FH-8(0-5)-092017

Lab Sample ID: 500-134343-9

Date Collected: 09/20/17 13:03

Matrix: Solid

Date Received: 09/21/17 16:37

Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<380		380	87	ug/Kg	☼	09/26/17 06:56	09/28/17 11:34	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	09/26/17 06:56	09/28/17 11:34	1
2,4-Dichlorophenol	<380		380	91	ug/Kg	☼	09/26/17 06:56	09/28/17 11:34	1
2,4-Dimethylphenol	<380		380	140	ug/Kg	☼	09/26/17 06:56	09/28/17 11:34	1
2,4-Dinitrophenol	<770		770	670	ug/Kg	☼	09/26/17 06:56	09/28/17 11:34	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	09/26/17 06:56	09/28/17 11:34	1
2,6-Dinitrotoluene	<190		190	75	ug/Kg	☼	09/26/17 06:56	09/28/17 11:34	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	09/26/17 06:56	09/28/17 11:34	1
2-Chlorophenol	<190		190	65	ug/Kg	☼	09/26/17 06:56	09/28/17 11:34	1
2-Methylnaphthalene	<77		77	7.0	ug/Kg	☼	09/26/17 06:56	09/28/17 11:34	1
2-Methylphenol	<190		190	61	ug/Kg	☼	09/26/17 06:56	09/28/17 11:34	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	09/26/17 06:56	09/28/17 11:34	1
2-Nitrophenol	<380		380	90	ug/Kg	☼	09/26/17 06:56	09/28/17 11:34	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	☼	09/26/17 06:56	09/28/17 11:34	1
3,3'-Dichlorobenzidine	<190		190	53	ug/Kg	☼	09/26/17 06:56	09/28/17 11:34	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	09/26/17 06:56	09/28/17 11:34	1
4,6-Dinitro-2-methylphenol	<770		770	310	ug/Kg	☼	09/26/17 06:56	09/28/17 11:34	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	09/26/17 06:56	09/28/17 11:34	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	09/26/17 06:56	09/28/17 11:34	1
4-Chloroaniline	<770		770	180	ug/Kg	☼	09/26/17 06:56	09/28/17 11:34	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	09/26/17 06:56	09/28/17 11:34	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	09/26/17 06:56	09/28/17 11:34	1
4-Nitrophenol	<770		770	360	ug/Kg	☼	09/26/17 06:56	09/28/17 11:34	1
Acenaphthene	12 J		38	6.8	ug/Kg	☼	09/26/17 06:56	09/28/17 11:34	1
Acenaphthylene	<38		38	5.0	ug/Kg	☼	09/26/17 06:56	09/28/17 11:34	1
Anthracene	27 J		38	6.4	ug/Kg	☼	09/26/17 06:56	09/28/17 11:34	1
Benzo[a]anthracene	93		38	5.1	ug/Kg	☼	09/26/17 06:56	09/28/17 11:34	1
Benzo[a]pyrene	95		38	7.4	ug/Kg	☼	09/26/17 06:56	09/28/17 11:34	1
Benzo[b]fluoranthene	140		38	8.2	ug/Kg	☼	09/26/17 06:56	09/28/17 11:34	1
Benzo[g,h,i]perylene	63		38	12	ug/Kg	☼	09/26/17 06:56	09/28/17 11:34	1
Benzo[k]fluoranthene	61		38	11	ug/Kg	☼	09/26/17 06:56	09/28/17 11:34	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	09/26/17 06:56	09/28/17 11:34	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	09/26/17 06:56	09/28/17 11:34	1
Bis(2-ethylhexyl) phthalate	<190		190	70	ug/Kg	☼	09/26/17 06:56	09/28/17 11:34	1
Butyl benzyl phthalate	<190		190	73	ug/Kg	☼	09/26/17 06:56	09/28/17 11:34	1
Carbazole	<190		190	95	ug/Kg	☼	09/26/17 06:56	09/28/17 11:34	1
Chrysene	110		38	10	ug/Kg	☼	09/26/17 06:56	09/28/17 11:34	1
Dibenz(a,h)anthracene	19 J		38	7.4	ug/Kg	☼	09/26/17 06:56	09/28/17 11:34	1
Dibenzofuran	<190		190	45	ug/Kg	☼	09/26/17 06:56	09/28/17 11:34	1
Diethyl phthalate	<190		190	65	ug/Kg	☼	09/26/17 06:56	09/28/17 11:34	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	09/26/17 06:56	09/28/17 11:34	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	09/26/17 06:56	09/28/17 11:34	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	09/26/17 06:56	09/28/17 11:34	1
Fluoranthene	230		38	7.1	ug/Kg	☼	09/26/17 06:56	09/28/17 11:34	1
Fluorene	12 J		38	5.4	ug/Kg	☼	09/26/17 06:56	09/28/17 11:34	1
Hexachlorobenzene	<77		77	8.8	ug/Kg	☼	09/26/17 06:56	09/28/17 11:34	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	09/26/17 06:56	09/28/17 11:34	1
Hexachlorocyclopentadiene	<770		770	220	ug/Kg	☼	09/26/17 06:56	09/28/17 11:34	1
Hexachloroethane	<190		190	58	ug/Kg	☼	09/26/17 06:56	09/28/17 11:34	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134343-1

Client Sample ID: FH-8(0-5)-092017

Lab Sample ID: 500-134343-9

Date Collected: 09/20/17 13:03

Matrix: Solid

Date Received: 09/21/17 16:37

Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	56		38	9.9	ug/Kg	☼	09/26/17 06:56	09/28/17 11:34	1
Isophorone	<190		190	43	ug/Kg	☼	09/26/17 06:56	09/28/17 11:34	1
Naphthalene	<38		38	5.9	ug/Kg	☼	09/26/17 06:56	09/28/17 11:34	1
Nitrobenzene	<38		38	9.5	ug/Kg	☼	09/26/17 06:56	09/28/17 11:34	1
N-Nitrosodi-n-propylamine	<77		77	47	ug/Kg	☼	09/26/17 06:56	09/28/17 11:34	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	09/26/17 06:56	09/28/17 11:34	1
Pentachlorophenol	<770		770	610	ug/Kg	☼	09/26/17 06:56	09/28/17 11:34	1
Phenanthrene	140		38	5.3	ug/Kg	☼	09/26/17 06:56	09/28/17 11:34	1
Phenol	<190		190	85	ug/Kg	☼	09/26/17 06:56	09/28/17 11:34	1
Pyrene	190		38	7.6	ug/Kg	☼	09/26/17 06:56	09/28/17 11:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	98		25 - 139				09/26/17 06:56	09/28/17 11:34	1
2-Fluorobiphenyl	91		44 - 121				09/26/17 06:56	09/28/17 11:34	1
2-Fluorophenol	115		46 - 133				09/26/17 06:56	09/28/17 11:34	1
Nitrobenzene-d5	90		41 - 120				09/26/17 06:56	09/28/17 11:34	1
Phenol-d5	108		46 - 125				09/26/17 06:56	09/28/17 11:34	1
Terphenyl-d14	98		35 - 160				09/26/17 06:56	09/28/17 11:34	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		09/26/17 15:02	09/27/17 13:36	1
Barium	0.36	J	0.50	0.050	mg/L		09/26/17 15:02	09/27/17 13:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/26/17 15:02	09/27/17 13:36	1
Cadmium	0.0022	J	0.0050	0.0020	mg/L		09/26/17 15:02	09/27/17 13:36	1
Chromium	<0.025		0.025	0.010	mg/L		09/26/17 15:02	09/27/17 13:36	1
Cobalt	0.026		0.025	0.010	mg/L		09/26/17 15:02	09/27/17 13:36	1
Copper	0.014	J B	0.20	0.010	mg/L		09/26/17 15:02	09/27/17 13:36	1
Iron	<0.40		0.40	0.20	mg/L		09/26/17 15:02	09/27/17 13:36	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/26/17 15:02	09/27/17 13:36	1
Manganese	6.8		0.025	0.010	mg/L		09/26/17 15:02	09/27/17 13:36	1
Nickel	0.026		0.025	0.010	mg/L		09/26/17 15:02	09/27/17 13:36	1
Selenium	<0.050		0.050	0.020	mg/L		09/26/17 15:02	09/27/17 13:36	1
Silver	<0.025		0.025	0.010	mg/L		09/26/17 15:02	09/27/17 13:36	1
Zinc	0.029	J B	0.50	0.020	mg/L		09/26/17 15:02	09/27/17 13:36	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		09/25/17 07:11	09/25/17 21:58	1
Barium	0.098	J	0.50	0.050	mg/L		09/25/17 07:11	09/25/17 21:58	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/25/17 07:11	09/25/17 21:58	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/25/17 07:11	09/25/17 21:58	1
Chromium	<0.025		0.025	0.010	mg/L		09/25/17 07:11	09/26/17 20:18	1
Cobalt	<0.025		0.025	0.010	mg/L		09/25/17 07:11	09/25/17 21:58	1
Copper	0.044		0.025	0.010	mg/L		09/25/17 07:11	09/25/17 21:58	1
Iron	2.0		0.40	0.20	mg/L		09/25/17 07:11	09/25/17 21:58	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/25/17 07:11	09/25/17 21:58	1
Manganese	0.14		0.025	0.010	mg/L		09/25/17 07:11	09/25/17 21:58	1
Nickel	<0.025		0.025	0.010	mg/L		09/25/17 07:11	09/25/17 21:58	1
Selenium	<0.050		0.050	0.020	mg/L		09/25/17 07:11	09/25/17 21:58	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134343-1

Client Sample ID: FH-8(0-5)-092017

Lab Sample ID: 500-134343-9

Date Collected: 09/20/17 13:03

Matrix: Solid

Date Received: 09/21/17 16:37

Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		09/25/17 07:11	09/25/17 21:58	1
Zinc	0.062	J	0.50	0.020	mg/L		09/25/17 07:11	09/25/17 21:58	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.22	mg/Kg	☼	09/22/17 17:15	09/26/17 02:40	1
Arsenic	11		0.58	0.20	mg/Kg	☼	09/22/17 17:15	09/26/17 02:40	1
Barium	69		0.58	0.066	mg/Kg	☼	09/22/17 17:15	09/26/17 02:40	1
Beryllium	0.56		0.23	0.054	mg/Kg	☼	09/22/17 17:15	09/26/17 02:40	1
Cadmium	0.18	B	0.12	0.021	mg/Kg	☼	09/22/17 17:15	09/26/17 02:40	1
Calcium	11000	B	12	2.0	mg/Kg	☼	09/22/17 17:15	09/26/17 02:40	1
Chromium	15		0.58	0.28	mg/Kg	☼	09/22/17 17:15	09/26/17 02:40	1
Cobalt	14		0.29	0.075	mg/Kg	☼	09/22/17 17:15	09/26/17 02:40	1
Copper	24		0.58	0.16	mg/Kg	☼	09/22/17 17:15	09/26/17 02:40	1
Iron	24000		12	6.0	mg/Kg	☼	09/22/17 17:15	09/26/17 02:40	1
Lead	20		0.29	0.13	mg/Kg	☼	09/22/17 17:15	09/26/17 02:40	1
Magnesium	8000		5.8	2.9	mg/Kg	☼	09/22/17 17:15	09/26/17 02:40	1
Manganese	510		0.58	0.083	mg/Kg	☼	09/22/17 17:15	09/26/17 02:40	1
Nickel	31		0.58	0.17	mg/Kg	☼	09/22/17 17:15	09/26/17 02:40	1
Potassium	1500		29	10	mg/Kg	☼	09/22/17 17:15	09/26/17 02:40	1
Selenium	<0.58		0.58	0.34	mg/Kg	☼	09/22/17 17:15	09/26/17 02:40	1
Silver	<0.29		0.29	0.074	mg/Kg	☼	09/22/17 17:15	09/26/17 02:40	1
Sodium	70		58	8.5	mg/Kg	☼	09/22/17 17:15	09/26/17 02:40	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	09/22/17 17:15	09/26/17 02:40	1
Vanadium	21		0.29	0.068	mg/Kg	☼	09/22/17 17:15	09/26/17 02:40	1
Zinc	65		1.2	0.51	mg/Kg	☼	09/22/17 17:15	09/26/17 02:40	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		09/26/17 14:10	09/27/17 07:47	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		09/25/17 16:40	09/26/17 11:03	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	33		20	6.5	ug/Kg	☼	09/23/17 13:20	09/25/17 14:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.9		0.20	0.20	SU			09/25/17 18:47	1

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134343-1

Client Sample ID: FH-8(5-10)-092017

Lab Sample ID: 500-134343-10

Date Collected: 09/20/17 13:10

Matrix: Solid

Date Received: 09/21/17 16:37

Percent Solids: 82.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	34		18	7.9	ug/Kg	☼	09/21/17 17:50	09/22/17 19:44	1
Benzene	<1.8		1.8	0.46	ug/Kg	☼	09/21/17 17:50	09/22/17 19:44	1
Bromodichloromethane	<1.8		1.8	0.37	ug/Kg	☼	09/21/17 17:50	09/22/17 19:44	1
Bromoform	<1.8		1.8	0.53	ug/Kg	☼	09/21/17 17:50	09/22/17 19:44	1
Bromomethane	<4.5		4.5	1.7	ug/Kg	☼	09/21/17 17:50	09/22/17 19:44	1
Carbon disulfide	<4.5		4.5	0.94	ug/Kg	☼	09/21/17 17:50	09/22/17 19:44	1
Carbon tetrachloride	<1.8		1.8	0.53	ug/Kg	☼	09/21/17 17:50	09/22/17 19:44	1
Chlorobenzene	<1.8		1.8	0.67	ug/Kg	☼	09/21/17 17:50	09/22/17 19:44	1
Chloroethane	<4.5 *		4.5	1.3	ug/Kg	☼	09/21/17 17:50	09/22/17 19:44	1
Chloroform	<1.8		1.8	0.63	ug/Kg	☼	09/21/17 17:50	09/22/17 19:44	1
Chloromethane	<4.5		4.5	1.8	ug/Kg	☼	09/21/17 17:50	09/22/17 19:44	1
cis-1,2-Dichloroethene	<1.8		1.8	0.51	ug/Kg	☼	09/21/17 17:50	09/22/17 19:44	1
cis-1,3-Dichloropropene	<1.8		1.8	0.55	ug/Kg	☼	09/21/17 17:50	09/22/17 19:44	1
Dibromochloromethane	<1.8		1.8	0.59	ug/Kg	☼	09/21/17 17:50	09/22/17 19:44	1
1,1-Dichloroethane	<1.8		1.8	0.62	ug/Kg	☼	09/21/17 17:50	09/22/17 19:44	1
1,2-Dichloroethane	<4.5		4.5	1.4	ug/Kg	☼	09/21/17 17:50	09/22/17 19:44	1
1,1-Dichloroethene	<1.8		1.8	0.62	ug/Kg	☼	09/21/17 17:50	09/22/17 19:44	1
1,2-Dichloropropane	<1.8		1.8	0.47	ug/Kg	☼	09/21/17 17:50	09/22/17 19:44	1
1,3-Dichloropropene, Total	<1.8		1.8	0.64	ug/Kg	☼	09/21/17 17:50	09/22/17 19:44	1
Ethylbenzene	<1.8		1.8	0.87	ug/Kg	☼	09/21/17 17:50	09/22/17 19:44	1
2-Hexanone	<4.5		4.5	1.4	ug/Kg	☼	09/21/17 17:50	09/22/17 19:44	1
Methylene Chloride	<4.5		4.5	1.8	ug/Kg	☼	09/21/17 17:50	09/22/17 19:44	1
Methyl Ethyl Ketone	<4.5		4.5	2.0	ug/Kg	☼	09/21/17 17:50	09/22/17 19:44	1
methyl isobutyl ketone	<4.5		4.5	1.3	ug/Kg	☼	09/21/17 17:50	09/22/17 19:44	1
Methyl tert-butyl ether	<1.8		1.8	0.53	ug/Kg	☼	09/21/17 17:50	09/22/17 19:44	1
Styrene	<1.8		1.8	0.55	ug/Kg	☼	09/21/17 17:50	09/22/17 19:44	1
1,1,2,2-Tetrachloroethane	<1.8		1.8	0.58	ug/Kg	☼	09/21/17 17:50	09/22/17 19:44	1
Tetrachloroethene	<1.8		1.8	0.62	ug/Kg	☼	09/21/17 17:50	09/22/17 19:44	1
Toluene	<1.8		1.8	0.46	ug/Kg	☼	09/21/17 17:50	09/22/17 19:44	1
trans-1,2-Dichloroethene	<1.8		1.8	0.80	ug/Kg	☼	09/21/17 17:50	09/22/17 19:44	1
trans-1,3-Dichloropropene	<1.8		1.8	0.64	ug/Kg	☼	09/21/17 17:50	09/22/17 19:44	1
1,1,1-Trichloroethane	<1.8		1.8	0.61	ug/Kg	☼	09/21/17 17:50	09/22/17 19:44	1
1,1,2-Trichloroethane	<1.8		1.8	0.78	ug/Kg	☼	09/21/17 17:50	09/22/17 19:44	1
Trichloroethene	<1.8		1.8	0.61	ug/Kg	☼	09/21/17 17:50	09/22/17 19:44	1
Vinyl chloride	<1.8		1.8	0.80	ug/Kg	☼	09/21/17 17:50	09/22/17 19:44	1
Xylenes, Total	<3.6		3.6	0.58	ug/Kg	☼	09/21/17 17:50	09/22/17 19:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		75 - 131	09/21/17 17:50	09/22/17 19:44	1
Dibromofluoromethane	100		75 - 126	09/21/17 17:50	09/22/17 19:44	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134	09/21/17 17:50	09/22/17 19:44	1
Toluene-d8 (Surr)	99		75 - 124	09/21/17 17:50	09/22/17 19:44	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	☼	09/26/17 06:56	09/28/17 11:59	1
1,2-Dichlorobenzene	<200		200	48	ug/Kg	☼	09/26/17 06:56	09/28/17 11:59	1
1,3-Dichlorobenzene	<200		200	45	ug/Kg	☼	09/26/17 06:56	09/28/17 11:59	1
1,4-Dichlorobenzene	<200		200	51	ug/Kg	☼	09/26/17 06:56	09/28/17 11:59	1
2,2'-oxybis[1-chloropropane]	<200		200	46	ug/Kg	☼	09/26/17 06:56	09/28/17 11:59	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134343-1

Client Sample ID: FH-8(5-10)-092017

Lab Sample ID: 500-134343-10

Date Collected: 09/20/17 13:10

Matrix: Solid

Date Received: 09/21/17 16:37

Percent Solids: 82.7

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	☼	09/26/17 06:56	09/28/17 11:59	1
2,4,6-Trichlorophenol	<400		400	140	ug/Kg	☼	09/26/17 06:56	09/28/17 11:59	1
2,4-Dichlorophenol	<400		400	95	ug/Kg	☼	09/26/17 06:56	09/28/17 11:59	1
2,4-Dimethylphenol	<400		400	150	ug/Kg	☼	09/26/17 06:56	09/28/17 11:59	1
2,4-Dinitrophenol	<800		800	700	ug/Kg	☼	09/26/17 06:56	09/28/17 11:59	1
2,4-Dinitrotoluene	<200		200	63	ug/Kg	☼	09/26/17 06:56	09/28/17 11:59	1
2,6-Dinitrotoluene	<200		200	78	ug/Kg	☼	09/26/17 06:56	09/28/17 11:59	1
2-Chloronaphthalene	<200		200	44	ug/Kg	☼	09/26/17 06:56	09/28/17 11:59	1
2-Chlorophenol	<200		200	68	ug/Kg	☼	09/26/17 06:56	09/28/17 11:59	1
2-Methylnaphthalene	13	J	80	7.3	ug/Kg	☼	09/26/17 06:56	09/28/17 11:59	1
2-Methylphenol	<200		200	64	ug/Kg	☼	09/26/17 06:56	09/28/17 11:59	1
2-Nitroaniline	<200		200	54	ug/Kg	☼	09/26/17 06:56	09/28/17 11:59	1
2-Nitrophenol	<400		400	94	ug/Kg	☼	09/26/17 06:56	09/28/17 11:59	1
3 & 4 Methylphenol	<200		200	66	ug/Kg	☼	09/26/17 06:56	09/28/17 11:59	1
3,3'-Dichlorobenzidine	<200		200	56	ug/Kg	☼	09/26/17 06:56	09/28/17 11:59	1
3-Nitroaniline	<400		400	120	ug/Kg	☼	09/26/17 06:56	09/28/17 11:59	1
4,6-Dinitro-2-methylphenol	<800		800	320	ug/Kg	☼	09/26/17 06:56	09/28/17 11:59	1
4-Bromophenyl phenyl ether	<200		200	53	ug/Kg	☼	09/26/17 06:56	09/28/17 11:59	1
4-Chloro-3-methylphenol	<400		400	140	ug/Kg	☼	09/26/17 06:56	09/28/17 11:59	1
4-Chloroaniline	<800		800	190	ug/Kg	☼	09/26/17 06:56	09/28/17 11:59	1
4-Chlorophenyl phenyl ether	<200		200	47	ug/Kg	☼	09/26/17 06:56	09/28/17 11:59	1
4-Nitroaniline	<400		400	170	ug/Kg	☼	09/26/17 06:56	09/28/17 11:59	1
4-Nitrophenol	<800		800	380	ug/Kg	☼	09/26/17 06:56	09/28/17 11:59	1
Acenaphthene	90		40	7.2	ug/Kg	☼	09/26/17 06:56	09/28/17 11:59	1
Acenaphthylene	<40		40	5.3	ug/Kg	☼	09/26/17 06:56	09/28/17 11:59	1
Anthracene	170		40	6.7	ug/Kg	☼	09/26/17 06:56	09/28/17 11:59	1
Benzo[a]anthracene	510		40	5.4	ug/Kg	☼	09/26/17 06:56	09/28/17 11:59	1
Benzo[a]pyrene	510		40	7.7	ug/Kg	☼	09/26/17 06:56	09/28/17 11:59	1
Benzo[b]fluoranthene	780		40	8.6	ug/Kg	☼	09/26/17 06:56	09/28/17 11:59	1
Benzo[g,h,i]perylene	290		40	13	ug/Kg	☼	09/26/17 06:56	09/28/17 11:59	1
Benzo[k]fluoranthene	260		40	12	ug/Kg	☼	09/26/17 06:56	09/28/17 11:59	1
Bis(2-chloroethoxy)methane	<200		200	41	ug/Kg	☼	09/26/17 06:56	09/28/17 11:59	1
Bis(2-chloroethyl)ether	<200		200	60	ug/Kg	☼	09/26/17 06:56	09/28/17 11:59	1
Bis(2-ethylhexyl) phthalate	<200		200	73	ug/Kg	☼	09/26/17 06:56	09/28/17 11:59	1
Butyl benzyl phthalate	<200		200	76	ug/Kg	☼	09/26/17 06:56	09/28/17 11:59	1
Carbazole	130	J	200	100	ug/Kg	☼	09/26/17 06:56	09/28/17 11:59	1
Chrysene	590		40	11	ug/Kg	☼	09/26/17 06:56	09/28/17 11:59	1
Dibenz(a,h)anthracene	76		40	7.7	ug/Kg	☼	09/26/17 06:56	09/28/17 11:59	1
Dibenzofuran	52	J	200	47	ug/Kg	☼	09/26/17 06:56	09/28/17 11:59	1
Diethyl phthalate	<200		200	68	ug/Kg	☼	09/26/17 06:56	09/28/17 11:59	1
Dimethyl phthalate	<200		200	52	ug/Kg	☼	09/26/17 06:56	09/28/17 11:59	1
Di-n-butyl phthalate	<200		200	61	ug/Kg	☼	09/26/17 06:56	09/28/17 11:59	1
Di-n-octyl phthalate	<200		200	65	ug/Kg	☼	09/26/17 06:56	09/28/17 11:59	1
Fluoranthene	1300		40	7.4	ug/Kg	☼	09/26/17 06:56	09/28/17 11:59	1
Fluorene	97		40	5.6	ug/Kg	☼	09/26/17 06:56	09/28/17 11:59	1
Hexachlorobenzene	<80		80	9.2	ug/Kg	☼	09/26/17 06:56	09/28/17 11:59	1
Hexachlorobutadiene	<200		200	63	ug/Kg	☼	09/26/17 06:56	09/28/17 11:59	1
Hexachlorocyclopentadiene	<800		800	230	ug/Kg	☼	09/26/17 06:56	09/28/17 11:59	1
Hexachloroethane	<200		200	61	ug/Kg	☼	09/26/17 06:56	09/28/17 11:59	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134343-1

Client Sample ID: FH-8(5-10)-092017

Lab Sample ID: 500-134343-10

Date Collected: 09/20/17 13:10

Matrix: Solid

Date Received: 09/21/17 16:37

Percent Solids: 82.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	280		40	10	ug/Kg	☼	09/26/17 06:56	09/28/17 11:59	1
Isophorone	<200		200	45	ug/Kg	☼	09/26/17 06:56	09/28/17 11:59	1
Naphthalene	15	J	40	6.1	ug/Kg	☼	09/26/17 06:56	09/28/17 11:59	1
Nitrobenzene	<40		40	9.9	ug/Kg	☼	09/26/17 06:56	09/28/17 11:59	1
N-Nitrosodi-n-propylamine	<80		80	49	ug/Kg	☼	09/26/17 06:56	09/28/17 11:59	1
N-Nitrosodiphenylamine	<200		200	47	ug/Kg	☼	09/26/17 06:56	09/28/17 11:59	1
Pentachlorophenol	<800		800	640	ug/Kg	☼	09/26/17 06:56	09/28/17 11:59	1
Phenanthrene	900		40	5.6	ug/Kg	☼	09/26/17 06:56	09/28/17 11:59	1
Phenol	<200		200	88	ug/Kg	☼	09/26/17 06:56	09/28/17 11:59	1
Pyrene	1000		40	7.9	ug/Kg	☼	09/26/17 06:56	09/28/17 11:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	96		25 - 139				09/26/17 06:56	09/28/17 11:59	1
2-Fluorobiphenyl	88		44 - 121				09/26/17 06:56	09/28/17 11:59	1
2-Fluorophenol	123		46 - 133				09/26/17 06:56	09/28/17 11:59	1
Nitrobenzene-d5	87		41 - 120				09/26/17 06:56	09/28/17 11:59	1
Phenol-d5	106		46 - 125				09/26/17 06:56	09/28/17 11:59	1
Terphenyl-d14	95		35 - 160				09/26/17 06:56	09/28/17 11:59	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		09/26/17 15:02	09/27/17 13:40	1
Barium	0.40	J	0.50	0.050	mg/L		09/26/17 15:02	09/27/17 13:40	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/26/17 15:02	09/27/17 13:40	1
Cadmium	0.0022	J	0.0050	0.0020	mg/L		09/26/17 15:02	09/27/17 13:40	1
Chromium	<0.025		0.025	0.010	mg/L		09/26/17 15:02	09/27/17 13:40	1
Cobalt	0.032		0.025	0.010	mg/L		09/26/17 15:02	09/27/17 13:40	1
Copper	<0.20		0.20	0.010	mg/L		09/26/17 15:02	09/27/17 13:40	1
Iron	<0.40		0.40	0.20	mg/L		09/26/17 15:02	09/27/17 13:40	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/26/17 15:02	09/27/17 13:40	1
Manganese	8.3		0.025	0.010	mg/L		09/26/17 15:02	09/27/17 13:40	1
Nickel	0.031		0.025	0.010	mg/L		09/26/17 15:02	09/27/17 13:40	1
Selenium	<0.050		0.050	0.020	mg/L		09/26/17 15:02	09/27/17 13:40	1
Silver	<0.025		0.025	0.010	mg/L		09/26/17 15:02	09/27/17 13:40	1
Zinc	0.042	J B	0.50	0.020	mg/L		09/26/17 15:02	09/27/17 13:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/25/17 07:11	09/25/17 22:02	1
Barium	0.16	J	0.50	0.050	mg/L		09/25/17 07:11	09/25/17 22:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/25/17 07:11	09/25/17 22:02	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/25/17 07:11	09/25/17 22:02	1
Chromium	0.017	J	0.025	0.010	mg/L		09/25/17 07:11	09/26/17 20:22	1
Cobalt	<0.025		0.025	0.010	mg/L		09/25/17 07:11	09/25/17 22:02	1
Copper	0.039		0.025	0.010	mg/L		09/25/17 07:11	09/25/17 22:02	1
Iron	13		0.40	0.20	mg/L		09/25/17 07:11	09/25/17 22:02	1
Lead	0.022		0.0075	0.0075	mg/L		09/25/17 07:11	09/25/17 22:02	1
Manganese	0.45		0.025	0.010	mg/L		09/25/17 07:11	09/25/17 22:02	1
Nickel	0.015	J	0.025	0.010	mg/L		09/25/17 07:11	09/25/17 22:02	1
Selenium	<0.050		0.050	0.020	mg/L		09/25/17 07:11	09/25/17 22:02	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134343-1

Client Sample ID: FH-8(5-10)-092017

Lab Sample ID: 500-134343-10

Date Collected: 09/20/17 13:10

Matrix: Solid

Date Received: 09/21/17 16:37

Percent Solids: 82.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		09/25/17 07:11	09/25/17 22:02	1
Zinc	0.089	J	0.50	0.020	mg/L		09/25/17 07:11	09/25/17 22:02	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	☼	09/22/17 17:15	09/26/17 02:52	1
Arsenic	7.5		0.57	0.20	mg/Kg	☼	09/22/17 17:15	09/26/17 02:52	1
Barium	50		0.57	0.065	mg/Kg	☼	09/22/17 17:15	09/26/17 02:52	1
Beryllium	0.61		0.23	0.053	mg/Kg	☼	09/22/17 17:15	09/26/17 02:52	1
Cadmium	0.24	B	0.11	0.021	mg/Kg	☼	09/22/17 17:15	09/26/17 02:52	1
Calcium	19000	B	11	1.9	mg/Kg	☼	09/22/17 17:15	09/26/17 02:52	1
Chromium	15		0.57	0.28	mg/Kg	☼	09/22/17 17:15	09/26/17 02:52	1
Cobalt	11		0.29	0.075	mg/Kg	☼	09/22/17 17:15	09/26/17 02:52	1
Copper	23		0.57	0.16	mg/Kg	☼	09/22/17 17:15	09/26/17 02:52	1
Iron	18000		11	5.9	mg/Kg	☼	09/22/17 17:15	09/26/17 02:52	1
Lead	27		0.29	0.13	mg/Kg	☼	09/22/17 17:15	09/26/17 02:52	1
Magnesium	12000		5.7	2.8	mg/Kg	☼	09/22/17 17:15	09/26/17 02:52	1
Manganese	340		0.57	0.083	mg/Kg	☼	09/22/17 17:15	09/26/17 02:52	1
Nickel	27		0.57	0.17	mg/Kg	☼	09/22/17 17:15	09/26/17 02:52	1
Potassium	1700		29	10	mg/Kg	☼	09/22/17 17:15	09/26/17 02:52	1
Selenium	<0.57		0.57	0.34	mg/Kg	☼	09/22/17 17:15	09/26/17 02:52	1
Silver	<0.29		0.29	0.074	mg/Kg	☼	09/22/17 17:15	09/26/17 02:52	1
Sodium	82		57	8.5	mg/Kg	☼	09/22/17 17:15	09/26/17 02:52	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	09/22/17 17:15	09/26/17 02:52	1
Vanadium	21		0.29	0.067	mg/Kg	☼	09/22/17 17:15	09/26/17 02:52	1
Zinc	66		1.1	0.50	mg/Kg	☼	09/22/17 17:15	09/26/17 02:52	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		09/26/17 14:10	09/27/17 07:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		09/25/17 16:40	09/26/17 11:05	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	48		18	6.2	ug/Kg	☼	09/23/17 13:20	09/25/17 14:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.9		0.20	0.20	SU			09/25/17 19:02	1

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134343-1

Client Sample ID: FH-9(0-5)-092017

Lab Sample ID: 500-134343-16

Date Collected: 09/20/17 14:32

Matrix: Solid

Date Received: 09/21/17 16:37

Percent Solids: 90.1

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	☼	09/21/17 17:50	09/23/17 17:49	1
Benzene	<1.9		1.9	0.49	ug/Kg	☼	09/21/17 17:50	09/23/17 17:49	1
Bromodichloromethane	<1.9		1.9	0.39	ug/Kg	☼	09/21/17 17:50	09/23/17 17:49	1
Bromoform	<1.9		1.9	0.56	ug/Kg	☼	09/21/17 17:50	09/23/17 17:49	1
Bromomethane	<4.8		4.8	1.8	ug/Kg	☼	09/21/17 17:50	09/23/17 17:49	1
Carbon disulfide	<4.8		4.8	0.99	ug/Kg	☼	09/21/17 17:50	09/23/17 17:49	1
Carbon tetrachloride	<1.9		1.9	0.55	ug/Kg	☼	09/21/17 17:50	09/23/17 17:49	1
Chlorobenzene	<1.9		1.9	0.71	ug/Kg	☼	09/21/17 17:50	09/23/17 17:49	1
Chloroethane	<4.8		4.8	1.4	ug/Kg	☼	09/21/17 17:50	09/23/17 17:49	1
Chloroform	<1.9		1.9	0.66	ug/Kg	☼	09/21/17 17:50	09/23/17 17:49	1
Chloromethane	<4.8		4.8	1.9	ug/Kg	☼	09/21/17 17:50	09/23/17 17:49	1
cis-1,2-Dichloroethene	<1.9		1.9	0.53	ug/Kg	☼	09/21/17 17:50	09/23/17 17:49	1
cis-1,3-Dichloropropene	<1.9		1.9	0.58	ug/Kg	☼	09/21/17 17:50	09/23/17 17:49	1
Dibromochloromethane	<1.9		1.9	0.63	ug/Kg	☼	09/21/17 17:50	09/23/17 17:49	1
1,1-Dichloroethane	<1.9		1.9	0.66	ug/Kg	☼	09/21/17 17:50	09/23/17 17:49	1
1,2-Dichloroethane	<4.8		4.8	1.5	ug/Kg	☼	09/21/17 17:50	09/23/17 17:49	1
1,1-Dichloroethene	<1.9		1.9	0.66	ug/Kg	☼	09/21/17 17:50	09/23/17 17:49	1
1,2-Dichloropropane	<1.9		1.9	0.49	ug/Kg	☼	09/21/17 17:50	09/23/17 17:49	1
1,3-Dichloropropene, Total	<1.9		1.9	0.67	ug/Kg	☼	09/21/17 17:50	09/23/17 17:49	1
Ethylbenzene	<1.9		1.9	0.92	ug/Kg	☼	09/21/17 17:50	09/23/17 17:49	1
2-Hexanone	<4.8		4.8	1.5	ug/Kg	☼	09/21/17 17:50	09/23/17 17:49	1
Methylene Chloride	<4.8		4.8	1.9	ug/Kg	☼	09/21/17 17:50	09/23/17 17:49	1
Methyl Ethyl Ketone	<4.8		4.8	2.1	ug/Kg	☼	09/21/17 17:50	09/23/17 17:49	1
methyl isobutyl ketone	<4.8		4.8	1.4	ug/Kg	☼	09/21/17 17:50	09/23/17 17:49	1
Methyl tert-butyl ether	<1.9		1.9	0.56	ug/Kg	☼	09/21/17 17:50	09/23/17 17:49	1
Styrene	<1.9		1.9	0.58	ug/Kg	☼	09/21/17 17:50	09/23/17 17:49	1
1,1,2,2-Tetrachloroethane	<1.9		1.9	0.61	ug/Kg	☼	09/21/17 17:50	09/23/17 17:49	1
Tetrachloroethene	<1.9		1.9	0.65	ug/Kg	☼	09/21/17 17:50	09/23/17 17:49	1
Toluene	<1.9		1.9	0.48	ug/Kg	☼	09/21/17 17:50	09/23/17 17:49	1
trans-1,2-Dichloroethene	<1.9		1.9	0.85	ug/Kg	☼	09/21/17 17:50	09/23/17 17:49	1
trans-1,3-Dichloropropene	<1.9		1.9	0.67	ug/Kg	☼	09/21/17 17:50	09/23/17 17:49	1
1,1,1-Trichloroethane	<1.9		1.9	0.64	ug/Kg	☼	09/21/17 17:50	09/23/17 17:49	1
1,1,2-Trichloroethane	<1.9		1.9	0.82	ug/Kg	☼	09/21/17 17:50	09/23/17 17:49	1
Trichloroethene	<1.9		1.9	0.65	ug/Kg	☼	09/21/17 17:50	09/23/17 17:49	1
Vinyl chloride	<1.9		1.9	0.85	ug/Kg	☼	09/21/17 17:50	09/23/17 17:49	1
Xylenes, Total	<3.8		3.8	0.61	ug/Kg	☼	09/21/17 17:50	09/23/17 17:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		75 - 131	09/21/17 17:50	09/23/17 17:49	1
Dibromofluoromethane	104		75 - 126	09/21/17 17:50	09/23/17 17:49	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134	09/21/17 17:50	09/23/17 17:49	1
Toluene-d8 (Surr)	98		75 - 124	09/21/17 17:50	09/23/17 17:49	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	☼	09/26/17 06:56	09/28/17 14:25	1
1,2-Dichlorobenzene	<180		180	43	ug/Kg	☼	09/26/17 06:56	09/28/17 14:25	1
1,3-Dichlorobenzene	<180		180	40	ug/Kg	☼	09/26/17 06:56	09/28/17 14:25	1
1,4-Dichlorobenzene	<180		180	46	ug/Kg	☼	09/26/17 06:56	09/28/17 14:25	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	09/26/17 06:56	09/28/17 14:25	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134343-1

Client Sample ID: FH-9(0-5)-092017

Lab Sample ID: 500-134343-16

Date Collected: 09/20/17 14:32

Matrix: Solid

Date Received: 09/21/17 16:37

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	☼	09/26/17 06:56	09/28/17 14:25	1
2,4,6-Trichlorophenol	<360		360	120	ug/Kg	☼	09/26/17 06:56	09/28/17 14:25	1
2,4-Dichlorophenol	<360		360	85	ug/Kg	☼	09/26/17 06:56	09/28/17 14:25	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	09/26/17 06:56	09/28/17 14:25	1
2,4-Dinitrophenol	<720		720	630	ug/Kg	☼	09/26/17 06:56	09/28/17 14:25	1
2,4-Dinitrotoluene	<180		180	57	ug/Kg	☼	09/26/17 06:56	09/28/17 14:25	1
2,6-Dinitrotoluene	<180		180	70	ug/Kg	☼	09/26/17 06:56	09/28/17 14:25	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	09/26/17 06:56	09/28/17 14:25	1
2-Chlorophenol	<180		180	61	ug/Kg	☼	09/26/17 06:56	09/28/17 14:25	1
2-Methylnaphthalene	<72		72	6.6	ug/Kg	☼	09/26/17 06:56	09/28/17 14:25	1
2-Methylphenol	<180		180	58	ug/Kg	☼	09/26/17 06:56	09/28/17 14:25	1
2-Nitroaniline	<180		180	48	ug/Kg	☼	09/26/17 06:56	09/28/17 14:25	1
2-Nitrophenol	<360		360	85	ug/Kg	☼	09/26/17 06:56	09/28/17 14:25	1
3 & 4 Methylphenol	<180		180	60	ug/Kg	☼	09/26/17 06:56	09/28/17 14:25	1
3,3'-Dichlorobenzidine	<180		180	50	ug/Kg	☼	09/26/17 06:56	09/28/17 14:25	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	09/26/17 06:56	09/28/17 14:25	1
4,6-Dinitro-2-methylphenol	<720		720	290	ug/Kg	☼	09/26/17 06:56	09/28/17 14:25	1
4-Bromophenyl phenyl ether	<180		180	47	ug/Kg	☼	09/26/17 06:56	09/28/17 14:25	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	09/26/17 06:56	09/28/17 14:25	1
4-Chloroaniline	<720		720	170	ug/Kg	☼	09/26/17 06:56	09/28/17 14:25	1
4-Chlorophenyl phenyl ether	<180		180	42	ug/Kg	☼	09/26/17 06:56	09/28/17 14:25	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	09/26/17 06:56	09/28/17 14:25	1
4-Nitrophenol	<720		720	340	ug/Kg	☼	09/26/17 06:56	09/28/17 14:25	1
Acenaphthene	21	J	36	6.4	ug/Kg	☼	09/26/17 06:56	09/28/17 14:25	1
Acenaphthylene	<36		36	4.7	ug/Kg	☼	09/26/17 06:56	09/28/17 14:25	1
Anthracene	47		36	6.0	ug/Kg	☼	09/26/17 06:56	09/28/17 14:25	1
Benzo[a]anthracene	160		36	4.8	ug/Kg	☼	09/26/17 06:56	09/28/17 14:25	1
Benzo[a]pyrene	170		36	6.9	ug/Kg	☼	09/26/17 06:56	09/28/17 14:25	1
Benzo[b]fluoranthene	260		36	7.7	ug/Kg	☼	09/26/17 06:56	09/28/17 14:25	1
Benzo[g,h,i]perylene	82		36	12	ug/Kg	☼	09/26/17 06:56	09/28/17 14:25	1
Benzo[k]fluoranthene	110		36	11	ug/Kg	☼	09/26/17 06:56	09/28/17 14:25	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	09/26/17 06:56	09/28/17 14:25	1
Bis(2-chloroethyl)ether	<180		180	54	ug/Kg	☼	09/26/17 06:56	09/28/17 14:25	1
Bis(2-ethylhexyl) phthalate	<180		180	65	ug/Kg	☼	09/26/17 06:56	09/28/17 14:25	1
Butyl benzyl phthalate	<180		180	68	ug/Kg	☼	09/26/17 06:56	09/28/17 14:25	1
Carbazole	<180		180	90	ug/Kg	☼	09/26/17 06:56	09/28/17 14:25	1
Chrysene	190		36	9.8	ug/Kg	☼	09/26/17 06:56	09/28/17 14:25	1
Dibenz(a,h)anthracene	23	J	36	6.9	ug/Kg	☼	09/26/17 06:56	09/28/17 14:25	1
Dibenzofuran	<180		180	42	ug/Kg	☼	09/26/17 06:56	09/28/17 14:25	1
Diethyl phthalate	<180		180	61	ug/Kg	☼	09/26/17 06:56	09/28/17 14:25	1
Dimethyl phthalate	<180		180	47	ug/Kg	☼	09/26/17 06:56	09/28/17 14:25	1
Di-n-butyl phthalate	<180		180	55	ug/Kg	☼	09/26/17 06:56	09/28/17 14:25	1
Di-n-octyl phthalate	<180		180	58	ug/Kg	☼	09/26/17 06:56	09/28/17 14:25	1
Fluoranthene	410		36	6.6	ug/Kg	☼	09/26/17 06:56	09/28/17 14:25	1
Fluorene	23	J	36	5.0	ug/Kg	☼	09/26/17 06:56	09/28/17 14:25	1
Hexachlorobenzene	<72		72	8.3	ug/Kg	☼	09/26/17 06:56	09/28/17 14:25	1
Hexachlorobutadiene	<180		180	56	ug/Kg	☼	09/26/17 06:56	09/28/17 14:25	1
Hexachlorocyclopentadiene	<720		720	210	ug/Kg	☼	09/26/17 06:56	09/28/17 14:25	1
Hexachloroethane	<180		180	54	ug/Kg	☼	09/26/17 06:56	09/28/17 14:25	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134343-1

Client Sample ID: FH-9(0-5)-092017

Lab Sample ID: 500-134343-16

Date Collected: 09/20/17 14:32

Matrix: Solid

Date Received: 09/21/17 16:37

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	75		36	9.3	ug/Kg	☼	09/26/17 06:56	09/28/17 14:25	1
Isophorone	<180		180	40	ug/Kg	☼	09/26/17 06:56	09/28/17 14:25	1
Naphthalene	<36		36	5.5	ug/Kg	☼	09/26/17 06:56	09/28/17 14:25	1
Nitrobenzene	<36		36	8.9	ug/Kg	☼	09/26/17 06:56	09/28/17 14:25	1
N-Nitrosodi-n-propylamine	<72		72	44	ug/Kg	☼	09/26/17 06:56	09/28/17 14:25	1
N-Nitrosodiphenylamine	<180		180	42	ug/Kg	☼	09/26/17 06:56	09/28/17 14:25	1
Pentachlorophenol	<720		720	580	ug/Kg	☼	09/26/17 06:56	09/28/17 14:25	1
Phenanthrene	250		36	5.0	ug/Kg	☼	09/26/17 06:56	09/28/17 14:25	1
Phenol	<180		180	80	ug/Kg	☼	09/26/17 06:56	09/28/17 14:25	1
Pyrene	320		36	7.1	ug/Kg	☼	09/26/17 06:56	09/28/17 14:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	92		25 - 139				09/26/17 06:56	09/28/17 14:25	1
2-Fluorobiphenyl	92		44 - 121				09/26/17 06:56	09/28/17 14:25	1
2-Fluorophenol	107		46 - 133				09/26/17 06:56	09/28/17 14:25	1
Nitrobenzene-d5	84		41 - 120				09/26/17 06:56	09/28/17 14:25	1
Phenol-d5	103		46 - 125				09/26/17 06:56	09/28/17 14:25	1
Terphenyl-d14	99		35 - 160				09/26/17 06:56	09/28/17 14:25	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		09/26/17 15:02	09/27/17 14:13	1
Barium	0.35	J	0.50	0.050	mg/L		09/26/17 15:02	09/27/17 14:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/26/17 15:02	09/27/17 14:13	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/26/17 15:02	09/27/17 14:13	1
Chromium	<0.025		0.025	0.010	mg/L		09/26/17 15:02	09/27/17 14:13	1
Cobalt	<0.025		0.025	0.010	mg/L		09/26/17 15:02	09/27/17 14:13	1
Copper	<0.20		0.20	0.010	mg/L		09/26/17 15:02	09/27/17 14:13	1
Iron	<0.40		0.40	0.20	mg/L		09/26/17 15:02	09/27/17 14:13	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/26/17 15:02	09/27/17 14:13	1
Manganese	0.10		0.025	0.010	mg/L		09/26/17 15:02	09/27/17 14:13	1
Nickel	<0.025		0.025	0.010	mg/L		09/26/17 15:02	09/27/17 14:13	1
Selenium	<0.050		0.050	0.020	mg/L		09/26/17 15:02	09/27/17 14:13	1
Silver	<0.025		0.025	0.010	mg/L		09/26/17 15:02	09/27/17 14:13	1
Zinc	<0.50		0.50	0.020	mg/L		09/26/17 15:02	09/27/17 14:13	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		09/25/17 07:11	09/25/17 22:25	1
Barium	0.14	J	0.50	0.050	mg/L		09/25/17 07:11	09/25/17 22:25	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/25/17 07:11	09/25/17 22:25	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/25/17 07:11	09/25/17 22:25	1
Chromium	0.021	J	0.025	0.010	mg/L		09/25/17 07:11	09/26/17 20:45	1
Cobalt	<0.025		0.025	0.010	mg/L		09/25/17 07:11	09/25/17 22:25	1
Copper	0.033		0.025	0.010	mg/L		09/25/17 07:11	09/25/17 22:25	1
Iron	17		0.40	0.20	mg/L		09/25/17 07:11	09/25/17 22:25	1
Lead	0.013		0.0075	0.0075	mg/L		09/25/17 07:11	09/25/17 22:25	1
Manganese	0.089		0.025	0.010	mg/L		09/25/17 07:11	09/25/17 22:25	1
Nickel	0.017	J	0.025	0.010	mg/L		09/25/17 07:11	09/25/17 22:25	1
Selenium	<0.050		0.050	0.020	mg/L		09/25/17 07:11	09/25/17 22:25	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134343-1

Client Sample ID: FH-9(0-5)-092017

Lab Sample ID: 500-134343-16

Date Collected: 09/20/17 14:32

Matrix: Solid

Date Received: 09/21/17 16:37

Percent Solids: 90.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		09/25/17 07:11	09/25/17 22:25	1
Zinc	0.083	J	0.50	0.020	mg/L		09/25/17 07:11	09/25/17 22:25	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.20	mg/Kg	☼	09/22/17 17:15	09/26/17 03:16	1
Arsenic	9.0		0.52	0.18	mg/Kg	☼	09/22/17 17:15	09/26/17 03:16	1
Barium	48		0.52	0.059	mg/Kg	☼	09/22/17 17:15	09/26/17 03:16	1
Beryllium	0.65		0.21	0.048	mg/Kg	☼	09/22/17 17:15	09/26/17 03:16	1
Cadmium	0.30	B	0.10	0.019	mg/Kg	☼	09/22/17 17:15	09/26/17 03:16	1
Calcium	66000	B	100	18	mg/Kg	☼	09/22/17 17:15	09/26/17 21:07	10
Chromium	16		0.52	0.26	mg/Kg	☼	09/22/17 17:15	09/26/17 03:16	1
Cobalt	17		0.26	0.068	mg/Kg	☼	09/22/17 17:15	09/26/17 03:16	1
Copper	27		0.52	0.15	mg/Kg	☼	09/22/17 17:15	09/26/17 03:16	1
Iron	20000		10	5.4	mg/Kg	☼	09/22/17 17:15	09/26/17 03:16	1
Lead	18		0.26	0.12	mg/Kg	☼	09/22/17 17:15	09/26/17 03:16	1
Magnesium	19000		5.2	2.6	mg/Kg	☼	09/22/17 17:15	09/26/17 03:16	1
Manganese	550		0.52	0.075	mg/Kg	☼	09/22/17 17:15	09/26/17 03:16	1
Nickel	45		0.52	0.15	mg/Kg	☼	09/22/17 17:15	09/26/17 03:16	1
Potassium	2200		26	9.2	mg/Kg	☼	09/22/17 17:15	09/26/17 03:16	1
Selenium	<0.52		0.52	0.30	mg/Kg	☼	09/22/17 17:15	09/26/17 03:16	1
Silver	<0.26		0.26	0.067	mg/Kg	☼	09/22/17 17:15	09/26/17 03:16	1
Sodium	92		52	7.7	mg/Kg	☼	09/22/17 17:15	09/26/17 03:16	1
Thallium	0.37	J	0.52	0.26	mg/Kg	☼	09/22/17 17:15	09/26/17 03:16	1
Vanadium	20		0.26	0.061	mg/Kg	☼	09/22/17 17:15	09/26/17 03:16	1
Zinc	62		1.0	0.45	mg/Kg	☼	09/22/17 17:15	09/26/17 03:16	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		09/26/17 14:10	09/27/17 07:57	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		09/25/17 16:40	09/26/17 11:17	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	34		18	5.9	ug/Kg	☼	09/23/17 13:20	09/25/17 14:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.7		0.20	0.20	SU			09/25/17 20:52	1

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134343-1

Client Sample ID: FH-9(5-10)-092017

Lab Sample ID: 500-134343-17

Date Collected: 09/20/17 14:44

Matrix: Solid

Date Received: 09/21/17 16:37

Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	17		16	6.8	ug/Kg	☼	09/21/17 17:50	09/23/17 18:14	1
Benzene	<1.6		1.6	0.40	ug/Kg	☼	09/21/17 17:50	09/23/17 18:14	1
Bromodichloromethane	<1.6		1.6	0.32	ug/Kg	☼	09/21/17 17:50	09/23/17 18:14	1
Bromoform	<1.6		1.6	0.46	ug/Kg	☼	09/21/17 17:50	09/23/17 18:14	1
Bromomethane	<3.9		3.9	1.5	ug/Kg	☼	09/21/17 17:50	09/23/17 18:14	1
Carbon disulfide	<3.9		3.9	0.82	ug/Kg	☼	09/21/17 17:50	09/23/17 18:14	1
Carbon tetrachloride	<1.6		1.6	0.46	ug/Kg	☼	09/21/17 17:50	09/23/17 18:14	1
Chlorobenzene	<1.6		1.6	0.58	ug/Kg	☼	09/21/17 17:50	09/23/17 18:14	1
Chloroethane	<3.9		3.9	1.2	ug/Kg	☼	09/21/17 17:50	09/23/17 18:14	1
Chloroform	<1.6		1.6	0.54	ug/Kg	☼	09/21/17 17:50	09/23/17 18:14	1
Chloromethane	<3.9		3.9	1.6	ug/Kg	☼	09/21/17 17:50	09/23/17 18:14	1
cis-1,2-Dichloroethene	<1.6		1.6	0.44	ug/Kg	☼	09/21/17 17:50	09/23/17 18:14	1
cis-1,3-Dichloropropene	<1.6		1.6	0.47	ug/Kg	☼	09/21/17 17:50	09/23/17 18:14	1
Dibromochloromethane	<1.6		1.6	0.51	ug/Kg	☼	09/21/17 17:50	09/23/17 18:14	1
1,1-Dichloroethane	<1.6		1.6	0.54	ug/Kg	☼	09/21/17 17:50	09/23/17 18:14	1
1,2-Dichloroethane	<3.9		3.9	1.2	ug/Kg	☼	09/21/17 17:50	09/23/17 18:14	1
1,1-Dichloroethene	<1.6		1.6	0.54	ug/Kg	☼	09/21/17 17:50	09/23/17 18:14	1
1,2-Dichloropropane	<1.6		1.6	0.41	ug/Kg	☼	09/21/17 17:50	09/23/17 18:14	1
1,3-Dichloropropene, Total	<1.6		1.6	0.55	ug/Kg	☼	09/21/17 17:50	09/23/17 18:14	1
Ethylbenzene	<1.6		1.6	0.75	ug/Kg	☼	09/21/17 17:50	09/23/17 18:14	1
2-Hexanone	<3.9		3.9	1.2	ug/Kg	☼	09/21/17 17:50	09/23/17 18:14	1
Methylene Chloride	<3.9		3.9	1.5	ug/Kg	☼	09/21/17 17:50	09/23/17 18:14	1
Methyl Ethyl Ketone	<3.9		3.9	1.7	ug/Kg	☼	09/21/17 17:50	09/23/17 18:14	1
methyl isobutyl ketone	<3.9		3.9	1.2	ug/Kg	☼	09/21/17 17:50	09/23/17 18:14	1
Methyl tert-butyl ether	<1.6		1.6	0.46	ug/Kg	☼	09/21/17 17:50	09/23/17 18:14	1
Styrene	<1.6		1.6	0.47	ug/Kg	☼	09/21/17 17:50	09/23/17 18:14	1
1,1,2,2-Tetrachloroethane	<1.6		1.6	0.50	ug/Kg	☼	09/21/17 17:50	09/23/17 18:14	1
Tetrachloroethene	<1.6		1.6	0.53	ug/Kg	☼	09/21/17 17:50	09/23/17 18:14	1
Toluene	<1.6		1.6	0.40	ug/Kg	☼	09/21/17 17:50	09/23/17 18:14	1
trans-1,2-Dichloroethene	<1.6		1.6	0.70	ug/Kg	☼	09/21/17 17:50	09/23/17 18:14	1
trans-1,3-Dichloropropene	<1.6		1.6	0.55	ug/Kg	☼	09/21/17 17:50	09/23/17 18:14	1
1,1,1-Trichloroethane	<1.6		1.6	0.53	ug/Kg	☼	09/21/17 17:50	09/23/17 18:14	1
1,1,2-Trichloroethane	<1.6		1.6	0.67	ug/Kg	☼	09/21/17 17:50	09/23/17 18:14	1
Trichloroethene	<1.6		1.6	0.53	ug/Kg	☼	09/21/17 17:50	09/23/17 18:14	1
Vinyl chloride	<1.6		1.6	0.69	ug/Kg	☼	09/21/17 17:50	09/23/17 18:14	1
Xylenes, Total	<3.1		3.1	0.50	ug/Kg	☼	09/21/17 17:50	09/23/17 18:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		75 - 131	09/21/17 17:50	09/23/17 18:14	1
Dibromofluoromethane	103		75 - 126	09/21/17 17:50	09/23/17 18:14	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134	09/21/17 17:50	09/23/17 18:14	1
Toluene-d8 (Surr)	100		75 - 124	09/21/17 17:50	09/23/17 18:14	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	42	ug/Kg	☼	09/26/17 06:56	09/28/17 14:50	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	09/26/17 06:56	09/28/17 14:50	1
1,3-Dichlorobenzene	<190		190	44	ug/Kg	☼	09/26/17 06:56	09/28/17 14:50	1
1,4-Dichlorobenzene	<190		190	50	ug/Kg	☼	09/26/17 06:56	09/28/17 14:50	1
2,2'-oxybis[1-chloropropane]	<190		190	45	ug/Kg	☼	09/26/17 06:56	09/28/17 14:50	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134343-1

Client Sample ID: FH-9(5-10)-092017

Lab Sample ID: 500-134343-17

Date Collected: 09/20/17 14:44

Matrix: Solid

Date Received: 09/21/17 16:37

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	<390		390	88	ug/Kg	☼	09/26/17 06:56	09/28/17 14:50	1
2,4,6-Trichlorophenol	<390		390	130	ug/Kg	☼	09/26/17 06:56	09/28/17 14:50	1
2,4-Dichlorophenol	<390		390	92	ug/Kg	☼	09/26/17 06:56	09/28/17 14:50	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	09/26/17 06:56	09/28/17 14:50	1
2,4-Dinitrophenol	<780		780	680	ug/Kg	☼	09/26/17 06:56	09/28/17 14:50	1
2,4-Dinitrotoluene	<190		190	62	ug/Kg	☼	09/26/17 06:56	09/28/17 14:50	1
2,6-Dinitrotoluene	<190		190	76	ug/Kg	☼	09/26/17 06:56	09/28/17 14:50	1
2-Chloronaphthalene	<190		190	43	ug/Kg	☼	09/26/17 06:56	09/28/17 14:50	1
2-Chlorophenol	<190		190	66	ug/Kg	☼	09/26/17 06:56	09/28/17 14:50	1
2-Methylnaphthalene	<78		78	7.1	ug/Kg	☼	09/26/17 06:56	09/28/17 14:50	1
2-Methylphenol	<190		190	62	ug/Kg	☼	09/26/17 06:56	09/28/17 14:50	1
2-Nitroaniline	<190		190	52	ug/Kg	☼	09/26/17 06:56	09/28/17 14:50	1
2-Nitrophenol	<390		390	92	ug/Kg	☼	09/26/17 06:56	09/28/17 14:50	1
3 & 4 Methylphenol	<190		190	65	ug/Kg	☼	09/26/17 06:56	09/28/17 14:50	1
3,3'-Dichlorobenzidine	<190		190	54	ug/Kg	☼	09/26/17 06:56	09/28/17 14:50	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	09/26/17 06:56	09/28/17 14:50	1
4,6-Dinitro-2-methylphenol	<780		780	310	ug/Kg	☼	09/26/17 06:56	09/28/17 14:50	1
4-Bromophenyl phenyl ether	<190		190	51	ug/Kg	☼	09/26/17 06:56	09/28/17 14:50	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	09/26/17 06:56	09/28/17 14:50	1
4-Chloroaniline	<780		780	180	ug/Kg	☼	09/26/17 06:56	09/28/17 14:50	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	09/26/17 06:56	09/28/17 14:50	1
4-Nitroaniline	<390		390	160	ug/Kg	☼	09/26/17 06:56	09/28/17 14:50	1
4-Nitrophenol	<780		780	370	ug/Kg	☼	09/26/17 06:56	09/28/17 14:50	1
Acenaphthene	<39		39	7.0	ug/Kg	☼	09/26/17 06:56	09/28/17 14:50	1
Acenaphthylene	<39		39	5.1	ug/Kg	☼	09/26/17 06:56	09/28/17 14:50	1
Anthracene	<39		39	6.5	ug/Kg	☼	09/26/17 06:56	09/28/17 14:50	1
Benzo[a]anthracene	17 J		39	5.2	ug/Kg	☼	09/26/17 06:56	09/28/17 14:50	1
Benzo[a]pyrene	20 J		39	7.5	ug/Kg	☼	09/26/17 06:56	09/28/17 14:50	1
Benzo[b]fluoranthene	24 J		39	8.4	ug/Kg	☼	09/26/17 06:56	09/28/17 14:50	1
Benzo[g,h,i]perylene	<39		39	12	ug/Kg	☼	09/26/17 06:56	09/28/17 14:50	1
Benzo[k]fluoranthene	12 J		39	11	ug/Kg	☼	09/26/17 06:56	09/28/17 14:50	1
Bis(2-chloroethoxy)methane	<190		190	40	ug/Kg	☼	09/26/17 06:56	09/28/17 14:50	1
Bis(2-chloroethyl)ether	<190		190	58	ug/Kg	☼	09/26/17 06:56	09/28/17 14:50	1
Bis(2-ethylhexyl) phthalate	<190		190	71	ug/Kg	☼	09/26/17 06:56	09/28/17 14:50	1
Butyl benzyl phthalate	<190		190	74	ug/Kg	☼	09/26/17 06:56	09/28/17 14:50	1
Carbazole	<190		190	97	ug/Kg	☼	09/26/17 06:56	09/28/17 14:50	1
Chrysene	22 J		39	11	ug/Kg	☼	09/26/17 06:56	09/28/17 14:50	1
Dibenz(a,h)anthracene	<39		39	7.5	ug/Kg	☼	09/26/17 06:56	09/28/17 14:50	1
Dibenzofuran	<190		190	45	ug/Kg	☼	09/26/17 06:56	09/28/17 14:50	1
Diethyl phthalate	<190		190	66	ug/Kg	☼	09/26/17 06:56	09/28/17 14:50	1
Dimethyl phthalate	<190		190	51	ug/Kg	☼	09/26/17 06:56	09/28/17 14:50	1
Di-n-butyl phthalate	<190		190	59	ug/Kg	☼	09/26/17 06:56	09/28/17 14:50	1
Di-n-octyl phthalate	<190		190	63	ug/Kg	☼	09/26/17 06:56	09/28/17 14:50	1
Fluoranthene	37 J		39	7.2	ug/Kg	☼	09/26/17 06:56	09/28/17 14:50	1
Fluorene	<39		39	5.4	ug/Kg	☼	09/26/17 06:56	09/28/17 14:50	1
Hexachlorobenzene	<78		78	9.0	ug/Kg	☼	09/26/17 06:56	09/28/17 14:50	1
Hexachlorobutadiene	<190		190	61	ug/Kg	☼	09/26/17 06:56	09/28/17 14:50	1
Hexachlorocyclopentadiene	<780		780	220	ug/Kg	☼	09/26/17 06:56	09/28/17 14:50	1
Hexachloroethane	<190		190	59	ug/Kg	☼	09/26/17 06:56	09/28/17 14:50	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134343-1

Client Sample ID: FH-9(5-10)-092017

Lab Sample ID: 500-134343-17

Date Collected: 09/20/17 14:44

Matrix: Solid

Date Received: 09/21/17 16:37

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	12	J	39	10	ug/Kg	☼	09/26/17 06:56	09/28/17 14:50	1
Isophorone	<190		190	44	ug/Kg	☼	09/26/17 06:56	09/28/17 14:50	1
Naphthalene	<39		39	6.0	ug/Kg	☼	09/26/17 06:56	09/28/17 14:50	1
Nitrobenzene	<39		39	9.7	ug/Kg	☼	09/26/17 06:56	09/28/17 14:50	1
N-Nitrosodi-n-propylamine	<78		78	47	ug/Kg	☼	09/26/17 06:56	09/28/17 14:50	1
N-Nitrosodiphenylamine	<190		190	46	ug/Kg	☼	09/26/17 06:56	09/28/17 14:50	1
Pentachlorophenol	<780		780	620	ug/Kg	☼	09/26/17 06:56	09/28/17 14:50	1
Phenanthrene	20	J	39	5.4	ug/Kg	☼	09/26/17 06:56	09/28/17 14:50	1
Phenol	<190		190	86	ug/Kg	☼	09/26/17 06:56	09/28/17 14:50	1
Pyrene	32	J	39	7.7	ug/Kg	☼	09/26/17 06:56	09/28/17 14:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	94		25 - 139				09/26/17 06:56	09/28/17 14:50	1
2-Fluorobiphenyl	88		44 - 121				09/26/17 06:56	09/28/17 14:50	1
2-Fluorophenol	114		46 - 133				09/26/17 06:56	09/28/17 14:50	1
Nitrobenzene-d5	88		41 - 120				09/26/17 06:56	09/28/17 14:50	1
Phenol-d5	107		46 - 125				09/26/17 06:56	09/28/17 14:50	1
Terphenyl-d14	97		35 - 160				09/26/17 06:56	09/28/17 14:50	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/26/17 15:02	09/27/17 14:17	1
Barium	0.32	J	0.50	0.050	mg/L		09/26/17 15:02	09/27/17 14:17	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/26/17 15:02	09/27/17 14:17	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/26/17 15:02	09/27/17 14:17	1
Chromium	<0.025		0.025	0.010	mg/L		09/26/17 15:02	09/27/17 14:17	1
Cobalt	<0.025		0.025	0.010	mg/L		09/26/17 15:02	09/27/17 14:17	1
Copper	0.014	J B	0.20	0.010	mg/L		09/26/17 15:02	09/27/17 14:17	1
Iron	<0.40		0.40	0.20	mg/L		09/26/17 15:02	09/27/17 14:17	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/26/17 15:02	09/27/17 14:17	1
Manganese	1.8		0.025	0.010	mg/L		09/26/17 15:02	09/27/17 14:17	1
Nickel	0.016	J	0.025	0.010	mg/L		09/26/17 15:02	09/27/17 14:17	1
Selenium	<0.050		0.050	0.020	mg/L		09/26/17 15:02	09/27/17 14:17	1
Silver	<0.025		0.025	0.010	mg/L		09/26/17 15:02	09/27/17 14:17	1
Zinc	0.020	J B	0.50	0.020	mg/L		09/26/17 15:02	09/27/17 14:17	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		09/25/17 07:11	09/25/17 22:38	1
Barium	0.11	J	0.50	0.050	mg/L		09/25/17 07:11	09/25/17 22:38	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/25/17 07:11	09/25/17 22:38	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/25/17 07:11	09/25/17 22:38	1
Chromium	0.013	J	0.025	0.010	mg/L		09/25/17 07:11	09/26/17 20:57	1
Cobalt	<0.025		0.025	0.010	mg/L		09/25/17 07:11	09/25/17 22:38	1
Copper	0.022	J	0.025	0.010	mg/L		09/25/17 07:11	09/25/17 22:38	1
Iron	7.4		0.40	0.20	mg/L		09/25/17 07:11	09/25/17 22:38	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/25/17 07:11	09/25/17 22:38	1
Manganese	0.095		0.025	0.010	mg/L		09/25/17 07:11	09/25/17 22:38	1
Nickel	<0.025		0.025	0.010	mg/L		09/25/17 07:11	09/25/17 22:38	1
Selenium	<0.050		0.050	0.020	mg/L		09/25/17 07:11	09/25/17 22:38	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134343-1

Client Sample ID: FH-9(5-10)-092017

Lab Sample ID: 500-134343-17

Date Collected: 09/20/17 14:44

Matrix: Solid

Date Received: 09/21/17 16:37

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		09/25/17 07:11	09/25/17 22:38	1
Zinc	0.066	J	0.50	0.020	mg/L		09/25/17 07:11	09/25/17 22:38	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	☼	09/22/17 17:15	09/26/17 03:20	1
Arsenic	8.1		0.57	0.20	mg/Kg	☼	09/22/17 17:15	09/26/17 03:20	1
Barium	58		0.57	0.065	mg/Kg	☼	09/22/17 17:15	09/26/17 03:20	1
Beryllium	0.76		0.23	0.054	mg/Kg	☼	09/22/17 17:15	09/26/17 03:20	1
Cadmium	0.19	B	0.11	0.021	mg/Kg	☼	09/22/17 17:15	09/26/17 03:20	1
Calcium	24000	B	11	1.9	mg/Kg	☼	09/22/17 17:15	09/26/17 03:20	1
Chromium	19		0.57	0.28	mg/Kg	☼	09/22/17 17:15	09/26/17 03:20	1
Cobalt	14		0.29	0.075	mg/Kg	☼	09/22/17 17:15	09/26/17 03:20	1
Copper	27		0.57	0.16	mg/Kg	☼	09/22/17 17:15	09/26/17 03:20	1
Iron	23000		11	6.0	mg/Kg	☼	09/22/17 17:15	09/26/17 03:20	1
Lead	17		0.29	0.13	mg/Kg	☼	09/22/17 17:15	09/26/17 03:20	1
Magnesium	15000		5.7	2.8	mg/Kg	☼	09/22/17 17:15	09/26/17 03:20	1
Manganese	440		0.57	0.083	mg/Kg	☼	09/22/17 17:15	09/26/17 03:20	1
Nickel	35		0.57	0.17	mg/Kg	☼	09/22/17 17:15	09/26/17 03:20	1
Potassium	2300		29	10	mg/Kg	☼	09/22/17 17:15	09/26/17 03:20	1
Selenium	<0.57		0.57	0.34	mg/Kg	☼	09/22/17 17:15	09/26/17 03:20	1
Silver	<0.29		0.29	0.074	mg/Kg	☼	09/22/17 17:15	09/26/17 03:20	1
Sodium	92		57	8.5	mg/Kg	☼	09/22/17 17:15	09/26/17 03:20	1
Thallium	<0.57		0.57	0.29	mg/Kg	☼	09/22/17 17:15	09/26/17 03:20	1
Vanadium	24		0.29	0.068	mg/Kg	☼	09/22/17 17:15	09/26/17 03:20	1
Zinc	65		1.1	0.50	mg/Kg	☼	09/22/17 17:15	09/26/17 03:20	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		09/26/17 14:10	09/27/17 08:01	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		09/25/17 16:40	09/26/17 11:18	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	30		17	5.8	ug/Kg	☼	09/23/17 13:20	09/25/17 14:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.0		0.20	0.20	SU			09/25/17 21:08	1

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134343-1

Client Sample ID: FH-9(5-10)-092017D

Lab Sample ID: 500-134343-18

Date Collected: 09/20/17 14:44

Matrix: Solid

Date Received: 09/21/17 16:37

Percent Solids: 82.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	35		18	7.9	ug/Kg	☼	09/21/17 17:50	09/23/17 18:40	1
Benzene	<1.8		1.8	0.46	ug/Kg	☼	09/21/17 17:50	09/23/17 18:40	1
Bromodichloromethane	<1.8		1.8	0.37	ug/Kg	☼	09/21/17 17:50	09/23/17 18:40	1
Bromoform	<1.8		1.8	0.53	ug/Kg	☼	09/21/17 17:50	09/23/17 18:40	1
Bromomethane	<4.5		4.5	1.7	ug/Kg	☼	09/21/17 17:50	09/23/17 18:40	1
Carbon disulfide	<4.5		4.5	0.94	ug/Kg	☼	09/21/17 17:50	09/23/17 18:40	1
Carbon tetrachloride	<1.8		1.8	0.53	ug/Kg	☼	09/21/17 17:50	09/23/17 18:40	1
Chlorobenzene	<1.8		1.8	0.67	ug/Kg	☼	09/21/17 17:50	09/23/17 18:40	1
Chloroethane	<4.5		4.5	1.3	ug/Kg	☼	09/21/17 17:50	09/23/17 18:40	1
Chloroform	<1.8		1.8	0.63	ug/Kg	☼	09/21/17 17:50	09/23/17 18:40	1
Chloromethane	<4.5		4.5	1.8	ug/Kg	☼	09/21/17 17:50	09/23/17 18:40	1
cis-1,2-Dichloroethene	<1.8		1.8	0.51	ug/Kg	☼	09/21/17 17:50	09/23/17 18:40	1
cis-1,3-Dichloropropene	<1.8		1.8	0.55	ug/Kg	☼	09/21/17 17:50	09/23/17 18:40	1
Dibromochloromethane	<1.8		1.8	0.59	ug/Kg	☼	09/21/17 17:50	09/23/17 18:40	1
1,1-Dichloroethane	<1.8		1.8	0.62	ug/Kg	☼	09/21/17 17:50	09/23/17 18:40	1
1,2-Dichloroethane	<4.5		4.5	1.4	ug/Kg	☼	09/21/17 17:50	09/23/17 18:40	1
1,1-Dichloroethene	<1.8		1.8	0.62	ug/Kg	☼	09/21/17 17:50	09/23/17 18:40	1
1,2-Dichloropropane	<1.8		1.8	0.47	ug/Kg	☼	09/21/17 17:50	09/23/17 18:40	1
1,3-Dichloropropene, Total	<1.8		1.8	0.64	ug/Kg	☼	09/21/17 17:50	09/23/17 18:40	1
Ethylbenzene	<1.8		1.8	0.87	ug/Kg	☼	09/21/17 17:50	09/23/17 18:40	1
2-Hexanone	<4.5		4.5	1.4	ug/Kg	☼	09/21/17 17:50	09/23/17 18:40	1
Methylene Chloride	<4.5		4.5	1.8	ug/Kg	☼	09/21/17 17:50	09/23/17 18:40	1
Methyl Ethyl Ketone	<4.5		4.5	2.0	ug/Kg	☼	09/21/17 17:50	09/23/17 18:40	1
methyl isobutyl ketone	<4.5		4.5	1.3	ug/Kg	☼	09/21/17 17:50	09/23/17 18:40	1
Methyl tert-butyl ether	<1.8		1.8	0.53	ug/Kg	☼	09/21/17 17:50	09/23/17 18:40	1
Styrene	<1.8		1.8	0.55	ug/Kg	☼	09/21/17 17:50	09/23/17 18:40	1
1,1,2,2-Tetrachloroethane	<1.8		1.8	0.58	ug/Kg	☼	09/21/17 17:50	09/23/17 18:40	1
Tetrachloroethene	<1.8		1.8	0.62	ug/Kg	☼	09/21/17 17:50	09/23/17 18:40	1
Toluene	<1.8		1.8	0.46	ug/Kg	☼	09/21/17 17:50	09/23/17 18:40	1
trans-1,2-Dichloroethene	<1.8		1.8	0.80	ug/Kg	☼	09/21/17 17:50	09/23/17 18:40	1
trans-1,3-Dichloropropene	<1.8		1.8	0.64	ug/Kg	☼	09/21/17 17:50	09/23/17 18:40	1
1,1,1-Trichloroethane	<1.8		1.8	0.61	ug/Kg	☼	09/21/17 17:50	09/23/17 18:40	1
1,1,2-Trichloroethane	<1.8		1.8	0.78	ug/Kg	☼	09/21/17 17:50	09/23/17 18:40	1
Trichloroethene	<1.8		1.8	0.61	ug/Kg	☼	09/21/17 17:50	09/23/17 18:40	1
Vinyl chloride	<1.8		1.8	0.80	ug/Kg	☼	09/21/17 17:50	09/23/17 18:40	1
Xylenes, Total	<3.6		3.6	0.58	ug/Kg	☼	09/21/17 17:50	09/23/17 18:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		75 - 131	09/21/17 17:50	09/23/17 18:40	1
Dibromofluoromethane	103		75 - 126	09/21/17 17:50	09/23/17 18:40	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	09/21/17 17:50	09/23/17 18:40	1
Toluene-d8 (Surr)	101		75 - 124	09/21/17 17:50	09/23/17 18:40	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	☼	09/26/17 06:56	09/28/17 15:14	1
1,2-Dichlorobenzene	<200		200	47	ug/Kg	☼	09/26/17 06:56	09/28/17 15:14	1
1,3-Dichlorobenzene	<200		200	45	ug/Kg	☼	09/26/17 06:56	09/28/17 15:14	1
1,4-Dichlorobenzene	<200		200	51	ug/Kg	☼	09/26/17 06:56	09/28/17 15:14	1
2,2'-oxybis[1-chloropropane]	<200		200	46	ug/Kg	☼	09/26/17 06:56	09/28/17 15:14	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134343-1

Client Sample ID: FH-9(5-10)-092017D

Lab Sample ID: 500-134343-18

Date Collected: 09/20/17 14:44

Matrix: Solid

Date Received: 09/21/17 16:37

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	<390		390	90	ug/Kg	☼	09/26/17 06:56	09/28/17 15:14	1
2,4,6-Trichlorophenol	<390		390	140	ug/Kg	☼	09/26/17 06:56	09/28/17 15:14	1
2,4-Dichlorophenol	<390		390	94	ug/Kg	☼	09/26/17 06:56	09/28/17 15:14	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	09/26/17 06:56	09/28/17 15:14	1
2,4-Dinitrophenol	<800		800	700	ug/Kg	☼	09/26/17 06:56	09/28/17 15:14	1
2,4-Dinitrotoluene	<200		200	63	ug/Kg	☼	09/26/17 06:56	09/28/17 15:14	1
2,6-Dinitrotoluene	<200		200	78	ug/Kg	☼	09/26/17 06:56	09/28/17 15:14	1
2-Chloronaphthalene	<200		200	44	ug/Kg	☼	09/26/17 06:56	09/28/17 15:14	1
2-Chlorophenol	<200		200	68	ug/Kg	☼	09/26/17 06:56	09/28/17 15:14	1
2-Methylnaphthalene	<80		80	7.3	ug/Kg	☼	09/26/17 06:56	09/28/17 15:14	1
2-Methylphenol	<200		200	64	ug/Kg	☼	09/26/17 06:56	09/28/17 15:14	1
2-Nitroaniline	<200		200	53	ug/Kg	☼	09/26/17 06:56	09/28/17 15:14	1
2-Nitrophenol	<390		390	94	ug/Kg	☼	09/26/17 06:56	09/28/17 15:14	1
3 & 4 Methylphenol	<200		200	66	ug/Kg	☼	09/26/17 06:56	09/28/17 15:14	1
3,3'-Dichlorobenzidine	<200		200	55	ug/Kg	☼	09/26/17 06:56	09/28/17 15:14	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	09/26/17 06:56	09/28/17 15:14	1
4,6-Dinitro-2-methylphenol	<800		800	320	ug/Kg	☼	09/26/17 06:56	09/28/17 15:14	1
4-Bromophenyl phenyl ether	<200		200	52	ug/Kg	☼	09/26/17 06:56	09/28/17 15:14	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	09/26/17 06:56	09/28/17 15:14	1
4-Chloroaniline	<800		800	190	ug/Kg	☼	09/26/17 06:56	09/28/17 15:14	1
4-Chlorophenyl phenyl ether	<200		200	46	ug/Kg	☼	09/26/17 06:56	09/28/17 15:14	1
4-Nitroaniline	<390		390	170	ug/Kg	☼	09/26/17 06:56	09/28/17 15:14	1
4-Nitrophenol	<800		800	380	ug/Kg	☼	09/26/17 06:56	09/28/17 15:14	1
Acenaphthene	<39		39	7.1	ug/Kg	☼	09/26/17 06:56	09/28/17 15:14	1
Acenaphthylene	<39		39	5.2	ug/Kg	☼	09/26/17 06:56	09/28/17 15:14	1
Anthracene	<39		39	6.6	ug/Kg	☼	09/26/17 06:56	09/28/17 15:14	1
Benzo[a]anthracene	24 J		39	5.3	ug/Kg	☼	09/26/17 06:56	09/28/17 15:14	1
Benzo[a]pyrene	28 J		39	7.7	ug/Kg	☼	09/26/17 06:56	09/28/17 15:14	1
Benzo[b]fluoranthene	41		39	8.5	ug/Kg	☼	09/26/17 06:56	09/28/17 15:14	1
Benzo[g,h,i]perylene	15 J		39	13	ug/Kg	☼	09/26/17 06:56	09/28/17 15:14	1
Benzo[k]fluoranthene	21 J		39	12	ug/Kg	☼	09/26/17 06:56	09/28/17 15:14	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	☼	09/26/17 06:56	09/28/17 15:14	1
Bis(2-chloroethyl)ether	<200		200	59	ug/Kg	☼	09/26/17 06:56	09/28/17 15:14	1
Bis(2-ethylhexyl) phthalate	<200		200	72	ug/Kg	☼	09/26/17 06:56	09/28/17 15:14	1
Butyl benzyl phthalate	<200		200	75	ug/Kg	☼	09/26/17 06:56	09/28/17 15:14	1
Carbazole	<200		200	99	ug/Kg	☼	09/26/17 06:56	09/28/17 15:14	1
Chrysene	31 J		39	11	ug/Kg	☼	09/26/17 06:56	09/28/17 15:14	1
Dibenz(a,h)anthracene	8.7 J		39	7.7	ug/Kg	☼	09/26/17 06:56	09/28/17 15:14	1
Dibenzofuran	<200		200	46	ug/Kg	☼	09/26/17 06:56	09/28/17 15:14	1
Diethyl phthalate	<200		200	67	ug/Kg	☼	09/26/17 06:56	09/28/17 15:14	1
Dimethyl phthalate	<200		200	52	ug/Kg	☼	09/26/17 06:56	09/28/17 15:14	1
Di-n-butyl phthalate	<200		200	60	ug/Kg	☼	09/26/17 06:56	09/28/17 15:14	1
Di-n-octyl phthalate	<200		200	65	ug/Kg	☼	09/26/17 06:56	09/28/17 15:14	1
Fluoranthene	59		39	7.3	ug/Kg	☼	09/26/17 06:56	09/28/17 15:14	1
Fluorene	<39		39	5.6	ug/Kg	☼	09/26/17 06:56	09/28/17 15:14	1
Hexachlorobenzene	<80		80	9.2	ug/Kg	☼	09/26/17 06:56	09/28/17 15:14	1
Hexachlorobutadiene	<200		200	62	ug/Kg	☼	09/26/17 06:56	09/28/17 15:14	1
Hexachlorocyclopentadiene	<800		800	230	ug/Kg	☼	09/26/17 06:56	09/28/17 15:14	1
Hexachloroethane	<200		200	60	ug/Kg	☼	09/26/17 06:56	09/28/17 15:14	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134343-1

Client Sample ID: FH-9(5-10)-092017D

Lab Sample ID: 500-134343-18

Date Collected: 09/20/17 14:44

Matrix: Solid

Date Received: 09/21/17 16:37

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	16	J	39	10	ug/Kg	☼	09/26/17 06:56	09/28/17 15:14	1
Isophorone	<200		200	44	ug/Kg	☼	09/26/17 06:56	09/28/17 15:14	1
Naphthalene	<39		39	6.1	ug/Kg	☼	09/26/17 06:56	09/28/17 15:14	1
Nitrobenzene	<39		39	9.9	ug/Kg	☼	09/26/17 06:56	09/28/17 15:14	1
N-Nitrosodi-n-propylamine	<80		80	48	ug/Kg	☼	09/26/17 06:56	09/28/17 15:14	1
N-Nitrosodiphenylamine	<200		200	47	ug/Kg	☼	09/26/17 06:56	09/28/17 15:14	1
Pentachlorophenol	<800		800	640	ug/Kg	☼	09/26/17 06:56	09/28/17 15:14	1
Phenanthrene	30	J	39	5.5	ug/Kg	☼	09/26/17 06:56	09/28/17 15:14	1
Phenol	<200		200	88	ug/Kg	☼	09/26/17 06:56	09/28/17 15:14	1
Pyrene	51		39	7.9	ug/Kg	☼	09/26/17 06:56	09/28/17 15:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	97		25 - 139				09/26/17 06:56	09/28/17 15:14	1
2-Fluorobiphenyl	82		44 - 121				09/26/17 06:56	09/28/17 15:14	1
2-Fluorophenol	102		46 - 133				09/26/17 06:56	09/28/17 15:14	1
Nitrobenzene-d5	78		41 - 120				09/26/17 06:56	09/28/17 15:14	1
Phenol-d5	96		46 - 125				09/26/17 06:56	09/28/17 15:14	1
Terphenyl-d14	90		35 - 160				09/26/17 06:56	09/28/17 15:14	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		09/26/17 15:02	09/27/17 14:21	1
Barium	0.33	J	0.50	0.050	mg/L		09/26/17 15:02	09/27/17 14:21	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/26/17 15:02	09/27/17 14:21	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/26/17 15:02	09/27/17 14:21	1
Chromium	<0.025		0.025	0.010	mg/L		09/26/17 15:02	09/27/17 14:21	1
Cobalt	<0.025		0.025	0.010	mg/L		09/26/17 15:02	09/27/17 14:21	1
Copper	<0.20		0.20	0.010	mg/L		09/26/17 15:02	09/27/17 14:21	1
Iron	<0.40		0.40	0.20	mg/L		09/26/17 15:02	09/27/17 14:21	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/26/17 15:02	09/27/17 14:21	1
Manganese	2.3		0.025	0.010	mg/L		09/26/17 15:02	09/27/17 14:21	1
Nickel	0.018	J	0.025	0.010	mg/L		09/26/17 15:02	09/27/17 14:21	1
Selenium	<0.050		0.050	0.020	mg/L		09/26/17 15:02	09/27/17 14:21	1
Silver	<0.025		0.025	0.010	mg/L		09/26/17 15:02	09/27/17 14:21	1
Zinc	<0.50		0.50	0.020	mg/L		09/26/17 15:02	09/27/17 14:21	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		09/25/17 07:11	09/25/17 22:42	1
Barium	0.11	J	0.50	0.050	mg/L		09/25/17 07:11	09/25/17 22:42	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/25/17 07:11	09/25/17 22:42	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/25/17 07:11	09/25/17 22:42	1
Chromium	<0.025		0.025	0.010	mg/L		09/25/17 07:11	09/26/17 21:01	1
Cobalt	<0.025		0.025	0.010	mg/L		09/25/17 07:11	09/25/17 22:42	1
Copper	0.055		0.025	0.010	mg/L		09/25/17 07:11	09/25/17 22:42	1
Iron	4.3		0.40	0.20	mg/L		09/25/17 07:11	09/25/17 22:42	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/25/17 07:11	09/25/17 22:42	1
Manganese	0.075		0.025	0.010	mg/L		09/25/17 07:11	09/25/17 22:42	1
Nickel	<0.025		0.025	0.010	mg/L		09/25/17 07:11	09/25/17 22:42	1
Selenium	<0.050		0.050	0.020	mg/L		09/25/17 07:11	09/25/17 22:42	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134343-1

Client Sample ID: FH-9(5-10)-092017D

Lab Sample ID: 500-134343-18

Date Collected: 09/20/17 14:44

Matrix: Solid

Date Received: 09/21/17 16:37

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		09/25/17 07:11	09/25/17 22:42	1
Zinc	0.078	J	0.50	0.020	mg/L		09/25/17 07:11	09/25/17 22:42	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.23	mg/Kg	☼	09/22/17 17:15	09/26/17 03:24	1
Arsenic	7.2		0.60	0.20	mg/Kg	☼	09/22/17 17:15	09/26/17 03:24	1
Barium	53		0.60	0.068	mg/Kg	☼	09/22/17 17:15	09/26/17 03:24	1
Beryllium	0.78		0.24	0.056	mg/Kg	☼	09/22/17 17:15	09/26/17 03:24	1
Cadmium	0.18	B	0.12	0.022	mg/Kg	☼	09/22/17 17:15	09/26/17 03:24	1
Calcium	28000	B	12	2.0	mg/Kg	☼	09/22/17 17:15	09/26/17 03:24	1
Chromium	19		0.60	0.30	mg/Kg	☼	09/22/17 17:15	09/26/17 03:24	1
Cobalt	13		0.30	0.078	mg/Kg	☼	09/22/17 17:15	09/26/17 03:24	1
Copper	27		0.60	0.17	mg/Kg	☼	09/22/17 17:15	09/26/17 03:24	1
Iron	22000		12	6.2	mg/Kg	☼	09/22/17 17:15	09/26/17 03:24	1
Lead	17		0.30	0.14	mg/Kg	☼	09/22/17 17:15	09/26/17 03:24	1
Magnesium	16000		6.0	3.0	mg/Kg	☼	09/22/17 17:15	09/26/17 03:24	1
Manganese	370		0.60	0.087	mg/Kg	☼	09/22/17 17:15	09/26/17 03:24	1
Nickel	34		0.60	0.17	mg/Kg	☼	09/22/17 17:15	09/26/17 03:24	1
Potassium	2600		30	11	mg/Kg	☼	09/22/17 17:15	09/26/17 03:24	1
Selenium	<0.60		0.60	0.35	mg/Kg	☼	09/22/17 17:15	09/26/17 03:24	1
Silver	<0.30		0.30	0.077	mg/Kg	☼	09/22/17 17:15	09/26/17 03:24	1
Sodium	100		60	8.8	mg/Kg	☼	09/22/17 17:15	09/26/17 03:24	1
Thallium	<0.60		0.60	0.30	mg/Kg	☼	09/22/17 17:15	09/26/17 03:24	1
Vanadium	24		0.30	0.071	mg/Kg	☼	09/22/17 17:15	09/26/17 03:24	1
Zinc	61		1.2	0.52	mg/Kg	☼	09/22/17 17:15	09/26/17 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		09/26/17 14:10	09/27/17 08:03	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		09/25/17 16:40	09/26/17 11:20	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	36		19	6.3	ug/Kg	☼	09/23/17 13:20	09/25/17 14:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.1		0.20	0.20	SU			09/25/17 21:24	1

Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134343-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
*	ISTD response or retention time outside acceptable limits

GC/MS Semi VOA

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

GC Semi VOA

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

Metals

Qualifier	Qualifier Description
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.
B	Compound was found in the blank and sample.
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

General Chemistry

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)

TestAmerica Chicago

Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134343-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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)

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Accreditation/Certification Summary

Client: Weston Solutions, Inc.

TestAmerica Job ID: 500-134343-1

Project/Site: IDOT - Eisenhower Expressway - WO 062

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Illinois	NELAP	5	100201	04-30-19

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

Analysis Method	Prep Method	Matrix	Analyte
8260B	5035	Solid	1,3-Dichloropropene, Total
9045D		Solid	pH
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

TestAmerica

THE LEADER IN ENVIRONMENTAL

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500-134343 COC

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E-Mail:

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

Chain of Custody Record

Lab Job #: 500-134343

Chain of Custody Number: _____

Page 1 of 5

Temperature °C of Cooler: 20.33, 34.46, 21.2

Client		Client Project #		Preservative		Parameter												Preservative Key
Project Name		Lab Project #		Parameter														
Project Location/State		Lab PM		Matrix														Comments
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOC	SIOC	Total Metals	TEMP/SELP Metals	pH	PCBS	Cyanide	Phosphorus	Chloride			
1		PS-1(0-6)-092017	9/20/17	0805	6	S	X	X	X	X	X							
2		PS-1(6-13)-092017		0810	6	S	X	X	X	X	X							
3		PS-2(0-6)-092017		0822	6	S	X	X	X	X	X							
4		PS-2(6-13)-092017		0832	6	S	X	X	X	X	X							
5		PS-3(0-6)-092017		0847	6	S	X	X	X	X	X							
6		PS-3(6-13)-092017		0855	6	S	X	X	X	X	X							
7		PS-3(6-13)-092017D		0855	6	S	X	X	X	X	X							
8		DP-1(0-1)-092017		1222	6	SE	X	X	X	X	X	X	X	X	X	X		
9		FH-8(0-5)-092017		1303	6	S	X	X	X	X	X							
10		FH-8(5-10)-092017		1310	6	S	X	X	X	X	X							

- Preservative Key
- HCL, Cool to 4°
 - H2SO4, Cool to 4°
 - HNO3, Cool to 4°
 - NaOH, Cool to 4°
 - NaOH/Zn, Cool to 4°
 - NaHSO4
 - Cool to 4°
 - None
 - Other

Turnaround Time Required (Business Days): 1 Day 2 Days 5 Days 7 Days X 10 Days 15 Days Other

Requested Due Date: _____

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

Relinquished By: <u>Kathy Weston</u> Company: <u>Weston</u> Date: <u>9/20/17</u> Time: <u>1529</u>	Received By: <u>P. Neal</u> Company: <u>TA</u> Date: <u>9/20/17</u> Time: <u>1527</u>	Lab Courier: <u>TA</u>
Relinquished By: <u>P. Neal</u> Company: <u>TA</u> Date: <u>9/20/17</u> Time: <u>1637</u>	Received By: <u>Shawn Scott</u> Company: <u>TA-CST</u> Date: <u>9/21/17</u> Time: <u>0730</u>	Shipped: _____
Relinquished By: _____ Company: _____ Date: _____ Time: _____	Received By: _____ Company: _____ Date: _____ Time: _____	Hand Delivered: _____

Matrix Key

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

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: Babu
Company: Weston Solutions
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: _____

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

Chain of Custody Record

Lab Job #: 500-134343

Chain of Custody Number: _____

Page 2 of 5

Temperature °C of Cooler: 2.0, 3.3, 3.4, 4.6, 2.2

Client		Client Project #		Preservative		Parameter										Preservative Key		
<u>Weston Solutions</u>																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		
Project Name		Lab Project #		Sampling		# of Containers		Matrix								Comments		
<u>IDOT 062- Eisenhower Expressway</u>				Date Time														
Project Location/State		Lab PM																
<u>Forest Park, IL</u>		<u>R. Wright</u>																
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix												
			Date	Time														
<u>11</u>		<u>FH-8(10-15)-092017</u>	<u>9/20/17</u>	<u>1315</u>	<u>6</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>							
<u>12</u>		<u>FH-8(15-20)-092017</u>		<u>1332</u>	<u>6</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>							
<u>13</u>		<u>FH-8(20-25)-092017</u>		<u>1346</u>	<u>6</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>							
<u>14</u>		<u>FH-8(25-30)-092017</u>		<u>1358</u>	<u>6</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>							
<u>15</u>		<u>FH-8(30-35)-092017</u>		<u>1415</u>	<u>6</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>							
<u>16</u>		<u>FH-9(0-5)-092017</u>		<u>1432</u>	<u>6</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>							
<u>17</u>		<u>FH-9(5-10)-092017</u>		<u>1444</u>	<u>4</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>							
<u>18</u>		<u>FH-9(5-10)-092017</u>		<u>1444</u>	<u>6</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>							
<u>19</u>		<u>FH-13(46-54)-092017</u>		<u>1435</u>	<u>6</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>							

Turnaround Time Required (Business Days) _____
 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: <u>[Signature]</u> Company: <u>Weston</u> Date: <u>9/20/17</u> Time: <u>1527</u>	Received By: <u>P. Neal</u> Company: <u>TA</u> Date: <u>9/20/17</u> Time: <u>1527</u>	Lab Courier: <u>TA</u>
Relinquished By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>9/20/17</u> Time: <u>1637</u>	Received By: <u>[Signature]</u> Company: <u>TA-CHE</u> Date: <u>9/21/17</u> Time: <u>0730</u>	Shipped: _____
Relinquished By: _____ Company: _____ Date: _____ Time: _____	Received By: _____ Company: _____ Date: _____ Time: _____	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

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-134344-1

Client Project/Site: IDOT - Eisenhower Expressway - WO 062

For:

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

Attn: Mr. S. Babusukumar



Authorized for release by:
9/29/2017 10:03:17 AM

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

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134344-1

Client Sample ID: FH-13(0-5)-092017

Lab Sample ID: 500-134344-1

Date Collected: 09/20/17 12:35

Matrix: Solid

Date Received: 09/20/17 16:37

Percent Solids: 87.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<17		17	7.6	ug/Kg	☼	09/21/17 17:50	09/23/17 19:30	1
Benzene	<1.7		1.7	0.44	ug/Kg	☼	09/21/17 17:50	09/23/17 19:30	1
Bromodichloromethane	<1.7		1.7	0.35	ug/Kg	☼	09/21/17 17:50	09/23/17 19:30	1
Bromoform	<1.7		1.7	0.51	ug/Kg	☼	09/21/17 17:50	09/23/17 19:30	1
Bromomethane	<4.3		4.3	1.6	ug/Kg	☼	09/21/17 17:50	09/23/17 19:30	1
Carbon disulfide	<4.3		4.3	0.90	ug/Kg	☼	09/21/17 17:50	09/23/17 19:30	1
Carbon tetrachloride	<1.7		1.7	0.50	ug/Kg	☼	09/21/17 17:50	09/23/17 19:30	1
Chlorobenzene	<1.7		1.7	0.64	ug/Kg	☼	09/21/17 17:50	09/23/17 19:30	1
Chloroethane	<4.3		4.3	1.3	ug/Kg	☼	09/21/17 17:50	09/23/17 19:30	1
Chloroform	<1.7		1.7	0.60	ug/Kg	☼	09/21/17 17:50	09/23/17 19:30	1
Chloromethane	<4.3		4.3	1.7	ug/Kg	☼	09/21/17 17:50	09/23/17 19:30	1
cis-1,2-Dichloroethene	<1.7		1.7	0.49	ug/Kg	☼	09/21/17 17:50	09/23/17 19:30	1
cis-1,3-Dichloropropene	<1.7		1.7	0.52	ug/Kg	☼	09/21/17 17:50	09/23/17 19:30	1
Dibromochloromethane	<1.7		1.7	0.57	ug/Kg	☼	09/21/17 17:50	09/23/17 19:30	1
1,1-Dichloroethane	<1.7		1.7	0.59	ug/Kg	☼	09/21/17 17:50	09/23/17 19:30	1
1,2-Dichloroethane	<4.3		4.3	1.4	ug/Kg	☼	09/21/17 17:50	09/23/17 19:30	1
1,1-Dichloroethene	<1.7		1.7	0.60	ug/Kg	☼	09/21/17 17:50	09/23/17 19:30	1
1,2-Dichloropropane	<1.7		1.7	0.45	ug/Kg	☼	09/21/17 17:50	09/23/17 19:30	1
1,3-Dichloropropene, Total	<1.7		1.7	0.61	ug/Kg	☼	09/21/17 17:50	09/23/17 19:30	1
Ethylbenzene	<1.7		1.7	0.83	ug/Kg	☼	09/21/17 17:50	09/23/17 19:30	1
2-Hexanone	<4.3		4.3	1.4	ug/Kg	☼	09/21/17 17:50	09/23/17 19:30	1
Methylene Chloride	<4.3		4.3	1.7	ug/Kg	☼	09/21/17 17:50	09/23/17 19:30	1
Methyl Ethyl Ketone	<4.3		4.3	1.9	ug/Kg	☼	09/21/17 17:50	09/23/17 19:30	1
methyl isobutyl ketone	<4.3		4.3	1.3	ug/Kg	☼	09/21/17 17:50	09/23/17 19:30	1
Methyl tert-butyl ether	<1.7		1.7	0.51	ug/Kg	☼	09/21/17 17:50	09/23/17 19:30	1
Styrene	<1.7		1.7	0.52	ug/Kg	☼	09/21/17 17:50	09/23/17 19:30	1
1,1,2,2-Tetrachloroethane	<1.7		1.7	0.55	ug/Kg	☼	09/21/17 17:50	09/23/17 19:30	1
Tetrachloroethene	<1.7		1.7	0.59	ug/Kg	☼	09/21/17 17:50	09/23/17 19:30	1
Toluene	<1.7		1.7	0.44	ug/Kg	☼	09/21/17 17:50	09/23/17 19:30	1
trans-1,2-Dichloroethene	<1.7		1.7	0.77	ug/Kg	☼	09/21/17 17:50	09/23/17 19:30	1
trans-1,3-Dichloropropene	<1.7		1.7	0.61	ug/Kg	☼	09/21/17 17:50	09/23/17 19:30	1
1,1,1-Trichloroethane	<1.7		1.7	0.58	ug/Kg	☼	09/21/17 17:50	09/23/17 19:30	1
1,1,2-Trichloroethane	<1.7		1.7	0.74	ug/Kg	☼	09/21/17 17:50	09/23/17 19:30	1
Trichloroethene	<1.7		1.7	0.59	ug/Kg	☼	09/21/17 17:50	09/23/17 19:30	1
Vinyl chloride	<1.7		1.7	0.77	ug/Kg	☼	09/21/17 17:50	09/23/17 19:30	1
Xylenes, Total	<3.5		3.5	0.56	ug/Kg	☼	09/21/17 17:50	09/23/17 19:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		75 - 131	09/21/17 17:50	09/23/17 19:30	1
Dibromofluoromethane	105		75 - 126	09/21/17 17:50	09/23/17 19:30	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 134	09/21/17 17:50	09/23/17 19:30	1
Toluene-d8 (Surr)	93		75 - 124	09/21/17 17:50	09/23/17 19:30	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	☼	09/26/17 07:23	09/27/17 12:38	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	09/26/17 07:23	09/27/17 12:38	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	09/26/17 07:23	09/27/17 12:38	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	09/26/17 07:23	09/27/17 12:38	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	09/26/17 07:23	09/27/17 12:38	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134344-1

Client Sample ID: FH-13(0-5)-092017

Lab Sample ID: 500-134344-1

Date Collected: 09/20/17 12:35

Matrix: Solid

Date Received: 09/20/17 16:37

Percent Solids: 87.0

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	86	ug/Kg	☼	09/26/17 07:23	09/27/17 12:38	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	09/26/17 07:23	09/27/17 12:38	1
2,4-Dichlorophenol	<380		380	90	ug/Kg	☼	09/26/17 07:23	09/27/17 12:38	1
2,4-Dimethylphenol	<380		380	140	ug/Kg	☼	09/26/17 07:23	09/27/17 12:38	1
2,4-Dinitrophenol	<760	F1 *	760	670	ug/Kg	☼	09/26/17 07:23	09/27/17 12:38	1
2,4-Dinitrotoluene	<190	F1	190	60	ug/Kg	☼	09/26/17 07:23	09/27/17 12:38	1
2,6-Dinitrotoluene	<190	F1	190	74	ug/Kg	☼	09/26/17 07:23	09/27/17 12:38	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	09/26/17 07:23	09/27/17 12:38	1
2-Chlorophenol	<190		190	65	ug/Kg	☼	09/26/17 07:23	09/27/17 12:38	1
2-Methylnaphthalene	<76		76	7.0	ug/Kg	☼	09/26/17 07:23	09/27/17 12:38	1
2-Methylphenol	<190		190	61	ug/Kg	☼	09/26/17 07:23	09/27/17 12:38	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	09/26/17 07:23	09/27/17 12:38	1
2-Nitrophenol	<380		380	89	ug/Kg	☼	09/26/17 07:23	09/27/17 12:38	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	09/26/17 07:23	09/27/17 12:38	1
3,3'-Dichlorobenzidine	<190	F1 F2	190	53	ug/Kg	☼	09/26/17 07:23	09/27/17 12:38	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	09/26/17 07:23	09/27/17 12:38	1
4,6-Dinitro-2-methylphenol	<760	F1	760	300	ug/Kg	☼	09/26/17 07:23	09/27/17 12:38	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	09/26/17 07:23	09/27/17 12:38	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	09/26/17 07:23	09/27/17 12:38	1
4-Chloroaniline	<760	F2	760	180	ug/Kg	☼	09/26/17 07:23	09/27/17 12:38	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	09/26/17 07:23	09/27/17 12:38	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	09/26/17 07:23	09/27/17 12:38	1
4-Nitrophenol	<760		760	360	ug/Kg	☼	09/26/17 07:23	09/27/17 12:38	1
Acenaphthene	11	J	38	6.8	ug/Kg	☼	09/26/17 07:23	09/27/17 12:38	1
Acenaphthylene	5.1	J	38	5.0	ug/Kg	☼	09/26/17 07:23	09/27/17 12:38	1
Anthracene	38		38	6.3	ug/Kg	☼	09/26/17 07:23	09/27/17 12:38	1
Benzo[a]anthracene	140		38	5.1	ug/Kg	☼	09/26/17 07:23	09/27/17 12:38	1
Benzo[a]pyrene	130		38	7.3	ug/Kg	☼	09/26/17 07:23	09/27/17 12:38	1
Benzo[b]fluoranthene	180		38	8.2	ug/Kg	☼	09/26/17 07:23	09/27/17 12:38	1
Benzo[g,h,i]perylene	72	F1	38	12	ug/Kg	☼	09/26/17 07:23	09/27/17 12:38	1
Benzo[k]fluoranthene	71		38	11	ug/Kg	☼	09/26/17 07:23	09/27/17 12:38	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	09/26/17 07:23	09/27/17 12:38	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	09/26/17 07:23	09/27/17 12:38	1
Bis(2-ethylhexyl) phthalate	<190		190	69	ug/Kg	☼	09/26/17 07:23	09/27/17 12:38	1
Butyl benzyl phthalate	<190		190	72	ug/Kg	☼	09/26/17 07:23	09/27/17 12:38	1
Carbazole	<190		190	95	ug/Kg	☼	09/26/17 07:23	09/27/17 12:38	1
Chrysene	150		38	10	ug/Kg	☼	09/26/17 07:23	09/27/17 12:38	1
Dibenz(a,h)anthracene	20	J F1	38	7.3	ug/Kg	☼	09/26/17 07:23	09/27/17 12:38	1
Dibenzofuran	<190		190	44	ug/Kg	☼	09/26/17 07:23	09/27/17 12:38	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	09/26/17 07:23	09/27/17 12:38	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	09/26/17 07:23	09/27/17 12:38	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	09/26/17 07:23	09/27/17 12:38	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	09/26/17 07:23	09/27/17 12:38	1
Fluoranthene	350		38	7.0	ug/Kg	☼	09/26/17 07:23	09/27/17 12:38	1
Fluorene	21	J	38	5.3	ug/Kg	☼	09/26/17 07:23	09/27/17 12:38	1
Hexachlorobenzene	<76		76	8.8	ug/Kg	☼	09/26/17 07:23	09/27/17 12:38	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	09/26/17 07:23	09/27/17 12:38	1
Hexachlorocyclopentadiene	<760	F1	760	220	ug/Kg	☼	09/26/17 07:23	09/27/17 12:38	1
Hexachloroethane	<190	F1	190	58	ug/Kg	☼	09/26/17 07:23	09/27/17 12:38	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134344-1

Client Sample ID: FH-13(0-5)-092017

Lab Sample ID: 500-134344-1

Date Collected: 09/20/17 12:35

Matrix: Solid

Date Received: 09/20/17 16:37

Percent Solids: 87.0

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	69	F1	38	9.8	ug/Kg	☼	09/26/17 07:23	09/27/17 12:38	1
Isophorone	<190		190	42	ug/Kg	☼	09/26/17 07:23	09/27/17 12:38	1
Naphthalene	8.4	J	38	5.8	ug/Kg	☼	09/26/17 07:23	09/27/17 12:38	1
Nitrobenzene	<38		38	9.4	ug/Kg	☼	09/26/17 07:23	09/27/17 12:38	1
N-Nitrosodi-n-propylamine	<76		76	46	ug/Kg	☼	09/26/17 07:23	09/27/17 12:38	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	09/26/17 07:23	09/27/17 12:38	1
Pentachlorophenol	<760	F1	760	610	ug/Kg	☼	09/26/17 07:23	09/27/17 12:38	1
Phenanthrene	230		38	5.3	ug/Kg	☼	09/26/17 07:23	09/27/17 12:38	1
Phenol	<190		190	84	ug/Kg	☼	09/26/17 07:23	09/27/17 12:38	1
Pyrene	270		38	7.5	ug/Kg	☼	09/26/17 07:23	09/27/17 12:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	75		25 - 139				09/26/17 07:23	09/27/17 12:38	1
2-Fluorobiphenyl	84		44 - 121				09/26/17 07:23	09/27/17 12:38	1
2-Fluorophenol	113		46 - 133				09/26/17 07:23	09/27/17 12:38	1
Nitrobenzene-d5	85		41 - 120				09/26/17 07:23	09/27/17 12:38	1
Phenol-d5	97		46 - 125				09/26/17 07:23	09/27/17 12:38	1
Terphenyl-d14	88		35 - 160				09/26/17 07:23	09/27/17 12:38	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		09/26/17 15:08	09/27/17 12:45	1
Barium	0.31	J	0.50	0.050	mg/L		09/26/17 15:08	09/27/17 12:45	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/26/17 15:08	09/27/17 12:45	1
Cadmium	0.0025	J	0.0050	0.0020	mg/L		09/26/17 15:08	09/27/17 12:45	1
Chromium	<0.025		0.025	0.010	mg/L		09/26/17 15:08	09/27/17 12:45	1
Cobalt	<0.025		0.025	0.010	mg/L		09/26/17 15:08	09/27/17 12:45	1
Copper	<0.20		0.20	0.010	mg/L		09/26/17 15:08	09/27/17 12:45	1
Iron	<0.40		0.40	0.20	mg/L		09/26/17 15:08	09/27/17 12:45	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/26/17 15:08	09/27/17 12:45	1
Manganese	0.73		0.025	0.010	mg/L		09/26/17 15:08	09/27/17 12:45	1
Nickel	<0.025		0.025	0.010	mg/L		09/26/17 15:08	09/27/17 12:45	1
Selenium	<0.050		0.050	0.020	mg/L		09/26/17 15:08	09/27/17 12:45	1
Silver	<0.025		0.025	0.010	mg/L		09/26/17 15:08	09/27/17 12:45	1
Zinc	<0.50	^	0.50	0.020	mg/L		09/26/17 15:08	09/27/17 12:45	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		09/25/17 07:12	09/26/17 03:50	1
Barium	0.097	J	0.50	0.050	mg/L		09/25/17 07:12	09/26/17 03:50	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/25/17 07:12	09/26/17 03:50	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/25/17 07:12	09/26/17 03:50	1
Chromium	<0.025		0.025	0.010	mg/L		09/25/17 07:12	09/26/17 03:50	1
Cobalt	<0.025		0.025	0.010	mg/L		09/25/17 07:12	09/26/17 03:50	1
Copper	0.038		0.025	0.010	mg/L		09/25/17 07:12	09/26/17 03:50	1
Iron	5.9		0.40	0.20	mg/L		09/25/17 07:12	09/26/17 03:50	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/25/17 07:12	09/26/17 03:50	1
Manganese	0.047		0.025	0.010	mg/L		09/25/17 07:12	09/26/17 03:50	1
Nickel	<0.025		0.025	0.010	mg/L		09/25/17 07:12	09/26/17 03:50	1
Selenium	<0.050		0.050	0.020	mg/L		09/25/17 07:12	09/26/17 03:50	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134344-1

Client Sample ID: FH-13(0-5)-092017

Lab Sample ID: 500-134344-1

Date Collected: 09/20/17 12:35

Matrix: Solid

Date Received: 09/20/17 16:37

Percent Solids: 87.0

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		09/25/17 07:12	09/26/17 03:50	1
Zinc	0.079	J	0.50	0.020	mg/L		09/25/17 07:12	09/26/17 03:50	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.38	J	1.1	0.22	mg/Kg	☼	09/22/17 17:18	09/25/17 18:22	1
Arsenic	8.9		0.56	0.19	mg/Kg	☼	09/22/17 17:18	09/25/17 18:22	1
Barium	46		0.56	0.064	mg/Kg	☼	09/22/17 17:18	09/25/17 18:22	1
Beryllium	0.65		0.23	0.053	mg/Kg	☼	09/22/17 17:18	09/25/17 18:22	1
Cadmium	0.20	B	0.11	0.020	mg/Kg	☼	09/22/17 17:18	09/25/17 18:22	1
Calcium	15000	B	11	1.9	mg/Kg	☼	09/22/17 17:18	09/25/17 18:22	1
Chromium	14		0.56	0.28	mg/Kg	☼	09/22/17 17:18	09/25/17 18:22	1
Cobalt	14		0.28	0.074	mg/Kg	☼	09/22/17 17:18	09/25/17 18:22	1
Copper	26		0.56	0.16	mg/Kg	☼	09/22/17 17:18	09/25/17 18:22	1
Iron	19000	B	11	5.9	mg/Kg	☼	09/22/17 17:18	09/25/17 18:22	1
Lead	22		0.28	0.13	mg/Kg	☼	09/22/17 17:18	09/25/17 18:22	1
Magnesium	11000		5.6	2.8	mg/Kg	☼	09/22/17 17:18	09/25/17 18:22	1
Manganese	390		0.56	0.082	mg/Kg	☼	09/22/17 17:18	09/25/17 18:22	1
Nickel	31		0.56	0.16	mg/Kg	☼	09/22/17 17:18	09/25/17 18:22	1
Potassium	1700		28	10	mg/Kg	☼	09/22/17 17:18	09/25/17 18:22	1
Selenium	<0.56		0.56	0.33	mg/Kg	☼	09/22/17 17:18	09/25/17 18:22	1
Silver	<0.28		0.28	0.073	mg/Kg	☼	09/22/17 17:18	09/25/17 18:22	1
Sodium	76		56	8.3	mg/Kg	☼	09/22/17 17:18	09/25/17 18:22	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	09/22/17 17:18	09/25/17 18:22	1
Vanadium	20		0.28	0.066	mg/Kg	☼	09/22/17 17:18	09/25/17 18:22	1
Zinc	65		1.1	0.49	mg/Kg	☼	09/22/17 17:18	09/25/17 18:22	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		09/26/17 14:10	09/27/17 08:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		09/25/17 16:40	09/26/17 11:30	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	45		18	6.0	ug/Kg	☼	09/26/17 12:40	09/27/17 08:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.0		0.20	0.20	SU			09/25/17 21:55	1

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134344-1

Client Sample ID: FH-13(5-10)-092017

Lab Sample ID: 500-134344-2

Date Collected: 09/20/17 12:45

Matrix: Solid

Date Received: 09/20/17 16:37

Percent Solids: 80.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	24		18	7.9	ug/Kg	☼	09/21/17 17:50	09/23/17 19:55	1
Benzene	<1.8		1.8	0.46	ug/Kg	☼	09/21/17 17:50	09/23/17 19:55	1
Bromodichloromethane	<1.8		1.8	0.37	ug/Kg	☼	09/21/17 17:50	09/23/17 19:55	1
Bromoform	<1.8		1.8	0.53	ug/Kg	☼	09/21/17 17:50	09/23/17 19:55	1
Bromomethane	<4.5		4.5	1.7	ug/Kg	☼	09/21/17 17:50	09/23/17 19:55	1
Carbon disulfide	<4.5		4.5	0.94	ug/Kg	☼	09/21/17 17:50	09/23/17 19:55	1
Carbon tetrachloride	<1.8		1.8	0.52	ug/Kg	☼	09/21/17 17:50	09/23/17 19:55	1
Chlorobenzene	<1.8		1.8	0.67	ug/Kg	☼	09/21/17 17:50	09/23/17 19:55	1
Chloroethane	<4.5		4.5	1.3	ug/Kg	☼	09/21/17 17:50	09/23/17 19:55	1
Chloroform	<1.8		1.8	0.63	ug/Kg	☼	09/21/17 17:50	09/23/17 19:55	1
Chloromethane	<4.5		4.5	1.8	ug/Kg	☼	09/21/17 17:50	09/23/17 19:55	1
cis-1,2-Dichloroethene	<1.8		1.8	0.50	ug/Kg	☼	09/21/17 17:50	09/23/17 19:55	1
cis-1,3-Dichloropropene	<1.8		1.8	0.54	ug/Kg	☼	09/21/17 17:50	09/23/17 19:55	1
Dibromochloromethane	<1.8		1.8	0.59	ug/Kg	☼	09/21/17 17:50	09/23/17 19:55	1
1,1-Dichloroethane	<1.8		1.8	0.62	ug/Kg	☼	09/21/17 17:50	09/23/17 19:55	1
1,2-Dichloroethane	<4.5		4.5	1.4	ug/Kg	☼	09/21/17 17:50	09/23/17 19:55	1
1,1-Dichloroethene	<1.8		1.8	0.62	ug/Kg	☼	09/21/17 17:50	09/23/17 19:55	1
1,2-Dichloropropane	<1.8		1.8	0.47	ug/Kg	☼	09/21/17 17:50	09/23/17 19:55	1
1,3-Dichloropropene, Total	<1.8		1.8	0.63	ug/Kg	☼	09/21/17 17:50	09/23/17 19:55	1
Ethylbenzene	<1.8		1.8	0.86	ug/Kg	☼	09/21/17 17:50	09/23/17 19:55	1
2-Hexanone	<4.5		4.5	1.4	ug/Kg	☼	09/21/17 17:50	09/23/17 19:55	1
Methylene Chloride	<4.5		4.5	1.8	ug/Kg	☼	09/21/17 17:50	09/23/17 19:55	1
Methyl Ethyl Ketone	<4.5		4.5	2.0	ug/Kg	☼	09/21/17 17:50	09/23/17 19:55	1
methyl isobutyl ketone	<4.5		4.5	1.3	ug/Kg	☼	09/21/17 17:50	09/23/17 19:55	1
Methyl tert-butyl ether	<1.8		1.8	0.53	ug/Kg	☼	09/21/17 17:50	09/23/17 19:55	1
Styrene	<1.8		1.8	0.54	ug/Kg	☼	09/21/17 17:50	09/23/17 19:55	1
1,1,2,2-Tetrachloroethane	<1.8		1.8	0.58	ug/Kg	☼	09/21/17 17:50	09/23/17 19:55	1
Tetrachloroethene	<1.8		1.8	0.61	ug/Kg	☼	09/21/17 17:50	09/23/17 19:55	1
Toluene	<1.8		1.8	0.46	ug/Kg	☼	09/21/17 17:50	09/23/17 19:55	1
trans-1,2-Dichloroethene	<1.8		1.8	0.80	ug/Kg	☼	09/21/17 17:50	09/23/17 19:55	1
trans-1,3-Dichloropropene	<1.8		1.8	0.63	ug/Kg	☼	09/21/17 17:50	09/23/17 19:55	1
1,1,1-Trichloroethane	<1.8		1.8	0.60	ug/Kg	☼	09/21/17 17:50	09/23/17 19:55	1
1,1,2-Trichloroethane	<1.8		1.8	0.77	ug/Kg	☼	09/21/17 17:50	09/23/17 19:55	1
Trichloroethene	<1.8		1.8	0.61	ug/Kg	☼	09/21/17 17:50	09/23/17 19:55	1
Vinyl chloride	<1.8		1.8	0.80	ug/Kg	☼	09/21/17 17:50	09/23/17 19:55	1
Xylenes, Total	<3.6		3.6	0.58	ug/Kg	☼	09/21/17 17:50	09/23/17 19:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		75 - 131	09/21/17 17:50	09/23/17 19:55	1
Dibromofluoromethane	102		75 - 126	09/21/17 17:50	09/23/17 19:55	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134	09/21/17 17:50	09/23/17 19:55	1
Toluene-d8 (Surr)	103		75 - 124	09/21/17 17:50	09/23/17 19:55	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	☼	09/26/17 07:23	09/27/17 13:04	1
1,2-Dichlorobenzene	<200		200	47	ug/Kg	☼	09/26/17 07:23	09/27/17 13:04	1
1,3-Dichlorobenzene	<200		200	45	ug/Kg	☼	09/26/17 07:23	09/27/17 13:04	1
1,4-Dichlorobenzene	<200		200	51	ug/Kg	☼	09/26/17 07:23	09/27/17 13:04	1
2,2'-oxybis[1-chloropropane]	<200		200	46	ug/Kg	☼	09/26/17 07:23	09/27/17 13:04	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134344-1

Client Sample ID: FH-13(5-10)-092017

Lab Sample ID: 500-134344-2

Date Collected: 09/20/17 12:45

Matrix: Solid

Date Received: 09/20/17 16:37

Percent Solids: 80.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<390		390	91	ug/Kg	☼	09/26/17 07:23	09/27/17 13:04	1
2,4,6-Trichlorophenol	<390		390	140	ug/Kg	☼	09/26/17 07:23	09/27/17 13:04	1
2,4-Dichlorophenol	<390		390	94	ug/Kg	☼	09/26/17 07:23	09/27/17 13:04	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	09/26/17 07:23	09/27/17 13:04	1
2,4-Dinitrophenol	<800	*	800	700	ug/Kg	☼	09/26/17 07:23	09/27/17 13:04	1
2,4-Dinitrotoluene	<200		200	63	ug/Kg	☼	09/26/17 07:23	09/27/17 13:04	1
2,6-Dinitrotoluene	<200		200	78	ug/Kg	☼	09/26/17 07:23	09/27/17 13:04	1
2-Chloronaphthalene	<200		200	44	ug/Kg	☼	09/26/17 07:23	09/27/17 13:04	1
2-Chlorophenol	<200		200	68	ug/Kg	☼	09/26/17 07:23	09/27/17 13:04	1
2-Methylnaphthalene	<80		80	7.3	ug/Kg	☼	09/26/17 07:23	09/27/17 13:04	1
2-Methylphenol	<200		200	64	ug/Kg	☼	09/26/17 07:23	09/27/17 13:04	1
2-Nitroaniline	<200		200	53	ug/Kg	☼	09/26/17 07:23	09/27/17 13:04	1
2-Nitrophenol	<390		390	94	ug/Kg	☼	09/26/17 07:23	09/27/17 13:04	1
3 & 4 Methylphenol	<200		200	66	ug/Kg	☼	09/26/17 07:23	09/27/17 13:04	1
3,3'-Dichlorobenzidine	<200		200	56	ug/Kg	☼	09/26/17 07:23	09/27/17 13:04	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	09/26/17 07:23	09/27/17 13:04	1
4,6-Dinitro-2-methylphenol	<800		800	320	ug/Kg	☼	09/26/17 07:23	09/27/17 13:04	1
4-Bromophenyl phenyl ether	<200		200	52	ug/Kg	☼	09/26/17 07:23	09/27/17 13:04	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	09/26/17 07:23	09/27/17 13:04	1
4-Chloroaniline	<800		800	190	ug/Kg	☼	09/26/17 07:23	09/27/17 13:04	1
4-Chlorophenyl phenyl ether	<200		200	46	ug/Kg	☼	09/26/17 07:23	09/27/17 13:04	1
4-Nitroaniline	<390		390	170	ug/Kg	☼	09/26/17 07:23	09/27/17 13:04	1
4-Nitrophenol	<800		800	380	ug/Kg	☼	09/26/17 07:23	09/27/17 13:04	1
Acenaphthene	8.0	J	39	7.1	ug/Kg	☼	09/26/17 07:23	09/27/17 13:04	1
Acenaphthylene	<39		39	5.2	ug/Kg	☼	09/26/17 07:23	09/27/17 13:04	1
Anthracene	42		39	6.6	ug/Kg	☼	09/26/17 07:23	09/27/17 13:04	1
Benzo[a]anthracene	130		39	5.3	ug/Kg	☼	09/26/17 07:23	09/27/17 13:04	1
Benzo[a]pyrene	120		39	7.7	ug/Kg	☼	09/26/17 07:23	09/27/17 13:04	1
Benzo[b]fluoranthene	160		39	8.6	ug/Kg	☼	09/26/17 07:23	09/27/17 13:04	1
Benzo[g,h,i]perylene	74		39	13	ug/Kg	☼	09/26/17 07:23	09/27/17 13:04	1
Benzo[k]fluoranthene	51		39	12	ug/Kg	☼	09/26/17 07:23	09/27/17 13:04	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	☼	09/26/17 07:23	09/27/17 13:04	1
Bis(2-chloroethyl)ether	<200		200	59	ug/Kg	☼	09/26/17 07:23	09/27/17 13:04	1
Bis(2-ethylhexyl) phthalate	<200		200	72	ug/Kg	☼	09/26/17 07:23	09/27/17 13:04	1
Butyl benzyl phthalate	<200		200	75	ug/Kg	☼	09/26/17 07:23	09/27/17 13:04	1
Carbazole	<200		200	99	ug/Kg	☼	09/26/17 07:23	09/27/17 13:04	1
Chrysene	140		39	11	ug/Kg	☼	09/26/17 07:23	09/27/17 13:04	1
Dibenz(a,h)anthracene	17	J	39	7.7	ug/Kg	☼	09/26/17 07:23	09/27/17 13:04	1
Dibenzofuran	<200		200	46	ug/Kg	☼	09/26/17 07:23	09/27/17 13:04	1
Diethyl phthalate	<200		200	67	ug/Kg	☼	09/26/17 07:23	09/27/17 13:04	1
Dimethyl phthalate	<200		200	52	ug/Kg	☼	09/26/17 07:23	09/27/17 13:04	1
Di-n-butyl phthalate	<200		200	60	ug/Kg	☼	09/26/17 07:23	09/27/17 13:04	1
Di-n-octyl phthalate	<200		200	65	ug/Kg	☼	09/26/17 07:23	09/27/17 13:04	1
Fluoranthene	310		39	7.4	ug/Kg	☼	09/26/17 07:23	09/27/17 13:04	1
Fluorene	13	J	39	5.6	ug/Kg	☼	09/26/17 07:23	09/27/17 13:04	1
Hexachlorobenzene	<80		80	9.2	ug/Kg	☼	09/26/17 07:23	09/27/17 13:04	1
Hexachlorobutadiene	<200		200	62	ug/Kg	☼	09/26/17 07:23	09/27/17 13:04	1
Hexachlorocyclopentadiene	<800		800	230	ug/Kg	☼	09/26/17 07:23	09/27/17 13:04	1
Hexachloroethane	<200		200	60	ug/Kg	☼	09/26/17 07:23	09/27/17 13:04	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134344-1

Client Sample ID: FH-13(5-10)-092017

Lab Sample ID: 500-134344-2

Date Collected: 09/20/17 12:45

Matrix: Solid

Date Received: 09/20/17 16:37

Percent Solids: 80.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	67		39	10	ug/Kg	☼	09/26/17 07:23	09/27/17 13:04	1
Isophorone	<200		200	45	ug/Kg	☼	09/26/17 07:23	09/27/17 13:04	1
Naphthalene	<39		39	6.1	ug/Kg	☼	09/26/17 07:23	09/27/17 13:04	1
Nitrobenzene	<39		39	9.9	ug/Kg	☼	09/26/17 07:23	09/27/17 13:04	1
N-Nitrosodi-n-propylamine	<80		80	48	ug/Kg	☼	09/26/17 07:23	09/27/17 13:04	1
N-Nitrosodiphenylamine	<200		200	47	ug/Kg	☼	09/26/17 07:23	09/27/17 13:04	1
Pentachlorophenol	<800		800	640	ug/Kg	☼	09/26/17 07:23	09/27/17 13:04	1
Phenanthrene	190		39	5.5	ug/Kg	☼	09/26/17 07:23	09/27/17 13:04	1
Phenol	<200		200	88	ug/Kg	☼	09/26/17 07:23	09/27/17 13:04	1
Pyrene	260		39	7.9	ug/Kg	☼	09/26/17 07:23	09/27/17 13:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	57		25 - 139				09/26/17 07:23	09/27/17 13:04	1
2-Fluorobiphenyl	77		44 - 121				09/26/17 07:23	09/27/17 13:04	1
2-Fluorophenol	106		46 - 133				09/26/17 07:23	09/27/17 13:04	1
Nitrobenzene-d5	77		41 - 120				09/26/17 07:23	09/27/17 13:04	1
Phenol-d5	99		46 - 125				09/26/17 07:23	09/27/17 13:04	1
Terphenyl-d14	86		35 - 160				09/26/17 07:23	09/27/17 13:04	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/26/17 15:08	09/27/17 12:49	1
Barium	0.32	J	0.50	0.050	mg/L		09/26/17 15:08	09/27/17 12:49	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/26/17 15:08	09/27/17 12:49	1
Cadmium	0.0029	J	0.0050	0.0020	mg/L		09/26/17 15:08	09/27/17 12:49	1
Chromium	<0.025		0.025	0.010	mg/L		09/26/17 15:08	09/27/17 12:49	1
Cobalt	<0.025		0.025	0.010	mg/L		09/26/17 15:08	09/27/17 12:49	1
Copper	0.28	B	0.20	0.010	mg/L		09/26/17 15:08	09/27/17 12:49	1
Iron	<0.40		0.40	0.20	mg/L		09/26/17 15:08	09/27/17 12:49	1
Lead	0.011		0.0075	0.0075	mg/L		09/26/17 15:08	09/27/17 12:49	1
Manganese	1.2		0.025	0.010	mg/L		09/26/17 15:08	09/27/17 12:49	1
Nickel	0.018	J	0.025	0.010	mg/L		09/26/17 15:08	09/27/17 12:49	1
Selenium	<0.050		0.050	0.020	mg/L		09/26/17 15:08	09/27/17 12:49	1
Silver	<0.025		0.025	0.010	mg/L		09/26/17 15:08	09/27/17 12:49	1
Zinc	0.23	J ^ B	0.50	0.020	mg/L		09/26/17 15:08	09/27/17 12:49	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		09/25/17 07:12	09/26/17 03:54	1
Barium	0.14	J	0.50	0.050	mg/L		09/25/17 07:12	09/26/17 03:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/25/17 07:12	09/26/17 03:54	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/25/17 07:12	09/26/17 03:54	1
Chromium	0.024	J	0.025	0.010	mg/L		09/25/17 07:12	09/26/17 03:54	1
Cobalt	<0.025		0.025	0.010	mg/L		09/25/17 07:12	09/26/17 03:54	1
Copper	0.041		0.025	0.010	mg/L		09/25/17 07:12	09/26/17 03:54	1
Iron	18		0.40	0.20	mg/L		09/25/17 07:12	09/26/17 03:54	1
Lead	0.013		0.0075	0.0075	mg/L		09/25/17 07:12	09/26/17 03:54	1
Manganese	0.090		0.025	0.010	mg/L		09/25/17 07:12	09/26/17 03:54	1
Nickel	0.019	J	0.025	0.010	mg/L		09/25/17 07:12	09/26/17 03:54	1
Selenium	<0.050		0.050	0.020	mg/L		09/25/17 07:12	09/26/17 03:54	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134344-1

Client Sample ID: FH-13(5-10)-092017

Lab Sample ID: 500-134344-2

Date Collected: 09/20/17 12:45

Matrix: Solid

Date Received: 09/20/17 16:37

Percent Solids: 80.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		09/25/17 07:12	09/26/17 03:54	1
Zinc	0.10	J	0.50	0.020	mg/L		09/25/17 07:12	09/26/17 03:54	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.23	mg/Kg	☼	09/22/17 17:18	09/25/17 18:35	1
Arsenic	12		0.60	0.21	mg/Kg	☼	09/22/17 17:18	09/25/17 18:35	1
Barium	51		0.60	0.069	mg/Kg	☼	09/22/17 17:18	09/25/17 18:35	1
Beryllium	0.71		0.24	0.056	mg/Kg	☼	09/22/17 17:18	09/25/17 18:35	1
Cadmium	0.28	B	0.12	0.022	mg/Kg	☼	09/22/17 17:18	09/25/17 18:35	1
Calcium	29000	B	12	2.0	mg/Kg	☼	09/22/17 17:18	09/25/17 18:35	1
Chromium	16		0.60	0.30	mg/Kg	☼	09/22/17 17:18	09/25/17 18:35	1
Cobalt	20		0.30	0.079	mg/Kg	☼	09/22/17 17:18	09/25/17 18:35	1
Copper	33		0.60	0.17	mg/Kg	☼	09/22/17 17:18	09/25/17 18:35	1
Iron	22000	B	12	6.3	mg/Kg	☼	09/22/17 17:18	09/25/17 18:35	1
Lead	23		0.30	0.14	mg/Kg	☼	09/22/17 17:18	09/25/17 18:35	1
Magnesium	20000		6.0	3.0	mg/Kg	☼	09/22/17 17:18	09/25/17 18:35	1
Manganese	740		0.60	0.087	mg/Kg	☼	09/22/17 17:18	09/25/17 18:35	1
Nickel	37		0.60	0.17	mg/Kg	☼	09/22/17 17:18	09/25/17 18:35	1
Potassium	2100		30	11	mg/Kg	☼	09/22/17 17:18	09/25/17 18:35	1
Selenium	0.79		0.60	0.35	mg/Kg	☼	09/22/17 17:18	09/25/17 18:35	1
Silver	<0.30		0.30	0.078	mg/Kg	☼	09/22/17 17:18	09/25/17 18:35	1
Sodium	110		60	8.9	mg/Kg	☼	09/22/17 17:18	09/25/17 18:35	1
Thallium	<0.60		0.60	0.30	mg/Kg	☼	09/22/17 17:18	09/25/17 18:35	1
Vanadium	23		0.30	0.071	mg/Kg	☼	09/22/17 17:18	09/25/17 18:35	1
Zinc	58		1.2	0.53	mg/Kg	☼	09/22/17 17:18	09/25/17 18:35	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		09/26/17 14:10	09/27/17 08:21	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		09/25/17 16:40	09/26/17 11:32	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	15	J F1 F2	19	6.4	ug/Kg	☼	09/26/17 12:40	09/27/17 08:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.1		0.20	0.20	SU			09/25/17 22:11	1

Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134344-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	ISTD response or retention time outside acceptable limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

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

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.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
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.
F2	MS/MSD RPD exceeds control limits
F4	MS/MSD RPD exceeds control limits due to sample size difference.

Glossary

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

Accreditation/Certification Summary

Client: Weston Solutions, Inc.

TestAmerica Job ID: 500-134344-1

Project/Site: IDOT - Eisenhower Expressway - WO 062

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Illinois	NELAP	5	100201	04-30-19

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

Analysis Method	Prep Method	Matrix	Analyte
8260B	5035	Solid	1,3-Dichloropropene, Total
9045D		Solid	pH
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

TestAmerica

THE LEADER IN ENVIRONMENTAL T

2417 Bond Street, University Park, IL 6048
Phone: 708.534.5200 Fax: 708.534.51



500-134344 COC

Report To (optional)
Contact: Babu
Company: Weston Solutions
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: _____

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

Chain of Custody Record

Lab Job #: 500-134344
Chain of Custody Number: _____
Page 3 of 5
Temperature °C of Cooler: 20, 3, 3, 4, 4, 6, 2, 7

Client		Client Project #		Preservative		Parameter		Matrix		Comments	
<u>Weston Solutions</u>											
Project Name		Lab Project #		# of Containers		Matrix		Matrix		Comments	
<u>IDOT 062 - Eisenhower Expressway</u>											
Project Location/State		Lab PM		Date		Time		Matrix		Comments	
<u>Forest Park, IL</u>		<u>R. Wright</u>									
Sampler		Sample ID		Date		Time		Matrix		Comments	
<u>VTS Hard</u>											
Lab ID	MS/MSD	Sample ID		Date		Time		# of Containers	Matrix	Comments	
		PS-11092017		09/20/17		1105		6	W	ALL	
<u>1</u>		<u>FH-13(0-5)-092017</u>		<u>09/20/17</u>		<u>1235</u>		<u>6</u>	<u>S</u>	<u>X</u>	<u>X</u>
<u>2</u>		<u>FH-13(5-10)-092017</u>		<u>09/20/17</u>		<u>1245</u>		<u>6</u>	<u>S</u>	<u>X</u>	<u>X</u>
<u>3</u>		<u>FH-13(10-15)-092017</u>		<u>09/20/17</u>		<u>1255</u>		<u>6</u>	<u>S</u>	<u>X</u>	<u>X</u>
<u>4</u>		<u>FH-13(15-20)-092017</u>		<u>09/20/17</u>		<u>1305</u>		<u>6</u>	<u>S</u>	<u>X</u>	<u>X</u>
<u>5</u>		<u>FH-13(20-25)-092017</u>		<u>09/20/17</u>		<u>1320</u>		<u>6</u>	<u>S</u>	<u>X</u>	<u>X</u>
<u>6</u>		<u>FH-13(20-25)-092017D</u>		<u>09/20/17</u>		<u>1310</u>		<u>6</u>	<u>S</u>	<u>X</u>	<u>X</u>
<u>7</u>		<u>FH-13(25-30)-09-2017</u>		<u>09/20/17</u>		<u>1340</u>		<u>6</u>	<u>S</u>	<u>X</u>	<u>X</u>
<u>8</u>		<u>FH-13(30-38)-092017</u>		<u>09/20/17</u>		<u>1355</u>		<u>6</u>	<u>S</u>	<u>X</u>	<u>X</u>
<u>9</u>		<u>FH-13(38-46)-092017</u>		<u>09/20/17</u>		<u>1410</u>		<u>6</u>	<u>S</u>	<u>X</u>	<u>X</u>

Turnaround Time Required (Business Days) _____ 1 Day _____ 2 Days _____ 5 Days _____ 7 Days _____ 10 Days _____ 15 Days _____ Other _____
Requested Due Date _____
Sample Disposal: Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: <u>Katy Jensen</u> Company: _____ Date: <u>9/20/17</u> Time: <u>1527</u>	Received By: <u>P. Neal</u> Company: <u>TA</u> Date: <u>9/20/17</u> Time: <u>1527</u>	Lab Courier: <u>TIA</u>
Relinquished By: <u>P. Neal</u> Company: <u>TA</u> Date: <u>9/20/17</u> Time: <u>1637</u>	Received By: <u>Shawn</u> Company: <u>TA-CHI</u> Date: <u>9/21/17</u> Time: <u>0730</u>	Shipped: _____
Relinquished By: _____ Company: _____ Date: _____ Time: _____	Received By: _____ Company: _____ Date: _____ Time: _____	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

Report To (optional)
Contact: Bubu
Company: Western
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: _____

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

Chain of Custody Record

Lab Job #: 500-134344
Chain of Custody Number: _____
Page 4 of 5
Temperature °C of Cooler: 2.0, 3.3, 4.4, 6.2, 7

Client		Client Project #		Preservative		Parameter		Matrix		Comments	
<u>Western Solutions</u>		<u>1100T 062-Eisenhower Expressway</u>								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	
Project Name		Project Location/State		Lab Project #		Lab RM					
<u>Forest Park, IL</u>		<u>Forest Park, IL</u>				<u>12. Wright</u>					
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix					
<u>10</u>		<u>PS-4(10-5)-092017</u>	<u>09-20-17</u>	<u>0910</u>	<u>6</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>11</u>		<u>PS-4(5-10)-092017</u>	<u>09-20-17</u>	<u>0820</u>	<u>6</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>12</u>		<u>PS-4(10-15)-092017</u>	<u>09-20-17</u>	<u>0830</u>	<u>6</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>13</u>		<u>PS-4(15-20)-092017</u>	<u>09-20-17</u>	<u>0840</u>	<u>6</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>14</u>		<u>PS-4(20-25)-092017</u>	<u>09-20-17</u>	<u>0850</u>	<u>6</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>15</u>		<u>PS-4(20-25)-092017(D)</u>	<u>09-20-17</u>	<u>0850</u>	<u>6</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>16</u>		<u>PS-4(25-30)-092017</u>	<u>09-20-17</u>	<u>0910</u>	<u>6</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>17</u>		<u>PS-4(30-38)-092017</u>	<u>09-20-17</u>	<u>0930</u>	<u>6</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>18</u>		<u>PS-4(38-46)-092017</u>	<u>09-20-17</u>	<u>1000</u>	<u>6</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>19</u>		<u>PS-4(46-54)-092017</u>	<u>09-20-17</u>	<u>1030</u>	<u>6</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>

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

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

Relinquished By <u>[Signature]</u> Company: <u>Western</u> Date: <u>09/20/17</u> Time: <u>1527</u>	Received By <u>[Signature]</u> Company: <u>TA</u> Date: <u>9/20/17</u> Time: <u>1527</u>	Lab Courier <u>TA</u>
Relinquished By <u>[Signature]</u> Company: <u>TA</u> Date: <u>9/20/17</u> Time: <u>1459</u>	Received By <u>[Signature]</u> Company: <u>TA-CAF</u> Date: <u>9/21/17</u> Time: <u>0730</u>	Shipped _____
Relinquished By _____ Company: _____ Date: _____ Time: _____	Received By _____ Company: _____ Date: _____ Time: _____	Hand Delivered _____

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

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: 500-134432-1

Client Project/Site: IDOT - Eisenhower Expressway - WO 062

For:

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

Attn: Mr. S. Babusukumar



Authorized for release by:
9/29/2017 1:18:18 PM

Richard Wright, Senior Project Manager
(708)534-5200
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LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134432-1

Client Sample ID: FH-12(0-5)-092117

Lab Sample ID: 500-134432-8

Date Collected: 09/21/17 08:19

Matrix: Solid

Date Received: 09/21/17 16:15

Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<25	*	25	11	ug/Kg	☼	09/22/17 08:20	09/25/17 16:38	1
Benzene	<2.5		2.5	0.63	ug/Kg	☼	09/22/17 08:20	09/25/17 16:38	1
Bromodichloromethane	<2.5		2.5	0.51	ug/Kg	☼	09/22/17 08:20	09/25/17 16:38	1
Bromoform	<2.5		2.5	0.72	ug/Kg	☼	09/22/17 08:20	09/25/17 16:38	1
Bromomethane	<6.2		6.2	2.3	ug/Kg	☼	09/22/17 08:20	09/25/17 16:38	1
Carbon disulfide	<6.2		6.2	1.3	ug/Kg	☼	09/22/17 08:20	09/25/17 16:38	1
Carbon tetrachloride	<2.5		2.5	0.72	ug/Kg	☼	09/22/17 08:20	09/25/17 16:38	1
Chlorobenzene	<2.5		2.5	0.92	ug/Kg	☼	09/22/17 08:20	09/25/17 16:38	1
Chloroethane	<6.2		6.2	1.8	ug/Kg	☼	09/22/17 08:20	09/25/17 16:38	1
Chloroform	<2.5		2.5	0.86	ug/Kg	☼	09/22/17 08:20	09/25/17 16:38	1
Chloromethane	<6.2		6.2	2.5	ug/Kg	☼	09/22/17 08:20	09/25/17 16:38	1
cis-1,2-Dichloroethene	<2.5		2.5	0.69	ug/Kg	☼	09/22/17 08:20	09/25/17 16:38	1
cis-1,3-Dichloropropene	<2.5		2.5	0.75	ug/Kg	☼	09/22/17 08:20	09/25/17 16:38	1
Dibromochloromethane	<2.5		2.5	0.81	ug/Kg	☼	09/22/17 08:20	09/25/17 16:38	1
1,1-Dichloroethane	<2.5		2.5	0.85	ug/Kg	☼	09/22/17 08:20	09/25/17 16:38	1
1,2-Dichloroethane	<6.2		6.2	1.9	ug/Kg	☼	09/22/17 08:20	09/25/17 16:38	1
1,1-Dichloroethene	<2.5		2.5	0.85	ug/Kg	☼	09/22/17 08:20	09/25/17 16:38	1
1,2-Dichloropropane	<2.5		2.5	0.64	ug/Kg	☼	09/22/17 08:20	09/25/17 16:38	1
1,3-Dichloropropene, Total	<2.5		2.5	0.87	ug/Kg	☼	09/22/17 08:20	09/25/17 16:38	1
Ethylbenzene	<2.5		2.5	1.2	ug/Kg	☼	09/22/17 08:20	09/25/17 16:38	1
2-Hexanone	<6.2		6.2	1.9	ug/Kg	☼	09/22/17 08:20	09/25/17 16:38	1
Methylene Chloride	<6.2		6.2	2.4	ug/Kg	☼	09/22/17 08:20	09/25/17 16:38	1
Methyl Ethyl Ketone	<6.2		6.2	2.8	ug/Kg	☼	09/22/17 08:20	09/25/17 16:38	1
methyl isobutyl ketone	<6.2		6.2	1.8	ug/Kg	☼	09/22/17 08:20	09/25/17 16:38	1
Methyl tert-butyl ether	<2.5		2.5	0.73	ug/Kg	☼	09/22/17 08:20	09/25/17 16:38	1
Styrene	<2.5		2.5	0.75	ug/Kg	☼	09/22/17 08:20	09/25/17 16:38	1
1,1,2,2-Tetrachloroethane	<2.5		2.5	0.79	ug/Kg	☼	09/22/17 08:20	09/25/17 16:38	1
Tetrachloroethene	<2.5		2.5	0.85	ug/Kg	☼	09/22/17 08:20	09/25/17 16:38	1
Toluene	<2.5		2.5	0.63	ug/Kg	☼	09/22/17 08:20	09/25/17 16:38	1
trans-1,2-Dichloroethene	<2.5		2.5	1.1	ug/Kg	☼	09/22/17 08:20	09/25/17 16:38	1
trans-1,3-Dichloropropene	<2.5		2.5	0.87	ug/Kg	☼	09/22/17 08:20	09/25/17 16:38	1
1,1,1-Trichloroethane	<2.5		2.5	0.83	ug/Kg	☼	09/22/17 08:20	09/25/17 16:38	1
1,1,2-Trichloroethane	<2.5		2.5	1.1	ug/Kg	☼	09/22/17 08:20	09/25/17 16:38	1
Trichloroethene	<2.5		2.5	0.84	ug/Kg	☼	09/22/17 08:20	09/25/17 16:38	1
Vinyl chloride	<2.5		2.5	1.1	ug/Kg	☼	09/22/17 08:20	09/25/17 16:38	1
Xylenes, Total	<5.0		5.0	0.79	ug/Kg	☼	09/22/17 08:20	09/25/17 16:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		75 - 131	09/22/17 08:20	09/25/17 16:38	1
Dibromofluoromethane	100		75 - 126	09/22/17 08:20	09/25/17 16:38	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	09/22/17 08:20	09/25/17 16:38	1
Toluene-d8 (Surr)	95		75 - 124	09/22/17 08:20	09/25/17 16:38	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	☼	09/27/17 07:02	09/28/17 15:27	1
1,2-Dichlorobenzene	<200		200	47	ug/Kg	☼	09/27/17 07:02	09/28/17 15:27	1
1,3-Dichlorobenzene	<200		200	44	ug/Kg	☼	09/27/17 07:02	09/28/17 15:27	1
1,4-Dichlorobenzene	<200		200	50	ug/Kg	☼	09/27/17 07:02	09/28/17 15:27	1
2,2'-oxybis[1-chloropropane]	<200		200	45	ug/Kg	☼	09/27/17 07:02	09/28/17 15:27	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134432-1

Client Sample ID: FH-12(0-5)-092117

Lab Sample ID: 500-134432-8

Date Collected: 09/21/17 08:19

Matrix: Solid

Date Received: 09/21/17 16:15

Percent Solids: 84.9

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	☼	09/27/17 07:02	09/28/17 15:27	1
2,4,6-Trichlorophenol	<390		390	130	ug/Kg	☼	09/27/17 07:02	09/28/17 15:27	1
2,4-Dichlorophenol	<390		390	93	ug/Kg	☼	09/27/17 07:02	09/28/17 15:27	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	09/27/17 07:02	09/28/17 15:27	1
2,4-Dinitrophenol	<790		790	690	ug/Kg	☼	09/27/17 07:02	09/28/17 15:27	1
2,4-Dinitrotoluene	<200		200	62	ug/Kg	☼	09/27/17 07:02	09/28/17 15:27	1
2,6-Dinitrotoluene	<200		200	77	ug/Kg	☼	09/27/17 07:02	09/28/17 15:27	1
2-Chloronaphthalene	<200		200	43	ug/Kg	☼	09/27/17 07:02	09/28/17 15:27	1
2-Chlorophenol	<200		200	67	ug/Kg	☼	09/27/17 07:02	09/28/17 15:27	1
2-Methylnaphthalene	<79		79	7.2	ug/Kg	☼	09/27/17 07:02	09/28/17 15:27	1
2-Methylphenol	<200		200	63	ug/Kg	☼	09/27/17 07:02	09/28/17 15:27	1
2-Nitroaniline	<200		200	53	ug/Kg	☼	09/27/17 07:02	09/28/17 15:27	1
2-Nitrophenol	<390		390	92	ug/Kg	☼	09/27/17 07:02	09/28/17 15:27	1
3 & 4 Methylphenol	<200		200	65	ug/Kg	☼	09/27/17 07:02	09/28/17 15:27	1
3,3'-Dichlorobenzidine	<200		200	55	ug/Kg	☼	09/27/17 07:02	09/28/17 15:27	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	09/27/17 07:02	09/28/17 15:27	1
4,6-Dinitro-2-methylphenol	<790		790	310	ug/Kg	☼	09/27/17 07:02	09/28/17 15:27	1
4-Bromophenyl phenyl ether	<200		200	51	ug/Kg	☼	09/27/17 07:02	09/28/17 15:27	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	09/27/17 07:02	09/28/17 15:27	1
4-Chloroaniline	<790		790	180	ug/Kg	☼	09/27/17 07:02	09/28/17 15:27	1
4-Chlorophenyl phenyl ether	<200		200	46	ug/Kg	☼	09/27/17 07:02	09/28/17 15:27	1
4-Nitroaniline	<390		390	160	ug/Kg	☼	09/27/17 07:02	09/28/17 15:27	1
4-Nitrophenol	<790		790	370	ug/Kg	☼	09/27/17 07:02	09/28/17 15:27	1
Acenaphthene	<39		39	7.0	ug/Kg	☼	09/27/17 07:02	09/28/17 15:27	1
Acenaphthylene	<39		39	5.1	ug/Kg	☼	09/27/17 07:02	09/28/17 15:27	1
Anthracene	15 J		39	6.5	ug/Kg	☼	09/27/17 07:02	09/28/17 15:27	1
Benzo[a]anthracene	59		39	5.3	ug/Kg	☼	09/27/17 07:02	09/28/17 15:27	1
Benzo[a]pyrene	60		39	7.6	ug/Kg	☼	09/27/17 07:02	09/28/17 15:27	1
Benzo[b]fluoranthene	79		39	8.4	ug/Kg	☼	09/27/17 07:02	09/28/17 15:27	1
Benzo[g,h,i]perylene	37 J		39	13	ug/Kg	☼	09/27/17 07:02	09/28/17 15:27	1
Benzo[k]fluoranthene	30 J		39	12	ug/Kg	☼	09/27/17 07:02	09/28/17 15:27	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	☼	09/27/17 07:02	09/28/17 15:27	1
Bis(2-chloroethyl)ether	<200		200	59	ug/Kg	☼	09/27/17 07:02	09/28/17 15:27	1
Bis(2-ethylhexyl) phthalate	<200		200	71	ug/Kg	☼	09/27/17 07:02	09/28/17 15:27	1
Butyl benzyl phthalate	<200		200	74	ug/Kg	☼	09/27/17 07:02	09/28/17 15:27	1
Carbazole	<200		200	98	ug/Kg	☼	09/27/17 07:02	09/28/17 15:27	1
Chrysene	72		39	11	ug/Kg	☼	09/27/17 07:02	09/28/17 15:27	1
Dibenz(a,h)anthracene	<39		39	7.5	ug/Kg	☼	09/27/17 07:02	09/28/17 15:27	1
Dibenzofuran	<200		200	46	ug/Kg	☼	09/27/17 07:02	09/28/17 15:27	1
Diethyl phthalate	<200		200	66	ug/Kg	☼	09/27/17 07:02	09/28/17 15:27	1
Dimethyl phthalate	<200		200	51	ug/Kg	☼	09/27/17 07:02	09/28/17 15:27	1
Di-n-butyl phthalate	<200		200	59	ug/Kg	☼	09/27/17 07:02	09/28/17 15:27	1
Di-n-octyl phthalate	<200		200	64	ug/Kg	☼	09/27/17 07:02	09/28/17 15:27	1
Fluoranthene	140		39	7.2	ug/Kg	☼	09/27/17 07:02	09/28/17 15:27	1
Fluorene	6.2 J		39	5.5	ug/Kg	☼	09/27/17 07:02	09/28/17 15:27	1
Hexachlorobenzene	<79		79	9.0	ug/Kg	☼	09/27/17 07:02	09/28/17 15:27	1
Hexachlorobutadiene	<200		200	61	ug/Kg	☼	09/27/17 07:02	09/28/17 15:27	1
Hexachlorocyclopentadiene	<790		790	220	ug/Kg	☼	09/27/17 07:02	09/28/17 15:27	1
Hexachloroethane	<200		200	59	ug/Kg	☼	09/27/17 07:02	09/28/17 15:27	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134432-1

Client Sample ID: FH-12(0-5)-092117

Lab Sample ID: 500-134432-8

Date Collected: 09/21/17 08:19

Matrix: Solid

Date Received: 09/21/17 16:15

Percent Solids: 84.9

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	31	J	39	10	ug/Kg	☼	09/27/17 07:02	09/28/17 15:27	1
Isophorone	<200		200	44	ug/Kg	☼	09/27/17 07:02	09/28/17 15:27	1
Naphthalene	<39		39	6.0	ug/Kg	☼	09/27/17 07:02	09/28/17 15:27	1
Nitrobenzene	<39		39	9.7	ug/Kg	☼	09/27/17 07:02	09/28/17 15:27	1
N-Nitrosodi-n-propylamine	<79		79	48	ug/Kg	☼	09/27/17 07:02	09/28/17 15:27	1
N-Nitrosodiphenylamine	<200		200	46	ug/Kg	☼	09/27/17 07:02	09/28/17 15:27	1
Pentachlorophenol	<790		790	630	ug/Kg	☼	09/27/17 07:02	09/28/17 15:27	1
Phenanthrene	82		39	5.4	ug/Kg	☼	09/27/17 07:02	09/28/17 15:27	1
Phenol	<200		200	87	ug/Kg	☼	09/27/17 07:02	09/28/17 15:27	1
Pyrene	100		39	7.8	ug/Kg	☼	09/27/17 07:02	09/28/17 15:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>2,4,6-Tribromophenol</i>	88		25 - 139				09/27/17 07:02	09/28/17 15:27	1
<i>2-Fluorobiphenyl</i>	95		44 - 121				09/27/17 07:02	09/28/17 15:27	1
<i>2-Fluorophenol</i>	128		46 - 133				09/27/17 07:02	09/28/17 15:27	1
<i>Nitrobenzene-d5</i>	97		41 - 120				09/27/17 07:02	09/28/17 15:27	1
<i>Phenol-d5</i>	112		46 - 125				09/27/17 07:02	09/28/17 15:27	1
<i>Terphenyl-d14</i>	119		35 - 160				09/27/17 07:02	09/28/17 15:27	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/27/17 15:41	09/28/17 13:12	1
Barium	0.26	J	0.50	0.050	mg/L		09/27/17 15:41	09/28/17 13:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/27/17 15:41	09/28/17 13:12	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/27/17 15:41	09/28/17 13:12	1
Chromium	<0.025		0.025	0.010	mg/L		09/27/17 15:41	09/28/17 13:12	1
Cobalt	<0.025		0.025	0.010	mg/L		09/27/17 15:41	09/28/17 13:12	1
Copper	<0.025		0.025	0.010	mg/L		09/27/17 15:41	09/28/17 13:12	1
Iron	<0.40		0.40	0.20	mg/L		09/27/17 15:41	09/28/17 13:12	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/27/17 15:41	09/28/17 13:12	1
Manganese	0.11		0.025	0.010	mg/L		09/27/17 15:41	09/28/17 13:12	1
Nickel	<0.025		0.025	0.010	mg/L		09/27/17 15:41	09/28/17 13:12	1
Selenium	<0.050		0.050	0.020	mg/L		09/27/17 15:41	09/28/17 13:12	1
Silver	<0.025		0.025	0.010	mg/L		09/27/17 15:41	09/28/17 13:12	1
Zinc	<0.50		0.50	0.020	mg/L		09/27/17 15:41	09/28/17 13:12	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		09/27/17 15:43	09/28/17 13:13	1
Barium	<0.50		0.50	0.050	mg/L		09/27/17 15:43	09/28/17 13:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/27/17 15:43	09/28/17 13:13	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/27/17 15:43	09/28/17 13:13	1
Chromium	<0.025		0.025	0.010	mg/L		09/27/17 15:43	09/28/17 13:13	1
Cobalt	<0.025		0.025	0.010	mg/L		09/27/17 15:43	09/28/17 13:13	1
Copper	<0.025		0.025	0.010	mg/L		09/27/17 15:43	09/28/17 13:13	1
Iron	6.1		0.40	0.20	mg/L		09/27/17 15:43	09/28/17 13:13	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/27/17 15:43	09/28/17 13:13	1
Manganese	0.024	J	0.025	0.010	mg/L		09/27/17 15:43	09/28/17 13:13	1
Nickel	<0.025		0.025	0.010	mg/L		09/27/17 15:43	09/28/17 13:13	1
Selenium	<0.050		0.050	0.020	mg/L		09/27/17 15:43	09/28/17 13:13	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134432-1

Client Sample ID: FH-12(0-5)-092117

Lab Sample ID: 500-134432-8

Date Collected: 09/21/17 08:19

Matrix: Solid

Date Received: 09/21/17 16:15

Percent Solids: 84.9

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		09/27/17 15:43	09/28/17 13:13	1
Zinc	<0.50	^	0.50	0.020	mg/L		09/27/17 15:43	09/28/17 13:13	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.27	J	1.1	0.22	mg/Kg	☼	09/26/17 07:58	09/26/17 19:04	1
Arsenic	8.4		0.57	0.20	mg/Kg	☼	09/26/17 07:58	09/26/17 19:04	1
Barium	48		0.57	0.065	mg/Kg	☼	09/26/17 07:58	09/26/17 19:04	1
Beryllium	0.60		0.23	0.054	mg/Kg	☼	09/26/17 07:58	09/26/17 19:04	1
Cadmium	0.18		0.11	0.021	mg/Kg	☼	09/26/17 07:58	09/26/17 19:04	1
Calcium	23000	B	11	1.9	mg/Kg	☼	09/26/17 07:58	09/26/17 19:04	1
Chromium	16		0.57	0.28	mg/Kg	☼	09/26/17 07:58	09/26/17 19:04	1
Cobalt	15		0.29	0.075	mg/Kg	☼	09/26/17 07:58	09/26/17 19:04	1
Copper	27		0.57	0.16	mg/Kg	☼	09/26/17 07:58	09/26/17 19:04	1
Iron	20000	B	11	6.0	mg/Kg	☼	09/26/17 07:58	09/26/17 19:04	1
Lead	21		0.29	0.13	mg/Kg	☼	09/26/17 07:58	09/26/17 19:04	1
Magnesium	16000	B	5.7	2.8	mg/Kg	☼	09/26/17 07:58	09/26/17 19:04	1
Manganese	580	B	0.57	0.083	mg/Kg	☼	09/26/17 07:58	09/26/17 19:04	1
Nickel	35		0.57	0.17	mg/Kg	☼	09/26/17 07:58	09/26/17 19:04	1
Potassium	1600		29	10	mg/Kg	☼	09/26/17 07:58	09/26/17 19:04	1
Selenium	0.44	J	0.57	0.34	mg/Kg	☼	09/26/17 07:58	09/26/17 19:04	1
Silver	<0.29		0.29	0.074	mg/Kg	☼	09/26/17 07:58	09/26/17 19:04	1
Sodium	79		57	8.5	mg/Kg	☼	09/26/17 07:58	09/26/17 19:04	1
Thallium	<0.57		0.57	0.29	mg/Kg	☼	09/26/17 07:58	09/26/17 19:04	1
Vanadium	19		0.29	0.068	mg/Kg	☼	09/26/17 07:58	09/26/17 19:04	1
Zinc	61		1.1	0.50	mg/Kg	☼	09/26/17 07:58	09/26/17 19:04	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		09/27/17 15:10	09/28/17 08:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		09/27/17 15:10	09/28/17 08:55	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	34		18	5.9	ug/Kg	☼	09/27/17 13:30	09/28/17 09:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.0		0.20	0.20	SU			09/26/17 23:26	1

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134432-1

Client Sample ID: FH-12(5-10)-092117

Lab Sample ID: 500-134432-9

Date Collected: 09/21/17 08:25

Matrix: Solid

Date Received: 09/21/17 16:15

Percent Solids: 82.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	47	*	16	7.1	ug/Kg	☼	09/22/17 08:20	09/25/17 17:03	1
Benzene	<1.6		1.6	0.42	ug/Kg	☼	09/22/17 08:20	09/25/17 17:03	1
Bromodichloromethane	<1.6		1.6	0.33	ug/Kg	☼	09/22/17 08:20	09/25/17 17:03	1
Bromoform	<1.6		1.6	0.48	ug/Kg	☼	09/22/17 08:20	09/25/17 17:03	1
Bromomethane	<4.1		4.1	1.5	ug/Kg	☼	09/22/17 08:20	09/25/17 17:03	1
Carbon disulfide	<4.1		4.1	0.85	ug/Kg	☼	09/22/17 08:20	09/25/17 17:03	1
Carbon tetrachloride	<1.6		1.6	0.47	ug/Kg	☼	09/22/17 08:20	09/25/17 17:03	1
Chlorobenzene	<1.6		1.6	0.60	ug/Kg	☼	09/22/17 08:20	09/25/17 17:03	1
Chloroethane	<4.1		4.1	1.2	ug/Kg	☼	09/22/17 08:20	09/25/17 17:03	1
Chloroform	<1.6		1.6	0.57	ug/Kg	☼	09/22/17 08:20	09/25/17 17:03	1
Chloromethane	<4.1		4.1	1.6	ug/Kg	☼	09/22/17 08:20	09/25/17 17:03	1
cis-1,2-Dichloroethene	<1.6		1.6	0.46	ug/Kg	☼	09/22/17 08:20	09/25/17 17:03	1
cis-1,3-Dichloropropene	<1.6		1.6	0.49	ug/Kg	☼	09/22/17 08:20	09/25/17 17:03	1
Dibromochloromethane	<1.6		1.6	0.53	ug/Kg	☼	09/22/17 08:20	09/25/17 17:03	1
1,1-Dichloroethane	<1.6		1.6	0.56	ug/Kg	☼	09/22/17 08:20	09/25/17 17:03	1
1,2-Dichloroethane	<4.1		4.1	1.3	ug/Kg	☼	09/22/17 08:20	09/25/17 17:03	1
1,1-Dichloroethene	<1.6		1.6	0.56	ug/Kg	☼	09/22/17 08:20	09/25/17 17:03	1
1,2-Dichloropropane	<1.6		1.6	0.42	ug/Kg	☼	09/22/17 08:20	09/25/17 17:03	1
1,3-Dichloropropane, Total	<1.6		1.6	0.57	ug/Kg	☼	09/22/17 08:20	09/25/17 17:03	1
Ethylbenzene	<1.6		1.6	0.78	ug/Kg	☼	09/22/17 08:20	09/25/17 17:03	1
2-Hexanone	<4.1		4.1	1.3	ug/Kg	☼	09/22/17 08:20	09/25/17 17:03	1
Methylene Chloride	<4.1		4.1	1.6	ug/Kg	☼	09/22/17 08:20	09/25/17 17:03	1
Methyl Ethyl Ketone	<4.1		4.1	1.8	ug/Kg	☼	09/22/17 08:20	09/25/17 17:03	1
methyl isobutyl ketone	<4.1		4.1	1.2	ug/Kg	☼	09/22/17 08:20	09/25/17 17:03	1
Methyl tert-butyl ether	<1.6		1.6	0.48	ug/Kg	☼	09/22/17 08:20	09/25/17 17:03	1
Styrene	<1.6		1.6	0.49	ug/Kg	☼	09/22/17 08:20	09/25/17 17:03	1
1,1,2,2-Tetrachloroethane	<1.6		1.6	0.52	ug/Kg	☼	09/22/17 08:20	09/25/17 17:03	1
Tetrachloroethene	<1.6		1.6	0.55	ug/Kg	☼	09/22/17 08:20	09/25/17 17:03	1
Toluene	<1.6		1.6	0.41	ug/Kg	☼	09/22/17 08:20	09/25/17 17:03	1
trans-1,2-Dichloroethene	<1.6		1.6	0.72	ug/Kg	☼	09/22/17 08:20	09/25/17 17:03	1
trans-1,3-Dichloropropene	<1.6		1.6	0.57	ug/Kg	☼	09/22/17 08:20	09/25/17 17:03	1
1,1,1-Trichloroethane	<1.6		1.6	0.55	ug/Kg	☼	09/22/17 08:20	09/25/17 17:03	1
1,1,2-Trichloroethane	<1.6		1.6	0.70	ug/Kg	☼	09/22/17 08:20	09/25/17 17:03	1
Trichloroethene	<1.6		1.6	0.55	ug/Kg	☼	09/22/17 08:20	09/25/17 17:03	1
Vinyl chloride	<1.6		1.6	0.72	ug/Kg	☼	09/22/17 08:20	09/25/17 17:03	1
Xylenes, Total	<3.3		3.3	0.52	ug/Kg	☼	09/22/17 08:20	09/25/17 17:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		75 - 131	09/22/17 08:20	09/25/17 17:03	1
Dibromofluoromethane	100		75 - 126	09/22/17 08:20	09/25/17 17:03	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	09/22/17 08:20	09/25/17 17:03	1
Toluene-d8 (Surr)	96		75 - 124	09/22/17 08:20	09/25/17 17:03	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	☼	09/27/17 07:02	09/28/17 15:53	1
1,2-Dichlorobenzene	<200		200	47	ug/Kg	☼	09/27/17 07:02	09/28/17 15:53	1
1,3-Dichlorobenzene	<200		200	44	ug/Kg	☼	09/27/17 07:02	09/28/17 15:53	1
1,4-Dichlorobenzene	<200		200	50	ug/Kg	☼	09/27/17 07:02	09/28/17 15:53	1
2,2'-oxybis[1-chloropropane]	<200		200	45	ug/Kg	☼	09/27/17 07:02	09/28/17 15:53	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134432-1

Client Sample ID: FH-12(5-10)-092117

Lab Sample ID: 500-134432-9

Date Collected: 09/21/17 08:25

Matrix: Solid

Date Received: 09/21/17 16:15

Percent Solids: 82.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<390		390	89	ug/Kg	☼	09/27/17 07:02	09/28/17 15:53	1
2,4,6-Trichlorophenol	<390		390	130	ug/Kg	☼	09/27/17 07:02	09/28/17 15:53	1
2,4-Dichlorophenol	<390		390	93	ug/Kg	☼	09/27/17 07:02	09/28/17 15:53	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	09/27/17 07:02	09/28/17 15:53	1
2,4-Dinitrophenol	<790		790	690	ug/Kg	☼	09/27/17 07:02	09/28/17 15:53	1
2,4-Dinitrotoluene	<200		200	62	ug/Kg	☼	09/27/17 07:02	09/28/17 15:53	1
2,6-Dinitrotoluene	<200		200	77	ug/Kg	☼	09/27/17 07:02	09/28/17 15:53	1
2-Chloronaphthalene	<200		200	43	ug/Kg	☼	09/27/17 07:02	09/28/17 15:53	1
2-Chlorophenol	<200		200	67	ug/Kg	☼	09/27/17 07:02	09/28/17 15:53	1
2-Methylnaphthalene	<79		79	7.2	ug/Kg	☼	09/27/17 07:02	09/28/17 15:53	1
2-Methylphenol	<200		200	63	ug/Kg	☼	09/27/17 07:02	09/28/17 15:53	1
2-Nitroaniline	<200		200	52	ug/Kg	☼	09/27/17 07:02	09/28/17 15:53	1
2-Nitrophenol	<390		390	92	ug/Kg	☼	09/27/17 07:02	09/28/17 15:53	1
3 & 4 Methylphenol	<200		200	65	ug/Kg	☼	09/27/17 07:02	09/28/17 15:53	1
3,3'-Dichlorobenzidine	<200		200	55	ug/Kg	☼	09/27/17 07:02	09/28/17 15:53	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	09/27/17 07:02	09/28/17 15:53	1
4,6-Dinitro-2-methylphenol	<790		790	310	ug/Kg	☼	09/27/17 07:02	09/28/17 15:53	1
4-Bromophenyl phenyl ether	<200		200	51	ug/Kg	☼	09/27/17 07:02	09/28/17 15:53	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	09/27/17 07:02	09/28/17 15:53	1
4-Chloroaniline	<790		790	180	ug/Kg	☼	09/27/17 07:02	09/28/17 15:53	1
4-Chlorophenyl phenyl ether	<200		200	46	ug/Kg	☼	09/27/17 07:02	09/28/17 15:53	1
4-Nitroaniline	<390		390	160	ug/Kg	☼	09/27/17 07:02	09/28/17 15:53	1
4-Nitrophenol	<790		790	370	ug/Kg	☼	09/27/17 07:02	09/28/17 15:53	1
Acenaphthene	25	J	39	7.0	ug/Kg	☼	09/27/17 07:02	09/28/17 15:53	1
Acenaphthylene	7.9	J	39	5.1	ug/Kg	☼	09/27/17 07:02	09/28/17 15:53	1
Anthracene	120		39	6.5	ug/Kg	☼	09/27/17 07:02	09/28/17 15:53	1
Benzo[a]anthracene	270		39	5.2	ug/Kg	☼	09/27/17 07:02	09/28/17 15:53	1
Benzo[a]pyrene	250		39	7.5	ug/Kg	☼	09/27/17 07:02	09/28/17 15:53	1
Benzo[b]fluoranthene	300		39	8.4	ug/Kg	☼	09/27/17 07:02	09/28/17 15:53	1
Benzo[g,h,i]perylene	110		39	13	ug/Kg	☼	09/27/17 07:02	09/28/17 15:53	1
Benzo[k]fluoranthene	150		39	11	ug/Kg	☼	09/27/17 07:02	09/28/17 15:53	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	☼	09/27/17 07:02	09/28/17 15:53	1
Bis(2-chloroethyl)ether	<200		200	58	ug/Kg	☼	09/27/17 07:02	09/28/17 15:53	1
Bis(2-ethylhexyl) phthalate	<200		200	71	ug/Kg	☼	09/27/17 07:02	09/28/17 15:53	1
Butyl benzyl phthalate	<200		200	74	ug/Kg	☼	09/27/17 07:02	09/28/17 15:53	1
Carbazole	<200		200	97	ug/Kg	☼	09/27/17 07:02	09/28/17 15:53	1
Chrysene	290		39	11	ug/Kg	☼	09/27/17 07:02	09/28/17 15:53	1
Dibenz(a,h)anthracene	33	J	39	7.5	ug/Kg	☼	09/27/17 07:02	09/28/17 15:53	1
Dibenzofuran	<200		200	46	ug/Kg	☼	09/27/17 07:02	09/28/17 15:53	1
Diethyl phthalate	<200		200	66	ug/Kg	☼	09/27/17 07:02	09/28/17 15:53	1
Dimethyl phthalate	<200		200	51	ug/Kg	☼	09/27/17 07:02	09/28/17 15:53	1
Di-n-butyl phthalate	<200		200	59	ug/Kg	☼	09/27/17 07:02	09/28/17 15:53	1
Di-n-octyl phthalate	<200		200	64	ug/Kg	☼	09/27/17 07:02	09/28/17 15:53	1
Fluoranthene	670		39	7.2	ug/Kg	☼	09/27/17 07:02	09/28/17 15:53	1
Fluorene	52		39	5.5	ug/Kg	☼	09/27/17 07:02	09/28/17 15:53	1
Hexachlorobenzene	<79		79	9.0	ug/Kg	☼	09/27/17 07:02	09/28/17 15:53	1
Hexachlorobutadiene	<200		200	61	ug/Kg	☼	09/27/17 07:02	09/28/17 15:53	1
Hexachlorocyclopentadiene	<790		790	220	ug/Kg	☼	09/27/17 07:02	09/28/17 15:53	1
Hexachloroethane	<200		200	59	ug/Kg	☼	09/27/17 07:02	09/28/17 15:53	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134432-1

Client Sample ID: FH-12(5-10)-092117

Lab Sample ID: 500-134432-9

Date Collected: 09/21/17 08:25

Matrix: Solid

Date Received: 09/21/17 16:15

Percent Solids: 82.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	120		39	10	ug/Kg	☼	09/27/17 07:02	09/28/17 15:53	1
Isophorone	<200		200	44	ug/Kg	☼	09/27/17 07:02	09/28/17 15:53	1
Naphthalene	<39		39	6.0	ug/Kg	☼	09/27/17 07:02	09/28/17 15:53	1
Nitrobenzene	<39		39	9.7	ug/Kg	☼	09/27/17 07:02	09/28/17 15:53	1
N-Nitrosodi-n-propylamine	<79		79	48	ug/Kg	☼	09/27/17 07:02	09/28/17 15:53	1
N-Nitrosodiphenylamine	<200		200	46	ug/Kg	☼	09/27/17 07:02	09/28/17 15:53	1
Pentachlorophenol	<790		790	630	ug/Kg	☼	09/27/17 07:02	09/28/17 15:53	1
Phenanthrene	520		39	5.4	ug/Kg	☼	09/27/17 07:02	09/28/17 15:53	1
Phenol	<200		200	87	ug/Kg	☼	09/27/17 07:02	09/28/17 15:53	1
Pyrene	550		39	7.7	ug/Kg	☼	09/27/17 07:02	09/28/17 15:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	64		25 - 139				09/27/17 07:02	09/28/17 15:53	1
2-Fluorobiphenyl	76		44 - 121				09/27/17 07:02	09/28/17 15:53	1
2-Fluorophenol	98		46 - 133				09/27/17 07:02	09/28/17 15:53	1
Nitrobenzene-d5	76		41 - 120				09/27/17 07:02	09/28/17 15:53	1
Phenol-d5	81		46 - 125				09/27/17 07:02	09/28/17 15:53	1
Terphenyl-d14	93		35 - 160				09/27/17 07:02	09/28/17 15:53	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		09/27/17 15:41	09/28/17 13:16	1
Barium	0.39	J	0.50	0.050	mg/L		09/27/17 15:41	09/28/17 13:16	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/27/17 15:41	09/28/17 13:16	1
Cadmium	0.0022	J	0.0050	0.0020	mg/L		09/27/17 15:41	09/28/17 13:16	1
Chromium	<0.025		0.025	0.010	mg/L		09/27/17 15:41	09/28/17 13:16	1
Cobalt	0.016	J	0.025	0.010	mg/L		09/27/17 15:41	09/28/17 13:16	1
Copper	<0.025		0.025	0.010	mg/L		09/27/17 15:41	09/28/17 13:16	1
Iron	<0.40		0.40	0.20	mg/L		09/27/17 15:41	09/28/17 13:16	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/27/17 15:41	09/28/17 13:16	1
Manganese	5.5		0.025	0.010	mg/L		09/27/17 15:41	09/28/17 13:16	1
Nickel	0.023	J	0.025	0.010	mg/L		09/27/17 15:41	09/28/17 13:16	1
Selenium	<0.050		0.050	0.020	mg/L		09/27/17 15:41	09/28/17 13:16	1
Silver	<0.025		0.025	0.010	mg/L		09/27/17 15:41	09/28/17 13:16	1
Zinc	0.020	J	0.50	0.020	mg/L		09/27/17 15:41	09/28/17 13:16	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		09/27/17 15:43	09/28/17 13:17	1
Barium	<0.50		0.50	0.050	mg/L		09/27/17 15:43	09/28/17 13:17	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/27/17 15:43	09/28/17 13:17	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/27/17 15:43	09/28/17 13:17	1
Chromium	<0.025		0.025	0.010	mg/L		09/27/17 15:43	09/28/17 13:17	1
Cobalt	<0.025		0.025	0.010	mg/L		09/27/17 15:43	09/28/17 13:17	1
Copper	0.028	B	0.025	0.010	mg/L		09/27/17 15:43	09/28/17 13:17	1
Iron	4.3		0.40	0.20	mg/L		09/27/17 15:43	09/28/17 13:17	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/27/17 15:43	09/28/17 13:17	1
Manganese	0.047		0.025	0.010	mg/L		09/27/17 15:43	09/28/17 13:17	1
Nickel	<0.025		0.025	0.010	mg/L		09/27/17 15:43	09/28/17 13:17	1
Selenium	<0.050		0.050	0.020	mg/L		09/27/17 15:43	09/28/17 13:17	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134432-1

Client Sample ID: FH-12(5-10)-092117

Lab Sample ID: 500-134432-9

Date Collected: 09/21/17 08:25

Matrix: Solid

Date Received: 09/21/17 16:15

Percent Solids: 82.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		09/27/17 15:43	09/28/17 13:17	1
Zinc	0.030	J ^	0.50	0.020	mg/L		09/27/17 15:43	09/28/17 13:17	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.52	J	1.2	0.23	mg/Kg	☼	09/26/17 07:58	09/26/17 19:08	1
Arsenic	9.5		0.59	0.20	mg/Kg	☼	09/26/17 07:58	09/26/17 19:08	1
Barium	46		0.59	0.068	mg/Kg	☼	09/26/17 07:58	09/26/17 19:08	1
Beryllium	0.59		0.24	0.056	mg/Kg	☼	09/26/17 07:58	09/26/17 19:08	1
Cadmium	0.19		0.12	0.021	mg/Kg	☼	09/26/17 07:58	09/26/17 19:08	1
Calcium	63000	B	120	20	mg/Kg	☼	09/26/17 07:58	09/27/17 21:52	10
Chromium	15		0.59	0.29	mg/Kg	☼	09/26/17 07:58	09/26/17 19:08	1
Cobalt	13		0.30	0.078	mg/Kg	☼	09/26/17 07:58	09/26/17 19:08	1
Copper	26		0.59	0.17	mg/Kg	☼	09/26/17 07:58	09/26/17 19:08	1
Iron	18000	B	12	6.2	mg/Kg	☼	09/26/17 07:58	09/26/17 19:08	1
Lead	24		0.30	0.14	mg/Kg	☼	09/26/17 07:58	09/26/17 19:08	1
Magnesium	25000	B	5.9	3.0	mg/Kg	☼	09/26/17 07:58	09/26/17 19:08	1
Manganese	380	B	0.59	0.086	mg/Kg	☼	09/26/17 07:58	09/26/17 19:08	1
Nickel	30		0.59	0.17	mg/Kg	☼	09/26/17 07:58	09/26/17 19:08	1
Potassium	1500		30	11	mg/Kg	☼	09/26/17 07:58	09/26/17 19:08	1
Selenium	0.45	J	0.59	0.35	mg/Kg	☼	09/26/17 07:58	09/26/17 19:08	1
Silver	<0.30		0.30	0.077	mg/Kg	☼	09/26/17 07:58	09/26/17 19:08	1
Sodium	91		59	8.8	mg/Kg	☼	09/26/17 07:58	09/26/17 19:08	1
Thallium	<0.59		0.59	0.30	mg/Kg	☼	09/26/17 07:58	09/26/17 19:08	1
Vanadium	19		0.30	0.070	mg/Kg	☼	09/26/17 07:58	09/26/17 19:08	1
Zinc	63		1.2	0.52	mg/Kg	☼	09/26/17 07:58	09/26/17 19:08	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		09/27/17 15:10	09/28/17 08:17	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		09/27/17 15:10	09/28/17 08:57	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	47		20	6.6	ug/Kg	☼	09/27/17 13:30	09/28/17 09:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.1		0.20	0.20	SU			09/26/17 23:46	1

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134432-1

Client Sample ID: FH-12(5-10)-092117D

Lab Sample ID: 500-134432-10

Date Collected: 09/21/17 08:25

Matrix: Solid

Date Received: 09/21/17 16:15

Percent Solids: 82.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	39	*	16	6.8	ug/Kg	☼	09/22/17 08:20	09/25/17 17:28	1
Benzene	<1.6		1.6	0.40	ug/Kg	☼	09/22/17 08:20	09/25/17 17:28	1
Bromodichloromethane	<1.6		1.6	0.32	ug/Kg	☼	09/22/17 08:20	09/25/17 17:28	1
Bromoform	<1.6		1.6	0.46	ug/Kg	☼	09/22/17 08:20	09/25/17 17:28	1
Bromomethane	<3.9		3.9	1.5	ug/Kg	☼	09/22/17 08:20	09/25/17 17:28	1
Carbon disulfide	<3.9		3.9	0.81	ug/Kg	☼	09/22/17 08:20	09/25/17 17:28	1
Carbon tetrachloride	<1.6		1.6	0.45	ug/Kg	☼	09/22/17 08:20	09/25/17 17:28	1
Chlorobenzene	<1.6		1.6	0.58	ug/Kg	☼	09/22/17 08:20	09/25/17 17:28	1
Chloroethane	<3.9		3.9	1.2	ug/Kg	☼	09/22/17 08:20	09/25/17 17:28	1
Chloroform	<1.6		1.6	0.54	ug/Kg	☼	09/22/17 08:20	09/25/17 17:28	1
Chloromethane	<3.9		3.9	1.6	ug/Kg	☼	09/22/17 08:20	09/25/17 17:28	1
cis-1,2-Dichloroethene	<1.6		1.6	0.44	ug/Kg	☼	09/22/17 08:20	09/25/17 17:28	1
cis-1,3-Dichloropropene	<1.6		1.6	0.47	ug/Kg	☼	09/22/17 08:20	09/25/17 17:28	1
Dibromochloromethane	<1.6		1.6	0.51	ug/Kg	☼	09/22/17 08:20	09/25/17 17:28	1
1,1-Dichloroethane	<1.6		1.6	0.54	ug/Kg	☼	09/22/17 08:20	09/25/17 17:28	1
1,2-Dichloroethane	<3.9		3.9	1.2	ug/Kg	☼	09/22/17 08:20	09/25/17 17:28	1
1,1-Dichloroethene	<1.6		1.6	0.54	ug/Kg	☼	09/22/17 08:20	09/25/17 17:28	1
1,2-Dichloropropane	<1.6		1.6	0.40	ug/Kg	☼	09/22/17 08:20	09/25/17 17:28	1
1,3-Dichloropropane, Total	<1.6		1.6	0.55	ug/Kg	☼	09/22/17 08:20	09/25/17 17:28	1
Ethylbenzene	<1.6		1.6	0.75	ug/Kg	☼	09/22/17 08:20	09/25/17 17:28	1
2-Hexanone	<3.9		3.9	1.2	ug/Kg	☼	09/22/17 08:20	09/25/17 17:28	1
Methylene Chloride	<3.9		3.9	1.5	ug/Kg	☼	09/22/17 08:20	09/25/17 17:28	1
Methyl Ethyl Ketone	<3.9		3.9	1.7	ug/Kg	☼	09/22/17 08:20	09/25/17 17:28	1
methyl isobutyl ketone	<3.9		3.9	1.2	ug/Kg	☼	09/22/17 08:20	09/25/17 17:28	1
Methyl tert-butyl ether	<1.6		1.6	0.46	ug/Kg	☼	09/22/17 08:20	09/25/17 17:28	1
Styrene	<1.6		1.6	0.47	ug/Kg	☼	09/22/17 08:20	09/25/17 17:28	1
1,1,2,2-Tetrachloroethane	<1.6		1.6	0.50	ug/Kg	☼	09/22/17 08:20	09/25/17 17:28	1
Tetrachloroethene	<1.6		1.6	0.53	ug/Kg	☼	09/22/17 08:20	09/25/17 17:28	1
Toluene	<1.6		1.6	0.40	ug/Kg	☼	09/22/17 08:20	09/25/17 17:28	1
trans-1,2-Dichloroethene	<1.6		1.6	0.69	ug/Kg	☼	09/22/17 08:20	09/25/17 17:28	1
trans-1,3-Dichloropropene	<1.6		1.6	0.55	ug/Kg	☼	09/22/17 08:20	09/25/17 17:28	1
1,1,1-Trichloroethane	<1.6		1.6	0.52	ug/Kg	☼	09/22/17 08:20	09/25/17 17:28	1
1,1,2-Trichloroethane	<1.6		1.6	0.67	ug/Kg	☼	09/22/17 08:20	09/25/17 17:28	1
Trichloroethene	<1.6		1.6	0.53	ug/Kg	☼	09/22/17 08:20	09/25/17 17:28	1
Vinyl chloride	<1.6		1.6	0.69	ug/Kg	☼	09/22/17 08:20	09/25/17 17:28	1
Xylenes, Total	<3.1		3.1	0.50	ug/Kg	☼	09/22/17 08:20	09/25/17 17:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		75 - 131	09/22/17 08:20	09/25/17 17:28	1
Dibromofluoromethane	102		75 - 126	09/22/17 08:20	09/25/17 17:28	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134	09/22/17 08:20	09/25/17 17:28	1
Toluene-d8 (Surr)	97		75 - 124	09/22/17 08:20	09/25/17 17:28	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	☼	09/27/17 07:02	09/28/17 18:32	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	09/27/17 07:02	09/28/17 18:32	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	09/27/17 07:02	09/28/17 18:32	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	09/27/17 07:02	09/28/17 18:32	1
2,2'-oxybis[1-chloropropane]	<190		190	45	ug/Kg	☼	09/27/17 07:02	09/28/17 18:32	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134432-1

Client Sample ID: FH-12(5-10)-092117D

Lab Sample ID: 500-134432-10

Date Collected: 09/21/17 08:25

Matrix: Solid

Date Received: 09/21/17 16:15

Percent Solids: 82.6

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	☼	09/27/17 07:02	09/28/17 18:32	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	09/27/17 07:02	09/28/17 18:32	1
2,4-Dichlorophenol	<380		380	92	ug/Kg	☼	09/27/17 07:02	09/28/17 18:32	1
2,4-Dimethylphenol	<380		380	150	ug/Kg	☼	09/27/17 07:02	09/28/17 18:32	1
2,4-Dinitrophenol	<780		780	680	ug/Kg	☼	09/27/17 07:02	09/28/17 18:32	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	09/27/17 07:02	09/28/17 18:32	1
2,6-Dinitrotoluene	<190		190	76	ug/Kg	☼	09/27/17 07:02	09/28/17 18:32	1
2-Chloronaphthalene	<190		190	43	ug/Kg	☼	09/27/17 07:02	09/28/17 18:32	1
2-Chlorophenol	<190		190	66	ug/Kg	☼	09/27/17 07:02	09/28/17 18:32	1
2-Methylnaphthalene	18	J	78	7.1	ug/Kg	☼	09/27/17 07:02	09/28/17 18:32	1
2-Methylphenol	<190		190	62	ug/Kg	☼	09/27/17 07:02	09/28/17 18:32	1
2-Nitroaniline	<190		190	52	ug/Kg	☼	09/27/17 07:02	09/28/17 18:32	1
2-Nitrophenol	<380		380	91	ug/Kg	☼	09/27/17 07:02	09/28/17 18:32	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	☼	09/27/17 07:02	09/28/17 18:32	1
3,3'-Dichlorobenzidine	<190		190	54	ug/Kg	☼	09/27/17 07:02	09/28/17 18:32	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	09/27/17 07:02	09/28/17 18:32	1
4,6-Dinitro-2-methylphenol	<780		780	310	ug/Kg	☼	09/27/17 07:02	09/28/17 18:32	1
4-Bromophenyl phenyl ether	<190		190	51	ug/Kg	☼	09/27/17 07:02	09/28/17 18:32	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	09/27/17 07:02	09/28/17 18:32	1
4-Chloroaniline	<780		780	180	ug/Kg	☼	09/27/17 07:02	09/28/17 18:32	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	09/27/17 07:02	09/28/17 18:32	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	09/27/17 07:02	09/28/17 18:32	1
4-Nitrophenol	<780		780	370	ug/Kg	☼	09/27/17 07:02	09/28/17 18:32	1
Acenaphthene	51		38	6.9	ug/Kg	☼	09/27/17 07:02	09/28/17 18:32	1
Acenaphthylene	15	J	38	5.1	ug/Kg	☼	09/27/17 07:02	09/28/17 18:32	1
Anthracene	240		38	6.4	ug/Kg	☼	09/27/17 07:02	09/28/17 18:32	1
Benzo[a]anthracene	590		38	5.2	ug/Kg	☼	09/27/17 07:02	09/28/17 18:32	1
Benzo[a]pyrene	530		38	7.5	ug/Kg	☼	09/27/17 07:02	09/28/17 18:32	1
Benzo[b]fluoranthene	740		38	8.3	ug/Kg	☼	09/27/17 07:02	09/28/17 18:32	1
Benzo[g,h,i]perylene	200		38	12	ug/Kg	☼	09/27/17 07:02	09/28/17 18:32	1
Benzo[k]fluoranthene	290		38	11	ug/Kg	☼	09/27/17 07:02	09/28/17 18:32	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	09/27/17 07:02	09/28/17 18:32	1
Bis(2-chloroethyl)ether	<190		190	58	ug/Kg	☼	09/27/17 07:02	09/28/17 18:32	1
Bis(2-ethylhexyl) phthalate	<190		190	70	ug/Kg	☼	09/27/17 07:02	09/28/17 18:32	1
Butyl benzyl phthalate	<190		190	73	ug/Kg	☼	09/27/17 07:02	09/28/17 18:32	1
Carbazole	100	J	190	96	ug/Kg	☼	09/27/17 07:02	09/28/17 18:32	1
Chrysene	630		38	11	ug/Kg	☼	09/27/17 07:02	09/28/17 18:32	1
Dibenz(a,h)anthracene	65		38	7.5	ug/Kg	☼	09/27/17 07:02	09/28/17 18:32	1
Dibenzofuran	53	J	190	45	ug/Kg	☼	09/27/17 07:02	09/28/17 18:32	1
Diethyl phthalate	<190		190	65	ug/Kg	☼	09/27/17 07:02	09/28/17 18:32	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	09/27/17 07:02	09/28/17 18:32	1
Di-n-butyl phthalate	<190		190	59	ug/Kg	☼	09/27/17 07:02	09/28/17 18:32	1
Di-n-octyl phthalate	<190		190	63	ug/Kg	☼	09/27/17 07:02	09/28/17 18:32	1
Fluoranthene	1400		38	7.2	ug/Kg	☼	09/27/17 07:02	09/28/17 18:32	1
Fluorene	100		38	5.4	ug/Kg	☼	09/27/17 07:02	09/28/17 18:32	1
Hexachlorobenzene	<78		78	8.9	ug/Kg	☼	09/27/17 07:02	09/28/17 18:32	1
Hexachlorobutadiene	<190		190	61	ug/Kg	☼	09/27/17 07:02	09/28/17 18:32	1
Hexachlorocyclopentadiene	<780		780	220	ug/Kg	☼	09/27/17 07:02	09/28/17 18:32	1
Hexachloroethane	<190		190	59	ug/Kg	☼	09/27/17 07:02	09/28/17 18:32	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134432-1

Client Sample ID: FH-12(5-10)-092117D

Lab Sample ID: 500-134432-10

Date Collected: 09/21/17 08:25

Matrix: Solid

Date Received: 09/21/17 16:15

Percent Solids: 82.6

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	210		38	10	ug/Kg	☼	09/27/17 07:02	09/28/17 18:32	1
Isophorone	<190		190	43	ug/Kg	☼	09/27/17 07:02	09/28/17 18:32	1
Naphthalene	15	J	38	5.9	ug/Kg	☼	09/27/17 07:02	09/28/17 18:32	1
Nitrobenzene	<38		38	9.6	ug/Kg	☼	09/27/17 07:02	09/28/17 18:32	1
N-Nitrosodi-n-propylamine	<78		78	47	ug/Kg	☼	09/27/17 07:02	09/28/17 18:32	1
N-Nitrosodiphenylamine	<190		190	46	ug/Kg	☼	09/27/17 07:02	09/28/17 18:32	1
Pentachlorophenol	<780		780	620	ug/Kg	☼	09/27/17 07:02	09/28/17 18:32	1
Phenanthrene	1100		38	5.4	ug/Kg	☼	09/27/17 07:02	09/28/17 18:32	1
Phenol	<190		190	86	ug/Kg	☼	09/27/17 07:02	09/28/17 18:32	1
Pyrene	1200		38	7.7	ug/Kg	☼	09/27/17 07:02	09/28/17 18:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	67		25 - 139				09/27/17 07:02	09/28/17 18:32	1
2-Fluorobiphenyl	86		44 - 121				09/27/17 07:02	09/28/17 18:32	1
2-Fluorophenol	108		46 - 133				09/27/17 07:02	09/28/17 18:32	1
Nitrobenzene-d5	84		41 - 120				09/27/17 07:02	09/28/17 18:32	1
Phenol-d5	98		46 - 125				09/27/17 07:02	09/28/17 18:32	1
Terphenyl-d14	93		35 - 160				09/27/17 07:02	09/28/17 18:32	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		09/27/17 15:41	09/28/17 13:20	1
Barium	0.40	J	0.50	0.050	mg/L		09/27/17 15:41	09/28/17 13:20	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/27/17 15:41	09/28/17 13:20	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/27/17 15:41	09/28/17 13:20	1
Chromium	<0.025		0.025	0.010	mg/L		09/27/17 15:41	09/28/17 13:20	1
Cobalt	0.020	J	0.025	0.010	mg/L		09/27/17 15:41	09/28/17 13:20	1
Copper	<0.025		0.025	0.010	mg/L		09/27/17 15:41	09/28/17 13:20	1
Iron	<0.40		0.40	0.20	mg/L		09/27/17 15:41	09/28/17 13:20	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/27/17 15:41	09/28/17 13:20	1
Manganese	6.3		0.025	0.010	mg/L		09/27/17 15:41	09/28/17 13:20	1
Nickel	0.026		0.025	0.010	mg/L		09/27/17 15:41	09/28/17 13:20	1
Selenium	<0.050		0.050	0.020	mg/L		09/27/17 15:41	09/28/17 13:20	1
Silver	<0.025		0.025	0.010	mg/L		09/27/17 15:41	09/28/17 13:20	1
Zinc	<0.50		0.50	0.020	mg/L		09/27/17 15:41	09/28/17 13:20	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		09/27/17 15:43	09/28/17 13:21	1
Barium	<0.50		0.50	0.050	mg/L		09/27/17 15:43	09/28/17 13:21	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/27/17 15:43	09/28/17 13:21	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/27/17 15:43	09/28/17 13:21	1
Chromium	<0.025		0.025	0.010	mg/L		09/27/17 15:43	09/28/17 13:21	1
Cobalt	<0.025		0.025	0.010	mg/L		09/27/17 15:43	09/28/17 13:21	1
Copper	0.011	J B	0.025	0.010	mg/L		09/27/17 15:43	09/28/17 13:21	1
Iron	4.7		0.40	0.20	mg/L		09/27/17 15:43	09/28/17 13:21	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/27/17 15:43	09/28/17 13:21	1
Manganese	0.087		0.025	0.010	mg/L		09/27/17 15:43	09/28/17 13:21	1
Nickel	<0.025		0.025	0.010	mg/L		09/27/17 15:43	09/28/17 13:21	1
Selenium	<0.050		0.050	0.020	mg/L		09/27/17 15:43	09/28/17 13:21	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134432-1

Client Sample ID: FH-12(5-10)-092117D

Lab Sample ID: 500-134432-10

Date Collected: 09/21/17 08:25

Matrix: Solid

Date Received: 09/21/17 16:15

Percent Solids: 82.6

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		09/27/17 15:43	09/28/17 13:21	1
Zinc	<0.50	^	0.50	0.020	mg/L		09/27/17 15:43	09/28/17 13:21	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.33	J	1.2	0.23	mg/Kg	☼	09/26/17 07:58	09/26/17 19:11	1
Arsenic	8.5		0.60	0.21	mg/Kg	☼	09/26/17 07:58	09/26/17 19:11	1
Barium	47		0.60	0.069	mg/Kg	☼	09/26/17 07:58	09/26/17 19:11	1
Beryllium	0.57		0.24	0.056	mg/Kg	☼	09/26/17 07:58	09/26/17 19:11	1
Cadmium	0.20		0.12	0.022	mg/Kg	☼	09/26/17 07:58	09/26/17 19:11	1
Calcium	28000	B	12	2.0	mg/Kg	☼	09/26/17 07:58	09/26/17 19:11	1
Chromium	15		0.60	0.30	mg/Kg	☼	09/26/17 07:58	09/26/17 19:11	1
Cobalt	13		0.30	0.079	mg/Kg	☼	09/26/17 07:58	09/26/17 19:11	1
Copper	26		0.60	0.17	mg/Kg	☼	09/26/17 07:58	09/26/17 19:11	1
Iron	19000	B	12	6.3	mg/Kg	☼	09/26/17 07:58	09/26/17 19:11	1
Lead	24		0.30	0.14	mg/Kg	☼	09/26/17 07:58	09/26/17 19:11	1
Magnesium	16000	B	6.0	3.0	mg/Kg	☼	09/26/17 07:58	09/26/17 19:11	1
Manganese	410	B	0.60	0.088	mg/Kg	☼	09/26/17 07:58	09/26/17 19:11	1
Nickel	31		0.60	0.18	mg/Kg	☼	09/26/17 07:58	09/26/17 19:11	1
Potassium	1500		30	11	mg/Kg	☼	09/26/17 07:58	09/26/17 19:11	1
Selenium	<0.60		0.60	0.35	mg/Kg	☼	09/26/17 07:58	09/26/17 19:11	1
Silver	<0.30		0.30	0.078	mg/Kg	☼	09/26/17 07:58	09/26/17 19:11	1
Sodium	85		60	8.9	mg/Kg	☼	09/26/17 07:58	09/26/17 19:11	1
Thallium	<0.60		0.60	0.30	mg/Kg	☼	09/26/17 07:58	09/26/17 19:11	1
Vanadium	19		0.30	0.071	mg/Kg	☼	09/26/17 07:58	09/26/17 19:11	1
Zinc	63		1.2	0.53	mg/Kg	☼	09/26/17 07:58	09/26/17 19:11	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		09/27/17 15:10	09/28/17 08:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		09/27/17 15:10	09/28/17 08:58	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	39		20	6.6	ug/Kg	☼	09/27/17 13:30	09/28/17 09:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.1		0.20	0.20	SU			09/27/17 00:07	1

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134432-1

Client Sample ID: FH-15(0-5)-092117

Lab Sample ID: 500-134432-16

Date Collected: 09/21/17 09:35

Matrix: Solid

Date Received: 09/21/17 16:15

Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	50	*	17	7.5	ug/Kg	☼	09/22/17 08:20	09/25/17 19:59	1
Benzene	<1.7		1.7	0.44	ug/Kg	☼	09/22/17 08:20	09/25/17 19:59	1
Bromodichloromethane	<1.7		1.7	0.35	ug/Kg	☼	09/22/17 08:20	09/25/17 19:59	1
Bromoform	<1.7		1.7	0.50	ug/Kg	☼	09/22/17 08:20	09/25/17 19:59	1
Bromomethane	<4.3		4.3	1.6	ug/Kg	☼	09/22/17 08:20	09/25/17 19:59	1
Carbon disulfide	<4.3		4.3	0.89	ug/Kg	☼	09/22/17 08:20	09/25/17 19:59	1
Carbon tetrachloride	<1.7		1.7	0.50	ug/Kg	☼	09/22/17 08:20	09/25/17 19:59	1
Chlorobenzene	<1.7		1.7	0.63	ug/Kg	☼	09/22/17 08:20	09/25/17 19:59	1
Chloroethane	<4.3		4.3	1.3	ug/Kg	☼	09/22/17 08:20	09/25/17 19:59	1
Chloroform	<1.7		1.7	0.60	ug/Kg	☼	09/22/17 08:20	09/25/17 19:59	1
Chloromethane	<4.3		4.3	1.7	ug/Kg	☼	09/22/17 08:20	09/25/17 19:59	1
cis-1,2-Dichloroethene	<1.7		1.7	0.48	ug/Kg	☼	09/22/17 08:20	09/25/17 19:59	1
cis-1,3-Dichloropropene	<1.7		1.7	0.52	ug/Kg	☼	09/22/17 08:20	09/25/17 19:59	1
Dibromochloromethane	<1.7		1.7	0.56	ug/Kg	☼	09/22/17 08:20	09/25/17 19:59	1
1,1-Dichloroethane	<1.7		1.7	0.59	ug/Kg	☼	09/22/17 08:20	09/25/17 19:59	1
1,2-Dichloroethane	<4.3		4.3	1.3	ug/Kg	☼	09/22/17 08:20	09/25/17 19:59	1
1,1-Dichloroethene	<1.7		1.7	0.59	ug/Kg	☼	09/22/17 08:20	09/25/17 19:59	1
1,2-Dichloropropane	<1.7		1.7	0.44	ug/Kg	☼	09/22/17 08:20	09/25/17 19:59	1
1,3-Dichloropropene, Total	<1.7		1.7	0.60	ug/Kg	☼	09/22/17 08:20	09/25/17 19:59	1
Ethylbenzene	<1.7		1.7	0.82	ug/Kg	☼	09/22/17 08:20	09/25/17 19:59	1
2-Hexanone	<4.3		4.3	1.3	ug/Kg	☼	09/22/17 08:20	09/25/17 19:59	1
Methylene Chloride	<4.3		4.3	1.7	ug/Kg	☼	09/22/17 08:20	09/25/17 19:59	1
Methyl Ethyl Ketone	<4.3		4.3	1.9	ug/Kg	☼	09/22/17 08:20	09/25/17 19:59	1
methyl isobutyl ketone	<4.3		4.3	1.3	ug/Kg	☼	09/22/17 08:20	09/25/17 19:59	1
Methyl tert-butyl ether	<1.7		1.7	0.50	ug/Kg	☼	09/22/17 08:20	09/25/17 19:59	1
Styrene	<1.7		1.7	0.52	ug/Kg	☼	09/22/17 08:20	09/25/17 19:59	1
1,1,2,2-Tetrachloroethane	<1.7		1.7	0.55	ug/Kg	☼	09/22/17 08:20	09/25/17 19:59	1
Tetrachloroethene	<1.7		1.7	0.58	ug/Kg	☼	09/22/17 08:20	09/25/17 19:59	1
Toluene	<1.7		1.7	0.43	ug/Kg	☼	09/22/17 08:20	09/25/17 19:59	1
trans-1,2-Dichloroethene	<1.7		1.7	0.76	ug/Kg	☼	09/22/17 08:20	09/25/17 19:59	1
trans-1,3-Dichloropropene	<1.7		1.7	0.60	ug/Kg	☼	09/22/17 08:20	09/25/17 19:59	1
1,1,1-Trichloroethane	<1.7		1.7	0.58	ug/Kg	☼	09/22/17 08:20	09/25/17 19:59	1
1,1,2-Trichloroethane	<1.7		1.7	0.74	ug/Kg	☼	09/22/17 08:20	09/25/17 19:59	1
Trichloroethene	<1.7		1.7	0.58	ug/Kg	☼	09/22/17 08:20	09/25/17 19:59	1
Vinyl chloride	<1.7		1.7	0.76	ug/Kg	☼	09/22/17 08:20	09/25/17 19:59	1
Xylenes, Total	<3.4		3.4	0.55	ug/Kg	☼	09/22/17 08:20	09/25/17 19:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		75 - 131	09/22/17 08:20	09/25/17 19:59	1
Dibromofluoromethane	104		75 - 126	09/22/17 08:20	09/25/17 19:59	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	09/22/17 08:20	09/25/17 19:59	1
Toluene-d8 (Surr)	82		75 - 124	09/22/17 08:20	09/25/17 19:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	41	ug/Kg	☼	09/27/17 07:02	09/28/17 11:54	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	09/27/17 07:02	09/28/17 11:54	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	09/27/17 07:02	09/28/17 11:54	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	09/27/17 07:02	09/28/17 11:54	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	09/27/17 07:02	09/28/17 11:54	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134432-1

Client Sample ID: FH-15(0-5)-092117

Lab Sample ID: 500-134432-16

Date Collected: 09/21/17 09:35

Matrix: Solid

Date Received: 09/21/17 16:15

Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	86	ug/Kg	☼	09/27/17 07:02	09/28/17 11:54	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	09/27/17 07:02	09/28/17 11:54	1
2,4-Dichlorophenol	<370		370	90	ug/Kg	☼	09/27/17 07:02	09/28/17 11:54	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	09/27/17 07:02	09/28/17 11:54	1
2,4-Dinitrophenol	<760		760	660	ug/Kg	☼	09/27/17 07:02	09/28/17 11:54	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	09/27/17 07:02	09/28/17 11:54	1
2,6-Dinitrotoluene	<190		190	74	ug/Kg	☼	09/27/17 07:02	09/28/17 11:54	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	09/27/17 07:02	09/28/17 11:54	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	09/27/17 07:02	09/28/17 11:54	1
2-Methylnaphthalene	<76		76	6.9	ug/Kg	☼	09/27/17 07:02	09/28/17 11:54	1
2-Methylphenol	<190		190	60	ug/Kg	☼	09/27/17 07:02	09/28/17 11:54	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	09/27/17 07:02	09/28/17 11:54	1
2-Nitrophenol	<370		370	89	ug/Kg	☼	09/27/17 07:02	09/28/17 11:54	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	09/27/17 07:02	09/28/17 11:54	1
3,3'-Dichlorobenzidine	<190		190	53	ug/Kg	☼	09/27/17 07:02	09/28/17 11:54	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	09/27/17 07:02	09/28/17 11:54	1
4,6-Dinitro-2-methylphenol	<760		760	300	ug/Kg	☼	09/27/17 07:02	09/28/17 11:54	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	09/27/17 07:02	09/28/17 11:54	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	09/27/17 07:02	09/28/17 11:54	1
4-Chloroaniline	<760		760	180	ug/Kg	☼	09/27/17 07:02	09/28/17 11:54	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	09/27/17 07:02	09/28/17 11:54	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	09/27/17 07:02	09/28/17 11:54	1
4-Nitrophenol	<760		760	360	ug/Kg	☼	09/27/17 07:02	09/28/17 11:54	1
Acenaphthene	<37		37	6.8	ug/Kg	☼	09/27/17 07:02	09/28/17 11:54	1
Acenaphthylene	<37		37	5.0	ug/Kg	☼	09/27/17 07:02	09/28/17 11:54	1
Anthracene	<37		37	6.3	ug/Kg	☼	09/27/17 07:02	09/28/17 11:54	1
Benzo[a]anthracene	<37		37	5.1	ug/Kg	☼	09/27/17 07:02	09/28/17 11:54	1
Benzo[a]pyrene	8.7 J		37	7.3	ug/Kg	☼	09/27/17 07:02	09/28/17 11:54	1
Benzo[b]fluoranthene	11 J		37	8.1	ug/Kg	☼	09/27/17 07:02	09/28/17 11:54	1
Benzo[g,h,i]perylene	<37		37	12	ug/Kg	☼	09/27/17 07:02	09/28/17 11:54	1
Benzo[k]fluoranthene	<37		37	11	ug/Kg	☼	09/27/17 07:02	09/28/17 11:54	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	09/27/17 07:02	09/28/17 11:54	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	09/27/17 07:02	09/28/17 11:54	1
Bis(2-ethylhexyl) phthalate	<190		190	69	ug/Kg	☼	09/27/17 07:02	09/28/17 11:54	1
Butyl benzyl phthalate	<190		190	72	ug/Kg	☼	09/27/17 07:02	09/28/17 11:54	1
Carbazole	<190		190	94	ug/Kg	☼	09/27/17 07:02	09/28/17 11:54	1
Chrysene	<37		37	10	ug/Kg	☼	09/27/17 07:02	09/28/17 11:54	1
Dibenz(a,h)anthracene	<37		37	7.3	ug/Kg	☼	09/27/17 07:02	09/28/17 11:54	1
Dibenzofuran	<190		190	44	ug/Kg	☼	09/27/17 07:02	09/28/17 11:54	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	09/27/17 07:02	09/28/17 11:54	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	09/27/17 07:02	09/28/17 11:54	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	09/27/17 07:02	09/28/17 11:54	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	09/27/17 07:02	09/28/17 11:54	1
Fluoranthene	13 J		37	7.0	ug/Kg	☼	09/27/17 07:02	09/28/17 11:54	1
Fluorene	<37		37	5.3	ug/Kg	☼	09/27/17 07:02	09/28/17 11:54	1
Hexachlorobenzene	<76		76	8.7	ug/Kg	☼	09/27/17 07:02	09/28/17 11:54	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	09/27/17 07:02	09/28/17 11:54	1
Hexachlorocyclopentadiene	<760		760	220	ug/Kg	☼	09/27/17 07:02	09/28/17 11:54	1
Hexachloroethane	<190		190	57	ug/Kg	☼	09/27/17 07:02	09/28/17 11:54	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134432-1

Client Sample ID: FH-15(0-5)-092117

Lab Sample ID: 500-134432-16

Date Collected: 09/21/17 09:35

Matrix: Solid

Date Received: 09/21/17 16:15

Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<37		37	9.8	ug/Kg	☼	09/27/17 07:02	09/28/17 11:54	1
Isophorone	<190		190	42	ug/Kg	☼	09/27/17 07:02	09/28/17 11:54	1
Naphthalene	<37		37	5.8	ug/Kg	☼	09/27/17 07:02	09/28/17 11:54	1
Nitrobenzene	<37		37	9.4	ug/Kg	☼	09/27/17 07:02	09/28/17 11:54	1
N-Nitrosodi-n-propylamine	<76		76	46	ug/Kg	☼	09/27/17 07:02	09/28/17 11:54	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	09/27/17 07:02	09/28/17 11:54	1
Pentachlorophenol	<760		760	600	ug/Kg	☼	09/27/17 07:02	09/28/17 11:54	1
Phenanthrene	7.8	J	37	5.3	ug/Kg	☼	09/27/17 07:02	09/28/17 11:54	1
Phenol	<190		190	84	ug/Kg	☼	09/27/17 07:02	09/28/17 11:54	1
Pyrene	<37		37	7.5	ug/Kg	☼	09/27/17 07:02	09/28/17 11:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	76		25 - 139				09/27/17 07:02	09/28/17 11:54	1
2-Fluorobiphenyl	84		44 - 121				09/27/17 07:02	09/28/17 11:54	1
2-Fluorophenol	112		46 - 133				09/27/17 07:02	09/28/17 11:54	1
Nitrobenzene-d5	94		41 - 120				09/27/17 07:02	09/28/17 11:54	1
Phenol-d5	102		46 - 125				09/27/17 07:02	09/28/17 11:54	1
Terphenyl-d14	91		35 - 160				09/27/17 07:02	09/28/17 11:54	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		09/27/17 15:41	09/28/17 13:53	1
Barium	0.28	J	0.50	0.050	mg/L		09/27/17 15:41	09/28/17 13:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/27/17 15:41	09/28/17 13:53	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/27/17 15:41	09/28/17 13:53	1
Chromium	<0.025		0.025	0.010	mg/L		09/27/17 15:41	09/28/17 13:53	1
Cobalt	0.018	J	0.025	0.010	mg/L		09/27/17 15:41	09/28/17 13:53	1
Copper	<0.025		0.025	0.010	mg/L		09/27/17 15:41	09/28/17 13:53	1
Iron	<0.40		0.40	0.20	mg/L		09/27/17 15:41	09/28/17 13:53	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/27/17 15:41	09/28/17 13:53	1
Manganese	4.0		0.025	0.010	mg/L		09/27/17 15:41	09/28/17 13:53	1
Nickel	0.026		0.025	0.010	mg/L		09/27/17 15:41	09/28/17 13:53	1
Selenium	<0.050		0.050	0.020	mg/L		09/27/17 15:41	09/28/17 13:53	1
Silver	<0.025		0.025	0.010	mg/L		09/27/17 15:41	09/28/17 13:53	1
Zinc	<0.50		0.50	0.020	mg/L		09/27/17 15:41	09/28/17 13:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/27/17 15:43	09/28/17 13:54	1
Barium	<0.50		0.50	0.050	mg/L		09/27/17 15:43	09/28/17 13:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/27/17 15:43	09/28/17 13:54	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/27/17 15:43	09/28/17 13:54	1
Chromium	0.012	J	0.025	0.010	mg/L		09/27/17 15:43	09/28/17 13:54	1
Cobalt	<0.025		0.025	0.010	mg/L		09/27/17 15:43	09/28/17 13:54	1
Copper	0.015	J B	0.025	0.010	mg/L		09/27/17 15:43	09/28/17 13:54	1
Iron	10		0.40	0.20	mg/L		09/27/17 15:43	09/28/17 13:54	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/27/17 15:43	09/28/17 13:54	1
Manganese	0.060		0.025	0.010	mg/L		09/27/17 15:43	09/28/17 13:54	1
Nickel	0.011	J	0.025	0.010	mg/L		09/27/17 15:43	09/28/17 13:54	1
Selenium	<0.050		0.050	0.020	mg/L		09/27/17 15:43	09/28/17 13:54	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134432-1

Client Sample ID: FH-15(0-5)-092117

Lab Sample ID: 500-134432-16

Date Collected: 09/21/17 09:35

Matrix: Solid

Date Received: 09/21/17 16:15

Percent Solids: 86.2

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		09/27/17 15:43	09/28/17 13:54	1
Zinc	0.024	J	0.50	0.020	mg/L		09/27/17 15:43	09/28/17 13:54	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	☼	09/26/17 07:58	09/26/17 19:43	1
Arsenic	9.6		0.56	0.19	mg/Kg	☼	09/26/17 07:58	09/26/17 19:43	1
Barium	36		0.56	0.064	mg/Kg	☼	09/26/17 07:58	09/26/17 19:43	1
Beryllium	0.55		0.23	0.053	mg/Kg	☼	09/26/17 07:58	09/26/17 19:43	1
Cadmium	0.17		0.11	0.020	mg/Kg	☼	09/26/17 07:58	09/26/17 19:43	1
Calcium	28000	B	11	1.9	mg/Kg	☼	09/26/17 07:58	09/26/17 19:43	1
Chromium	14		0.56	0.28	mg/Kg	☼	09/26/17 07:58	09/26/17 19:43	1
Cobalt	13		0.28	0.074	mg/Kg	☼	09/26/17 07:58	09/26/17 19:43	1
Copper	30		0.56	0.16	mg/Kg	☼	09/26/17 07:58	09/26/17 19:43	1
Iron	20000	B	11	5.9	mg/Kg	☼	09/26/17 07:58	09/26/17 19:43	1
Lead	19		0.28	0.13	mg/Kg	☼	09/26/17 07:58	09/26/17 19:43	1
Magnesium	19000	B	5.6	2.8	mg/Kg	☼	09/26/17 07:58	09/26/17 19:43	1
Manganese	410	B	0.56	0.082	mg/Kg	☼	09/26/17 07:58	09/26/17 19:43	1
Nickel	31		0.56	0.16	mg/Kg	☼	09/26/17 07:58	09/26/17 19:43	1
Potassium	1500		28	10	mg/Kg	☼	09/26/17 07:58	09/26/17 19:43	1
Selenium	<0.56		0.56	0.33	mg/Kg	☼	09/26/17 07:58	09/26/17 19:43	1
Silver	<0.28		0.28	0.073	mg/Kg	☼	09/26/17 07:58	09/26/17 19:43	1
Sodium	73		56	8.3	mg/Kg	☼	09/26/17 07:58	09/26/17 19:43	1
Thallium	0.36	J	0.56	0.28	mg/Kg	☼	09/26/17 07:58	09/26/17 19:43	1
Vanadium	18		0.28	0.067	mg/Kg	☼	09/26/17 07:58	09/26/17 19:43	1
Zinc	60		1.1	0.49	mg/Kg	☼	09/26/17 07:58	09/26/17 19:43	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		09/27/17 15:10	09/28/17 08:30	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		09/27/17 15:10	09/28/17 09:13	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	40		18	6.0	ug/Kg	☼	09/27/17 13:30	09/28/17 09:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.9		0.20	0.20	SU			09/27/17 02:08	1

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134432-1

Client Sample ID: FH-15(5-10)-092117

Lab Sample ID: 500-134432-17

Date Collected: 09/21/17 09:42

Matrix: Solid

Date Received: 09/21/17 16:15

Percent Solids: 80.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	31	*	18	7.7	ug/Kg	☼	09/22/17 08:20	09/25/17 20:23	1
Benzene	<1.8		1.8	0.45	ug/Kg	☼	09/22/17 08:20	09/25/17 20:23	1
Bromodichloromethane	<1.8		1.8	0.36	ug/Kg	☼	09/22/17 08:20	09/25/17 20:23	1
Bromoform	<1.8		1.8	0.51	ug/Kg	☼	09/22/17 08:20	09/25/17 20:23	1
Bromomethane	<4.4		4.4	1.7	ug/Kg	☼	09/22/17 08:20	09/25/17 20:23	1
Carbon disulfide	<4.4		4.4	0.91	ug/Kg	☼	09/22/17 08:20	09/25/17 20:23	1
Carbon tetrachloride	<1.8		1.8	0.51	ug/Kg	☼	09/22/17 08:20	09/25/17 20:23	1
Chlorobenzene	<1.8		1.8	0.65	ug/Kg	☼	09/22/17 08:20	09/25/17 20:23	1
Chloroethane	<4.4		4.4	1.3	ug/Kg	☼	09/22/17 08:20	09/25/17 20:23	1
Chloroform	<1.8		1.8	0.61	ug/Kg	☼	09/22/17 08:20	09/25/17 20:23	1
Chloromethane	<4.4		4.4	1.8	ug/Kg	☼	09/22/17 08:20	09/25/17 20:23	1
cis-1,2-Dichloroethene	<1.8		1.8	0.49	ug/Kg	☼	09/22/17 08:20	09/25/17 20:23	1
cis-1,3-Dichloropropene	<1.8		1.8	0.53	ug/Kg	☼	09/22/17 08:20	09/25/17 20:23	1
Dibromochloromethane	<1.8		1.8	0.57	ug/Kg	☼	09/22/17 08:20	09/25/17 20:23	1
1,1-Dichloroethane	<1.8		1.8	0.60	ug/Kg	☼	09/22/17 08:20	09/25/17 20:23	1
1,2-Dichloroethane	<4.4		4.4	1.4	ug/Kg	☼	09/22/17 08:20	09/25/17 20:23	1
1,1-Dichloroethene	<1.8		1.8	0.60	ug/Kg	☼	09/22/17 08:20	09/25/17 20:23	1
1,2-Dichloropropane	<1.8		1.8	0.45	ug/Kg	☼	09/22/17 08:20	09/25/17 20:23	1
1,3-Dichloropropane, Total	<1.8		1.8	0.62	ug/Kg	☼	09/22/17 08:20	09/25/17 20:23	1
Ethylbenzene	<1.8		1.8	0.84	ug/Kg	☼	09/22/17 08:20	09/25/17 20:23	1
2-Hexanone	<4.4		4.4	1.4	ug/Kg	☼	09/22/17 08:20	09/25/17 20:23	1
Methylene Chloride	<4.4		4.4	1.7	ug/Kg	☼	09/22/17 08:20	09/25/17 20:23	1
Methyl Ethyl Ketone	<4.4		4.4	2.0	ug/Kg	☼	09/22/17 08:20	09/25/17 20:23	1
methyl isobutyl ketone	<4.4		4.4	1.3	ug/Kg	☼	09/22/17 08:20	09/25/17 20:23	1
Methyl tert-butyl ether	<1.8		1.8	0.52	ug/Kg	☼	09/22/17 08:20	09/25/17 20:23	1
Styrene	<1.8		1.8	0.53	ug/Kg	☼	09/22/17 08:20	09/25/17 20:23	1
1,1,2,2-Tetrachloroethane	<1.8		1.8	0.56	ug/Kg	☼	09/22/17 08:20	09/25/17 20:23	1
Tetrachloroethene	<1.8		1.8	0.60	ug/Kg	☼	09/22/17 08:20	09/25/17 20:23	1
Toluene	<1.8		1.8	0.44	ug/Kg	☼	09/22/17 08:20	09/25/17 20:23	1
trans-1,2-Dichloroethene	<1.8		1.8	0.78	ug/Kg	☼	09/22/17 08:20	09/25/17 20:23	1
trans-1,3-Dichloropropene	<1.8		1.8	0.62	ug/Kg	☼	09/22/17 08:20	09/25/17 20:23	1
1,1,1-Trichloroethane	<1.8		1.8	0.59	ug/Kg	☼	09/22/17 08:20	09/25/17 20:23	1
1,1,2-Trichloroethane	<1.8		1.8	0.75	ug/Kg	☼	09/22/17 08:20	09/25/17 20:23	1
Trichloroethene	<1.8		1.8	0.59	ug/Kg	☼	09/22/17 08:20	09/25/17 20:23	1
Vinyl chloride	<1.8		1.8	0.78	ug/Kg	☼	09/22/17 08:20	09/25/17 20:23	1
Xylenes, Total	<3.5		3.5	0.56	ug/Kg	☼	09/22/17 08:20	09/25/17 20:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		75 - 131	09/22/17 08:20	09/25/17 20:23	1
Dibromofluoromethane	101		75 - 126	09/22/17 08:20	09/25/17 20:23	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	09/22/17 08:20	09/25/17 20:23	1
Toluene-d8 (Surr)	102		75 - 124	09/22/17 08:20	09/25/17 20:23	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	☼	09/27/17 07:02	09/28/17 18:06	1
1,2-Dichlorobenzene	<200		200	47	ug/Kg	☼	09/27/17 07:02	09/28/17 18:06	1
1,3-Dichlorobenzene	<200		200	45	ug/Kg	☼	09/27/17 07:02	09/28/17 18:06	1
1,4-Dichlorobenzene	<200		200	51	ug/Kg	☼	09/27/17 07:02	09/28/17 18:06	1
2,2'-oxybis[1-chloropropane]	<200		200	46	ug/Kg	☼	09/27/17 07:02	09/28/17 18:06	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134432-1

Client Sample ID: FH-15(5-10)-092117

Lab Sample ID: 500-134432-17

Date Collected: 09/21/17 09:42

Matrix: Solid

Date Received: 09/21/17 16:15

Percent Solids: 80.2

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	91	ug/Kg	☼	09/27/17 07:02	09/28/17 18:06	1
2,4,6-Trichlorophenol	<390		390	140	ug/Kg	☼	09/27/17 07:02	09/28/17 18:06	1
2,4-Dichlorophenol	<390		390	94	ug/Kg	☼	09/27/17 07:02	09/28/17 18:06	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	09/27/17 07:02	09/28/17 18:06	1
2,4-Dinitrophenol	<800		800	700	ug/Kg	☼	09/27/17 07:02	09/28/17 18:06	1
2,4-Dinitrotoluene	<200		200	63	ug/Kg	☼	09/27/17 07:02	09/28/17 18:06	1
2,6-Dinitrotoluene	<200		200	78	ug/Kg	☼	09/27/17 07:02	09/28/17 18:06	1
2-Chloronaphthalene	<200		200	44	ug/Kg	☼	09/27/17 07:02	09/28/17 18:06	1
2-Chlorophenol	<200		200	68	ug/Kg	☼	09/27/17 07:02	09/28/17 18:06	1
2-Methylnaphthalene	<80		80	7.3	ug/Kg	☼	09/27/17 07:02	09/28/17 18:06	1
2-Methylphenol	<200		200	64	ug/Kg	☼	09/27/17 07:02	09/28/17 18:06	1
2-Nitroaniline	<200		200	53	ug/Kg	☼	09/27/17 07:02	09/28/17 18:06	1
2-Nitrophenol	<390		390	94	ug/Kg	☼	09/27/17 07:02	09/28/17 18:06	1
3 & 4 Methylphenol	<200		200	66	ug/Kg	☼	09/27/17 07:02	09/28/17 18:06	1
3,3'-Dichlorobenzidine	<200		200	56	ug/Kg	☼	09/27/17 07:02	09/28/17 18:06	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	09/27/17 07:02	09/28/17 18:06	1
4,6-Dinitro-2-methylphenol	<800		800	320	ug/Kg	☼	09/27/17 07:02	09/28/17 18:06	1
4-Bromophenyl phenyl ether	<200		200	52	ug/Kg	☼	09/27/17 07:02	09/28/17 18:06	1
4-Chloro-3-methylphenol	<390		390	140	ug/Kg	☼	09/27/17 07:02	09/28/17 18:06	1
4-Chloroaniline	<800		800	190	ug/Kg	☼	09/27/17 07:02	09/28/17 18:06	1
4-Chlorophenyl phenyl ether	<200		200	46	ug/Kg	☼	09/27/17 07:02	09/28/17 18:06	1
4-Nitroaniline	<390		390	170	ug/Kg	☼	09/27/17 07:02	09/28/17 18:06	1
4-Nitrophenol	<800		800	380	ug/Kg	☼	09/27/17 07:02	09/28/17 18:06	1
Acenaphthene	<39		39	7.1	ug/Kg	☼	09/27/17 07:02	09/28/17 18:06	1
Acenaphthylene	<39		39	5.2	ug/Kg	☼	09/27/17 07:02	09/28/17 18:06	1
Anthracene	12	J	39	6.6	ug/Kg	☼	09/27/17 07:02	09/28/17 18:06	1
Benzo[a]anthracene	46		39	5.3	ug/Kg	☼	09/27/17 07:02	09/28/17 18:06	1
Benzo[a]pyrene	46		39	7.7	ug/Kg	☼	09/27/17 07:02	09/28/17 18:06	1
Benzo[b]fluoranthene	58		39	8.6	ug/Kg	☼	09/27/17 07:02	09/28/17 18:06	1
Benzo[g,h,i]perylene	22	J	39	13	ug/Kg	☼	09/27/17 07:02	09/28/17 18:06	1
Benzo[k]fluoranthene	28	J	39	12	ug/Kg	☼	09/27/17 07:02	09/28/17 18:06	1
Bis(2-chloroethoxy)methane	<200		200	41	ug/Kg	☼	09/27/17 07:02	09/28/17 18:06	1
Bis(2-chloroethyl)ether	<200		200	60	ug/Kg	☼	09/27/17 07:02	09/28/17 18:06	1
Bis(2-ethylhexyl) phthalate	<200		200	73	ug/Kg	☼	09/27/17 07:02	09/28/17 18:06	1
Butyl benzyl phthalate	<200		200	76	ug/Kg	☼	09/27/17 07:02	09/28/17 18:06	1
Carbazole	<200		200	99	ug/Kg	☼	09/27/17 07:02	09/28/17 18:06	1
Chrysene	52		39	11	ug/Kg	☼	09/27/17 07:02	09/28/17 18:06	1
Dibenz(a,h)anthracene	<39		39	7.7	ug/Kg	☼	09/27/17 07:02	09/28/17 18:06	1
Dibenzofuran	<200		200	47	ug/Kg	☼	09/27/17 07:02	09/28/17 18:06	1
Diethyl phthalate	<200		200	67	ug/Kg	☼	09/27/17 07:02	09/28/17 18:06	1
Dimethyl phthalate	<200		200	52	ug/Kg	☼	09/27/17 07:02	09/28/17 18:06	1
Di-n-butyl phthalate	<200		200	61	ug/Kg	☼	09/27/17 07:02	09/28/17 18:06	1
Di-n-octyl phthalate	<200		200	65	ug/Kg	☼	09/27/17 07:02	09/28/17 18:06	1
Fluoranthene	110		39	7.4	ug/Kg	☼	09/27/17 07:02	09/28/17 18:06	1
Fluorene	<39		39	5.6	ug/Kg	☼	09/27/17 07:02	09/28/17 18:06	1
Hexachlorobenzene	<80		80	9.2	ug/Kg	☼	09/27/17 07:02	09/28/17 18:06	1
Hexachlorobutadiene	<200		200	62	ug/Kg	☼	09/27/17 07:02	09/28/17 18:06	1
Hexachlorocyclopentadiene	<800		800	230	ug/Kg	☼	09/27/17 07:02	09/28/17 18:06	1
Hexachloroethane	<200		200	60	ug/Kg	☼	09/27/17 07:02	09/28/17 18:06	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134432-1

Client Sample ID: FH-15(5-10)-092117

Lab Sample ID: 500-134432-17

Date Collected: 09/21/17 09:42

Matrix: Solid

Date Received: 09/21/17 16:15

Percent Solids: 80.2

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	24	J	39	10	ug/Kg	☼	09/27/17 07:02	09/28/17 18:06	1
Isophorone	<200		200	45	ug/Kg	☼	09/27/17 07:02	09/28/17 18:06	1
Naphthalene	<39		39	6.1	ug/Kg	☼	09/27/17 07:02	09/28/17 18:06	1
Nitrobenzene	<39		39	9.9	ug/Kg	☼	09/27/17 07:02	09/28/17 18:06	1
N-Nitrosodi-n-propylamine	<80		80	49	ug/Kg	☼	09/27/17 07:02	09/28/17 18:06	1
N-Nitrosodiphenylamine	<200		200	47	ug/Kg	☼	09/27/17 07:02	09/28/17 18:06	1
Pentachlorophenol	<800		800	640	ug/Kg	☼	09/27/17 07:02	09/28/17 18:06	1
Phenanthrene	61		39	5.5	ug/Kg	☼	09/27/17 07:02	09/28/17 18:06	1
Phenol	<200		200	88	ug/Kg	☼	09/27/17 07:02	09/28/17 18:06	1
Pyrene	71		39	7.9	ug/Kg	☼	09/27/17 07:02	09/28/17 18:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	72		25 - 139				09/27/17 07:02	09/28/17 18:06	1
2-Fluorobiphenyl	82		44 - 121				09/27/17 07:02	09/28/17 18:06	1
2-Fluorophenol	118		46 - 133				09/27/17 07:02	09/28/17 18:06	1
Nitrobenzene-d5	83		41 - 120				09/27/17 07:02	09/28/17 18:06	1
Phenol-d5	98		46 - 125				09/27/17 07:02	09/28/17 18:06	1
Terphenyl-d14	92		35 - 160				09/27/17 07:02	09/28/17 18:06	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		09/27/17 15:41	09/28/17 13:57	1
Barium	0.47	J	0.50	0.050	mg/L		09/27/17 15:41	09/28/17 13:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/27/17 15:41	09/28/17 13:57	1
Cadmium	0.0030	J	0.0050	0.0020	mg/L		09/27/17 15:41	09/28/17 13:57	1
Chromium	<0.025		0.025	0.010	mg/L		09/27/17 15:41	09/28/17 13:57	1
Cobalt	0.048		0.025	0.010	mg/L		09/27/17 15:41	09/28/17 13:57	1
Copper	0.012	J	0.025	0.010	mg/L		09/27/17 15:41	09/28/17 13:57	1
Iron	<0.40		0.40	0.20	mg/L		09/27/17 15:41	09/28/17 13:57	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/27/17 15:41	09/28/17 13:57	1
Manganese	13		0.025	0.010	mg/L		09/27/17 15:41	09/28/17 13:57	1
Nickel	0.039		0.025	0.010	mg/L		09/27/17 15:41	09/28/17 13:57	1
Selenium	<0.050		0.050	0.020	mg/L		09/27/17 15:41	09/28/17 13:57	1
Silver	<0.025		0.025	0.010	mg/L		09/27/17 15:41	09/28/17 13:57	1
Zinc	0.030	J	0.50	0.020	mg/L		09/27/17 15:41	09/28/17 13:57	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		09/27/17 15:43	09/28/17 13:58	1
Barium	<0.50		0.50	0.050	mg/L		09/27/17 15:43	09/28/17 13:58	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/27/17 15:43	09/28/17 13:58	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/27/17 15:43	09/28/17 13:58	1
Chromium	<0.025		0.025	0.010	mg/L		09/27/17 15:43	09/28/17 13:58	1
Cobalt	<0.025		0.025	0.010	mg/L		09/27/17 15:43	09/28/17 13:58	1
Copper	<0.025		0.025	0.010	mg/L		09/27/17 15:43	09/28/17 13:58	1
Iron	1.7		0.40	0.20	mg/L		09/27/17 15:43	09/28/17 13:58	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/27/17 15:43	09/28/17 13:58	1
Manganese	0.098		0.025	0.010	mg/L		09/27/17 15:43	09/28/17 13:58	1
Nickel	<0.025		0.025	0.010	mg/L		09/27/17 15:43	09/28/17 13:58	1
Selenium	<0.050		0.050	0.020	mg/L		09/27/17 15:43	09/28/17 13:58	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134432-1

Client Sample ID: FH-15(5-10)-092117

Lab Sample ID: 500-134432-17

Date Collected: 09/21/17 09:42

Matrix: Solid

Date Received: 09/21/17 16:15

Percent Solids: 80.2

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		09/27/17 15:43	09/28/17 13:58	1
Zinc	<0.50		0.50	0.020	mg/L		09/27/17 15:43	09/28/17 13:58	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.31	J	1.2	0.23	mg/Kg	☼	09/26/17 07:58	09/26/17 19:47	1
Arsenic	12		0.59	0.20	mg/Kg	☼	09/26/17 07:58	09/26/17 19:47	1
Barium	53		0.59	0.067	mg/Kg	☼	09/26/17 07:58	09/26/17 19:47	1
Beryllium	0.64		0.23	0.055	mg/Kg	☼	09/26/17 07:58	09/26/17 19:47	1
Cadmium	0.27		0.12	0.021	mg/Kg	☼	09/26/17 07:58	09/26/17 19:47	1
Calcium	25000	B	12	2.0	mg/Kg	☼	09/26/17 07:58	09/26/17 19:47	1
Chromium	16		0.59	0.29	mg/Kg	☼	09/26/17 07:58	09/26/17 19:47	1
Cobalt	17		0.29	0.077	mg/Kg	☼	09/26/17 07:58	09/26/17 19:47	1
Copper	29		0.59	0.16	mg/Kg	☼	09/26/17 07:58	09/26/17 19:47	1
Iron	21000	B	12	6.1	mg/Kg	☼	09/26/17 07:58	09/26/17 19:47	1
Lead	26		0.29	0.14	mg/Kg	☼	09/26/17 07:58	09/26/17 19:47	1
Magnesium	18000	B	5.9	2.9	mg/Kg	☼	09/26/17 07:58	09/26/17 19:47	1
Manganese	510	B	0.59	0.085	mg/Kg	☼	09/26/17 07:58	09/26/17 19:47	1
Nickel	37		0.59	0.17	mg/Kg	☼	09/26/17 07:58	09/26/17 19:47	1
Potassium	1700		29	10	mg/Kg	☼	09/26/17 07:58	09/26/17 19:47	1
Selenium	<0.59		0.59	0.34	mg/Kg	☼	09/26/17 07:58	09/26/17 19:47	1
Silver	<0.29		0.29	0.076	mg/Kg	☼	09/26/17 07:58	09/26/17 19:47	1
Sodium	79		59	8.7	mg/Kg	☼	09/26/17 07:58	09/26/17 19:47	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	09/26/17 07:58	09/26/17 19:47	1
Vanadium	21		0.29	0.069	mg/Kg	☼	09/26/17 07:58	09/26/17 19:47	1
Zinc	64		1.2	0.51	mg/Kg	☼	09/26/17 07:58	09/26/17 19:47	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		09/27/17 15:10	09/28/17 08:32	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		09/27/17 15:10	09/28/17 09:15	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	49		19	6.2	ug/Kg	☼	09/27/17 13:30	09/28/17 09:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.8		0.20	0.20	SU			09/27/17 02:28	1

Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134432-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

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.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
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.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Weston Solutions, Inc.

TestAmerica Job ID: 500-134432-1

Project/Site: IDOT - Eisenhower Expressway - WO 062

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Illinois	NELAP	5	100201	04-30-19

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

Analysis Method	Prep Method	Matrix	Analyte
8260B	5035	Solid	1,3-Dichloropropene, Total
9045D		Solid	pH
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

TestAmerica

THE LEADER IN ENVIRONMENTAL

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



500-134432 COC

Report To (optional)
Contact: Bubon
Company: Weston Solutions
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: _____

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

Chain of Custody Record

Lab Job #: 500-134432
Chain of Custody Number: _____
Page 1 of 5
Temperature of Cooler: 24, 30, 21, 37, 42

Client		Client Project #		Preservative		Parameter		Matrix		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	
Project Name		Lab Project #		Parameter		Matrix		Comments			
Project Location/State		Lab Project #		Parameter		Matrix					
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	1	8	8	8	8
1		FH-13(54-62)-092017	09-20-17	1520	6 S	SOC	X	X	X	X	X
2		FH-13(62-69)-092017	09-20-17	1600	6 S	SUSC	X	X	X	X	X
3		FH-9(10-15)-092017		1555	6 S		X	X	X	X	X
4		FH-9(15-20)-092017		1602	6 S		X	X	X	X	X
5		FH-9(20-25)-092017		1610	6 S		X	X	X	X	X
6		FH-9(25-30)-092017		1620	6 S		X	X	X	X	X
7		FH-9(32-35)-092017		1624	6 S		X	X	X	X	X
8		FH-12(0-5)-092117	9/21/17	0819	6 S		X	X	X	X	X
9		FH-12(5-10)-092117		0825	6 S		X	X	X	X	X
10		FH-12(5-10)-092117		0825	6 S		X	X	X	X	X

Turnaround Time Required (Business Days)

___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days 10 Days ___ 15 Days ___ Other

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 <u>[Signature]</u>	Company <u>Weston</u>	Date <u>9/21/17</u>	Time <u>1514</u>	Received By <u>P. Neal</u>	Company <u>TA</u>	Date <u>9/21/17</u>	Time <u>1514</u>
Relinquished By <u>P. Neal</u>	Company <u>TA</u>	Date <u>9/21/17</u>	Time <u>1615</u>	Received By <u>[Signature]</u>	Company <u>TA-CH</u>	Date <u>9/22/17</u>	Time <u>0730</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TA
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

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-134433-1

Client Project/Site: IDOT - Eisenhower Expressway - WO 062

For:

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

Attn: Mr. S. Babusukumar



Authorized for release by:
9/29/2017 3:16:52 PM

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

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134433-1

Client Sample ID: FH-17(0-5)-092117

Lab Sample ID: 500-134433-4

Date Collected: 09/21/17 11:15

Matrix: Solid

Date Received: 09/21/17 16:15

Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	35		20	8.7	ug/Kg	☼	09/22/17 08:20	09/25/17 19:36	1
Benzene	<2.0		2.0	0.51	ug/Kg	☼	09/22/17 08:20	09/25/17 19:36	1
Bromodichloromethane	<2.0		2.0	0.41	ug/Kg	☼	09/22/17 08:20	09/25/17 19:36	1
Bromoform	<2.0		2.0	0.59	ug/Kg	☼	09/22/17 08:20	09/25/17 19:36	1
Bromomethane	<5.0		5.0	1.9	ug/Kg	☼	09/22/17 08:20	09/25/17 19:36	1
Carbon disulfide	<5.0		5.0	1.0	ug/Kg	☼	09/22/17 08:20	09/25/17 19:36	1
Carbon tetrachloride	<2.0		2.0	0.58	ug/Kg	☼	09/22/17 08:20	09/25/17 19:36	1
Chlorobenzene	<2.0		2.0	0.74	ug/Kg	☼	09/22/17 08:20	09/25/17 19:36	1
Chloroethane	<5.0		5.0	1.5	ug/Kg	☼	09/22/17 08:20	09/25/17 19:36	1
Chloroform	<2.0		2.0	0.70	ug/Kg	☼	09/22/17 08:20	09/25/17 19:36	1
Chloromethane	<5.0		5.0	2.0	ug/Kg	☼	09/22/17 08:20	09/25/17 19:36	1
cis-1,2-Dichloroethene	<2.0		2.0	0.56	ug/Kg	☼	09/22/17 08:20	09/25/17 19:36	1
cis-1,3-Dichloropropene	<2.0		2.0	0.61	ug/Kg	☼	09/22/17 08:20	09/25/17 19:36	1
Dibromochloromethane	<2.0		2.0	0.66	ug/Kg	☼	09/22/17 08:20	09/25/17 19:36	1
1,1-Dichloroethane	<2.0		2.0	0.69	ug/Kg	☼	09/22/17 08:20	09/25/17 19:36	1
1,2-Dichloroethane	<5.0		5.0	1.6	ug/Kg	☼	09/22/17 08:20	09/25/17 19:36	1
1,1-Dichloroethene	<2.0		2.0	0.69	ug/Kg	☼	09/22/17 08:20	09/25/17 19:36	1
1,2-Dichloropropane	<2.0		2.0	0.52	ug/Kg	☼	09/22/17 08:20	09/25/17 19:36	1
1,3-Dichloropropene, Total	<2.0		2.0	0.70	ug/Kg	☼	09/22/17 08:20	09/25/17 19:36	1
Ethylbenzene	<2.0		2.0	0.96	ug/Kg	☼	09/22/17 08:20	09/25/17 19:36	1
2-Hexanone	<5.0		5.0	1.6	ug/Kg	☼	09/22/17 08:20	09/25/17 19:36	1
Methylene Chloride	<5.0		5.0	2.0	ug/Kg	☼	09/22/17 08:20	09/25/17 19:36	1
Methyl Ethyl Ketone	<5.0		5.0	2.2	ug/Kg	☼	09/22/17 08:20	09/25/17 19:36	1
methyl isobutyl ketone	<5.0		5.0	1.5	ug/Kg	☼	09/22/17 08:20	09/25/17 19:36	1
Methyl tert-butyl ether	<2.0		2.0	0.59	ug/Kg	☼	09/22/17 08:20	09/25/17 19:36	1
Styrene	<2.0		2.0	0.61	ug/Kg	☼	09/22/17 08:20	09/25/17 19:36	1
1,1,2,2-Tetrachloroethane	<2.0		2.0	0.64	ug/Kg	☼	09/22/17 08:20	09/25/17 19:36	1
Tetrachloroethene	<2.0		2.0	0.68	ug/Kg	☼	09/22/17 08:20	09/25/17 19:36	1
Toluene	<2.0		2.0	0.51	ug/Kg	☼	09/22/17 08:20	09/25/17 19:36	1
trans-1,2-Dichloroethene	<2.0		2.0	0.89	ug/Kg	☼	09/22/17 08:20	09/25/17 19:36	1
trans-1,3-Dichloropropene	<2.0		2.0	0.70	ug/Kg	☼	09/22/17 08:20	09/25/17 19:36	1
1,1,1-Trichloroethane	<2.0		2.0	0.67	ug/Kg	☼	09/22/17 08:20	09/25/17 19:36	1
1,1,2-Trichloroethane	<2.0		2.0	0.86	ug/Kg	☼	09/22/17 08:20	09/25/17 19:36	1
Trichloroethene	<2.0		2.0	0.68	ug/Kg	☼	09/22/17 08:20	09/25/17 19:36	1
Vinyl chloride	<2.0		2.0	0.89	ug/Kg	☼	09/22/17 08:20	09/25/17 19:36	1
Xylenes, Total	<4.0		4.0	0.64	ug/Kg	☼	09/22/17 08:20	09/25/17 19:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		75 - 131	09/22/17 08:20	09/25/17 19:36	1
Dibromofluoromethane	99		75 - 126	09/22/17 08:20	09/25/17 19:36	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	09/22/17 08:20	09/25/17 19:36	1
Toluene-d8 (Surr)	86		75 - 124	09/22/17 08:20	09/25/17 19:36	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	☼	09/27/17 08:50	09/28/17 17:13	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	09/27/17 08:50	09/28/17 17:13	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	09/27/17 08:50	09/28/17 17:13	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	09/27/17 08:50	09/28/17 17:13	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	09/27/17 08:50	09/28/17 17:13	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134433-1

Client Sample ID: FH-17(0-5)-092117

Lab Sample ID: 500-134433-4

Date Collected: 09/21/17 11:15

Matrix: Solid

Date Received: 09/21/17 16:15

Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	85	ug/Kg	☼	09/27/17 08:50	09/28/17 17:13	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	09/27/17 08:50	09/28/17 17:13	1
2,4-Dichlorophenol	<370		370	88	ug/Kg	☼	09/27/17 08:50	09/28/17 17:13	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	09/27/17 08:50	09/28/17 17:13	1
2,4-Dinitrophenol	<750		750	660	ug/Kg	☼	09/27/17 08:50	09/28/17 17:13	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	09/27/17 08:50	09/28/17 17:13	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	09/27/17 08:50	09/28/17 17:13	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	09/27/17 08:50	09/28/17 17:13	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	09/27/17 08:50	09/28/17 17:13	1
2-Methylnaphthalene	<75		75	6.8	ug/Kg	☼	09/27/17 08:50	09/28/17 17:13	1
2-Methylphenol	<190		190	60	ug/Kg	☼	09/27/17 08:50	09/28/17 17:13	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	09/27/17 08:50	09/28/17 17:13	1
2-Nitrophenol	<370		370	88	ug/Kg	☼	09/27/17 08:50	09/28/17 17:13	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	09/27/17 08:50	09/28/17 17:13	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	09/27/17 08:50	09/28/17 17:13	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	09/27/17 08:50	09/28/17 17:13	1
4,6-Dinitro-2-methylphenol	<750		750	300	ug/Kg	☼	09/27/17 08:50	09/28/17 17:13	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	09/27/17 08:50	09/28/17 17:13	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	09/27/17 08:50	09/28/17 17:13	1
4-Chloroaniline	<750		750	170	ug/Kg	☼	09/27/17 08:50	09/28/17 17:13	1
4-Chlorophenyl phenyl ether	<190		190	43	ug/Kg	☼	09/27/17 08:50	09/28/17 17:13	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	09/27/17 08:50	09/28/17 17:13	1
4-Nitrophenol	<750		750	350	ug/Kg	☼	09/27/17 08:50	09/28/17 17:13	1
Acenaphthene	<37		37	6.7	ug/Kg	☼	09/27/17 08:50	09/28/17 17:13	1
Acenaphthylene	<37		37	4.9	ug/Kg	☼	09/27/17 08:50	09/28/17 17:13	1
Anthracene	8.3	J	37	6.2	ug/Kg	☼	09/27/17 08:50	09/28/17 17:13	1
Benzo[a]anthracene	40		37	5.0	ug/Kg	☼	09/27/17 08:50	09/28/17 17:13	1
Benzo[a]pyrene	39		37	7.2	ug/Kg	☼	09/27/17 08:50	09/28/17 17:13	1
Benzo[b]fluoranthene	55		37	8.0	ug/Kg	☼	09/27/17 08:50	09/28/17 17:13	1
Benzo[g,h,i]perylene	26	J	37	12	ug/Kg	☼	09/27/17 08:50	09/28/17 17:13	1
Benzo[k]fluoranthene	25	J	37	11	ug/Kg	☼	09/27/17 08:50	09/28/17 17:13	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	09/27/17 08:50	09/28/17 17:13	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	09/27/17 08:50	09/28/17 17:13	1
Bis(2-ethylhexyl) phthalate	<190		190	68	ug/Kg	☼	09/27/17 08:50	09/28/17 17:13	1
Butyl benzyl phthalate	<190		190	71	ug/Kg	☼	09/27/17 08:50	09/28/17 17:13	1
Carbazole	<190		190	93	ug/Kg	☼	09/27/17 08:50	09/28/17 17:13	1
Chrysene	46		37	10	ug/Kg	☼	09/27/17 08:50	09/28/17 17:13	1
Dibenz(a,h)anthracene	<37		37	7.2	ug/Kg	☼	09/27/17 08:50	09/28/17 17:13	1
Dibenzofuran	<190		190	44	ug/Kg	☼	09/27/17 08:50	09/28/17 17:13	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	09/27/17 08:50	09/28/17 17:13	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	09/27/17 08:50	09/28/17 17:13	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	09/27/17 08:50	09/28/17 17:13	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	09/27/17 08:50	09/28/17 17:13	1
Fluoranthene	87		37	6.9	ug/Kg	☼	09/27/17 08:50	09/28/17 17:13	1
Fluorene	<37		37	5.2	ug/Kg	☼	09/27/17 08:50	09/28/17 17:13	1
Hexachlorobenzene	<75		75	8.6	ug/Kg	☼	09/27/17 08:50	09/28/17 17:13	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	09/27/17 08:50	09/28/17 17:13	1
Hexachlorocyclopentadiene	<750		750	210	ug/Kg	☼	09/27/17 08:50	09/28/17 17:13	1
Hexachloroethane	<190		190	57	ug/Kg	☼	09/27/17 08:50	09/28/17 17:13	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134433-1

Client Sample ID: FH-17(0-5)-092117

Lab Sample ID: 500-134433-4

Date Collected: 09/21/17 11:15

Matrix: Solid

Date Received: 09/21/17 16:15

Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	24	J	37	9.7	ug/Kg	☼	09/27/17 08:50	09/28/17 17:13	1
Isophorone	<190		190	42	ug/Kg	☼	09/27/17 08:50	09/28/17 17:13	1
Naphthalene	<37		37	5.7	ug/Kg	☼	09/27/17 08:50	09/28/17 17:13	1
Nitrobenzene	<37		37	9.3	ug/Kg	☼	09/27/17 08:50	09/28/17 17:13	1
N-Nitrosodi-n-propylamine	<75		75	46	ug/Kg	☼	09/27/17 08:50	09/28/17 17:13	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	09/27/17 08:50	09/28/17 17:13	1
Pentachlorophenol	<750		750	600	ug/Kg	☼	09/27/17 08:50	09/28/17 17:13	1
Phenanthrene	49		37	5.2	ug/Kg	☼	09/27/17 08:50	09/28/17 17:13	1
Phenol	<190		190	83	ug/Kg	☼	09/27/17 08:50	09/28/17 17:13	1
Pyrene	75		37	7.4	ug/Kg	☼	09/27/17 08:50	09/28/17 17:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	71		25 - 139				09/27/17 08:50	09/28/17 17:13	1
2-Fluorobiphenyl	88		44 - 121				09/27/17 08:50	09/28/17 17:13	1
2-Fluorophenol	124		46 - 133				09/27/17 08:50	09/28/17 17:13	1
Nitrobenzene-d5	96		41 - 120				09/27/17 08:50	09/28/17 17:13	1
Phenol-d5	110		46 - 125				09/27/17 08:50	09/28/17 17:13	1
Terphenyl-d14	95		35 - 160				09/27/17 08:50	09/28/17 17:13	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		09/28/17 15:42	09/29/17 12:28	1
Barium	0.32	J	0.50	0.050	mg/L		09/28/17 15:42	09/29/17 12:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/28/17 15:42	09/29/17 12:28	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/28/17 15:42	09/29/17 12:28	1
Chromium	<0.025		0.025	0.010	mg/L		09/28/17 15:42	09/29/17 12:28	1
Cobalt	<0.025		0.025	0.010	mg/L		09/28/17 15:42	09/29/17 12:28	1
Copper	<0.025		0.025	0.010	mg/L		09/28/17 15:42	09/29/17 12:28	1
Iron	<0.40		0.40	0.20	mg/L		09/28/17 15:42	09/29/17 12:28	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/28/17 15:42	09/29/17 12:28	1
Manganese	4.7		0.025	0.010	mg/L		09/28/17 15:42	09/29/17 12:28	1
Nickel	0.017	J	0.025	0.010	mg/L		09/28/17 15:42	09/29/17 12:28	1
Selenium	<0.050		0.050	0.020	mg/L		09/28/17 15:42	09/29/17 12:28	1
Silver	<0.025		0.025	0.010	mg/L		09/28/17 15:42	09/29/17 12:28	1
Zinc	<0.50		0.50	0.020	mg/L		09/28/17 15:42	09/29/17 12:28	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		09/28/17 06:53	09/28/17 17:34	1
Barium	0.067	J	0.50	0.050	mg/L		09/28/17 06:53	09/28/17 17:34	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/28/17 06:53	09/28/17 17:34	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/28/17 06:53	09/28/17 17:34	1
Chromium	0.016	J	0.025	0.010	mg/L		09/28/17 06:53	09/28/17 17:34	1
Cobalt	<0.025		0.025	0.010	mg/L		09/28/17 06:53	09/28/17 17:34	1
Copper	0.014	J	0.025	0.010	mg/L		09/28/17 06:53	09/28/17 17:34	1
Iron	11		0.40	0.20	mg/L		09/28/17 06:53	09/28/17 17:34	1
Lead	0.0086		0.0075	0.0075	mg/L		09/28/17 06:53	09/28/17 17:34	1
Manganese	0.062		0.025	0.010	mg/L		09/28/17 06:53	09/28/17 17:34	1
Nickel	<0.025		0.025	0.010	mg/L		09/28/17 06:53	09/28/17 17:34	1
Selenium	<0.050		0.050	0.020	mg/L		09/28/17 06:53	09/28/17 17:34	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134433-1

Client Sample ID: FH-17(0-5)-092117

Lab Sample ID: 500-134433-4

Date Collected: 09/21/17 11:15

Matrix: Solid

Date Received: 09/21/17 16:15

Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		09/28/17 06:53	09/28/17 17:34	1
Zinc	0.024	J	0.50	0.020	mg/L		09/28/17 06:53	09/28/17 17:34	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.26	J	1.2	0.22	mg/Kg	☼	09/26/17 16:00	09/27/17 19:29	1
Arsenic	11		0.58	0.20	mg/Kg	☼	09/26/17 16:00	09/27/17 19:29	1
Barium	70		0.58	0.066	mg/Kg	☼	09/26/17 16:00	09/27/17 19:29	1
Beryllium	0.72		0.23	0.054	mg/Kg	☼	09/26/17 16:00	09/27/17 19:29	1
Cadmium	0.25	B	0.12	0.021	mg/Kg	☼	09/26/17 16:00	09/27/17 19:29	1
Calcium	19000	B	12	2.0	mg/Kg	☼	09/26/17 16:00	09/27/17 19:29	1
Chromium	16		0.58	0.29	mg/Kg	☼	09/26/17 16:00	09/27/17 19:29	1
Cobalt	18		0.29	0.075	mg/Kg	☼	09/26/17 16:00	09/27/17 19:29	1
Copper	26		0.58	0.16	mg/Kg	☼	09/26/17 16:00	09/27/17 19:29	1
Iron	21000		12	6.0	mg/Kg	☼	09/26/17 16:00	09/27/17 19:29	1
Lead	21		0.29	0.13	mg/Kg	☼	09/26/17 16:00	09/27/17 19:29	1
Magnesium	14000		5.8	2.9	mg/Kg	☼	09/26/17 16:00	09/27/17 19:29	1
Manganese	800		0.58	0.083	mg/Kg	☼	09/26/17 16:00	09/27/17 19:29	1
Nickel	35		0.58	0.17	mg/Kg	☼	09/26/17 16:00	09/27/17 19:29	1
Potassium	1800		29	10	mg/Kg	☼	09/26/17 16:00	09/27/17 19:29	1
Selenium	<0.58		0.58	0.34	mg/Kg	☼	09/26/17 16:00	09/27/17 19:29	1
Silver	<0.29		0.29	0.074	mg/Kg	☼	09/26/17 16:00	09/27/17 19:29	1
Sodium	110		58	8.5	mg/Kg	☼	09/26/17 16:00	09/27/17 19:29	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	09/26/17 16:00	09/27/17 19:29	1
Vanadium	24		0.29	0.068	mg/Kg	☼	09/26/17 16:00	09/27/17 19:29	1
Zinc	62		1.2	0.51	mg/Kg	☼	09/26/17 16:00	09/27/17 19:29	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		09/28/17 13:25	09/29/17 09:15	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		09/27/17 15:10	09/28/17 09:45	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	46		19	6.2	ug/Kg	☼	09/27/17 13:30	09/28/17 10:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.2		0.20	0.20	SU			09/28/17 15:09	1

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134433-1

Client Sample ID: FH-17(5-10)-092117

Lab Sample ID: 500-134433-5

Date Collected: 09/21/17 11:22

Matrix: Solid

Date Received: 09/21/17 16:15

Percent Solids: 81.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	20		19	8.3	ug/Kg	☼	09/22/17 08:20	09/25/17 20:01	1
Benzene	<1.9		1.9	0.49	ug/Kg	☼	09/22/17 08:20	09/25/17 20:01	1
Bromodichloromethane	<1.9		1.9	0.39	ug/Kg	☼	09/22/17 08:20	09/25/17 20:01	1
Bromoform	<1.9		1.9	0.56	ug/Kg	☼	09/22/17 08:20	09/25/17 20:01	1
Bromomethane	<4.8		4.8	1.8	ug/Kg	☼	09/22/17 08:20	09/25/17 20:01	1
Carbon disulfide	<4.8		4.8	0.99	ug/Kg	☼	09/22/17 08:20	09/25/17 20:01	1
Carbon tetrachloride	<1.9		1.9	0.55	ug/Kg	☼	09/22/17 08:20	09/25/17 20:01	1
Chlorobenzene	<1.9		1.9	0.70	ug/Kg	☼	09/22/17 08:20	09/25/17 20:01	1
Chloroethane	<4.8		4.8	1.4	ug/Kg	☼	09/22/17 08:20	09/25/17 20:01	1
Chloroform	<1.9		1.9	0.66	ug/Kg	☼	09/22/17 08:20	09/25/17 20:01	1
Chloromethane	<4.8		4.8	1.9	ug/Kg	☼	09/22/17 08:20	09/25/17 20:01	1
cis-1,2-Dichloroethene	<1.9		1.9	0.53	ug/Kg	☼	09/22/17 08:20	09/25/17 20:01	1
cis-1,3-Dichloropropene	<1.9		1.9	0.57	ug/Kg	☼	09/22/17 08:20	09/25/17 20:01	1
Dibromochloromethane	<1.9		1.9	0.62	ug/Kg	☼	09/22/17 08:20	09/25/17 20:01	1
1,1-Dichloroethane	<1.9		1.9	0.65	ug/Kg	☼	09/22/17 08:20	09/25/17 20:01	1
1,2-Dichloroethane	<4.8		4.8	1.5	ug/Kg	☼	09/22/17 08:20	09/25/17 20:01	1
1,1-Dichloroethene	<1.9		1.9	0.66	ug/Kg	☼	09/22/17 08:20	09/25/17 20:01	1
1,2-Dichloropropane	<1.9		1.9	0.49	ug/Kg	☼	09/22/17 08:20	09/25/17 20:01	1
1,3-Dichloropropene, Total	<1.9		1.9	0.67	ug/Kg	☼	09/22/17 08:20	09/25/17 20:01	1
Ethylbenzene	<1.9		1.9	0.91	ug/Kg	☼	09/22/17 08:20	09/25/17 20:01	1
2-Hexanone	<4.8		4.8	1.5	ug/Kg	☼	09/22/17 08:20	09/25/17 20:01	1
Methylene Chloride	<4.8		4.8	1.9	ug/Kg	☼	09/22/17 08:20	09/25/17 20:01	1
Methyl Ethyl Ketone	<4.8		4.8	2.1	ug/Kg	☼	09/22/17 08:20	09/25/17 20:01	1
methyl isobutyl ketone	<4.8		4.8	1.4	ug/Kg	☼	09/22/17 08:20	09/25/17 20:01	1
Methyl tert-butyl ether	<1.9		1.9	0.56	ug/Kg	☼	09/22/17 08:20	09/25/17 20:01	1
Styrene	<1.9		1.9	0.58	ug/Kg	☼	09/22/17 08:20	09/25/17 20:01	1
1,1,2,2-Tetrachloroethane	<1.9		1.9	0.61	ug/Kg	☼	09/22/17 08:20	09/25/17 20:01	1
Tetrachloroethene	<1.9		1.9	0.65	ug/Kg	☼	09/22/17 08:20	09/25/17 20:01	1
Toluene	<1.9		1.9	0.48	ug/Kg	☼	09/22/17 08:20	09/25/17 20:01	1
trans-1,2-Dichloroethene	<1.9		1.9	0.84	ug/Kg	☼	09/22/17 08:20	09/25/17 20:01	1
trans-1,3-Dichloropropene	<1.9		1.9	0.67	ug/Kg	☼	09/22/17 08:20	09/25/17 20:01	1
1,1,1-Trichloroethane	<1.9		1.9	0.64	ug/Kg	☼	09/22/17 08:20	09/25/17 20:01	1
1,1,2-Trichloroethane	<1.9		1.9	0.82	ug/Kg	☼	09/22/17 08:20	09/25/17 20:01	1
Trichloroethene	<1.9		1.9	0.64	ug/Kg	☼	09/22/17 08:20	09/25/17 20:01	1
Vinyl chloride	<1.9		1.9	0.84	ug/Kg	☼	09/22/17 08:20	09/25/17 20:01	1
Xylenes, Total	<3.8		3.8	0.61	ug/Kg	☼	09/22/17 08:20	09/25/17 20:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		75 - 131	09/22/17 08:20	09/25/17 20:01	1
Dibromofluoromethane	105		75 - 126	09/22/17 08:20	09/25/17 20:01	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134	09/22/17 08:20	09/25/17 20:01	1
Toluene-d8 (Surr)	103		75 - 124	09/22/17 08:20	09/25/17 20:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<200		200	44	ug/Kg	☼	09/27/17 08:50	09/28/17 17:40	1
1,2-Dichlorobenzene	<200		200	48	ug/Kg	☼	09/27/17 08:50	09/28/17 17:40	1
1,3-Dichlorobenzene	<200		200	46	ug/Kg	☼	09/27/17 08:50	09/28/17 17:40	1
1,4-Dichlorobenzene	<200		200	52	ug/Kg	☼	09/27/17 08:50	09/28/17 17:40	1
2,2'-oxybis[1-chloropropane]	<200		200	47	ug/Kg	☼	09/27/17 08:50	09/28/17 17:40	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134433-1

Client Sample ID: FH-17(5-10)-092117

Lab Sample ID: 500-134433-5

Date Collected: 09/21/17 11:22

Matrix: Solid

Date Received: 09/21/17 16:15

Percent Solids: 81.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<400		400	92	ug/Kg	☼	09/27/17 08:50	09/28/17 17:40	1
2,4,6-Trichlorophenol	<400		400	140	ug/Kg	☼	09/27/17 08:50	09/28/17 17:40	1
2,4-Dichlorophenol	<400		400	96	ug/Kg	☼	09/27/17 08:50	09/28/17 17:40	1
2,4-Dimethylphenol	<400		400	150	ug/Kg	☼	09/27/17 08:50	09/28/17 17:40	1
2,4-Dinitrophenol	<820		820	710	ug/Kg	☼	09/27/17 08:50	09/28/17 17:40	1
2,4-Dinitrotoluene	<200		200	64	ug/Kg	☼	09/27/17 08:50	09/28/17 17:40	1
2,6-Dinitrotoluene	<200		200	80	ug/Kg	☼	09/27/17 08:50	09/28/17 17:40	1
2-Chloronaphthalene	<200		200	45	ug/Kg	☼	09/27/17 08:50	09/28/17 17:40	1
2-Chlorophenol	<200		200	69	ug/Kg	☼	09/27/17 08:50	09/28/17 17:40	1
2-Methylnaphthalene	<82		82	7.4	ug/Kg	☼	09/27/17 08:50	09/28/17 17:40	1
2-Methylphenol	<200		200	65	ug/Kg	☼	09/27/17 08:50	09/28/17 17:40	1
2-Nitroaniline	<200		200	54	ug/Kg	☼	09/27/17 08:50	09/28/17 17:40	1
2-Nitrophenol	<400		400	96	ug/Kg	☼	09/27/17 08:50	09/28/17 17:40	1
3 & 4 Methylphenol	<200		200	67	ug/Kg	☼	09/27/17 08:50	09/28/17 17:40	1
3,3'-Dichlorobenzidine	<200		200	57	ug/Kg	☼	09/27/17 08:50	09/28/17 17:40	1
3-Nitroaniline	<400		400	130	ug/Kg	☼	09/27/17 08:50	09/28/17 17:40	1
4,6-Dinitro-2-methylphenol	<820		820	330	ug/Kg	☼	09/27/17 08:50	09/28/17 17:40	1
4-Bromophenyl phenyl ether	<200		200	53	ug/Kg	☼	09/27/17 08:50	09/28/17 17:40	1
4-Chloro-3-methylphenol	<400		400	140	ug/Kg	☼	09/27/17 08:50	09/28/17 17:40	1
4-Chloroaniline	<820		820	190	ug/Kg	☼	09/27/17 08:50	09/28/17 17:40	1
4-Chlorophenyl phenyl ether	<200		200	47	ug/Kg	☼	09/27/17 08:50	09/28/17 17:40	1
4-Nitroaniline	<400		400	170	ug/Kg	☼	09/27/17 08:50	09/28/17 17:40	1
4-Nitrophenol	<820		820	380	ug/Kg	☼	09/27/17 08:50	09/28/17 17:40	1
Acenaphthene	11 J		40	7.3	ug/Kg	☼	09/27/17 08:50	09/28/17 17:40	1
Acenaphthylene	9.7 J		40	5.3	ug/Kg	☼	09/27/17 08:50	09/28/17 17:40	1
Anthracene	52		40	6.8	ug/Kg	☼	09/27/17 08:50	09/28/17 17:40	1
Benzo[a]anthracene	190		40	5.4	ug/Kg	☼	09/27/17 08:50	09/28/17 17:40	1
Benzo[a]pyrene	170		40	7.8	ug/Kg	☼	09/27/17 08:50	09/28/17 17:40	1
Benzo[b]fluoranthene	230		40	8.7	ug/Kg	☼	09/27/17 08:50	09/28/17 17:40	1
Benzo[g,h,i]perylene	94		40	13	ug/Kg	☼	09/27/17 08:50	09/28/17 17:40	1
Benzo[k]fluoranthene	87		40	12	ug/Kg	☼	09/27/17 08:50	09/28/17 17:40	1
Bis(2-chloroethoxy)methane	<200		200	41	ug/Kg	☼	09/27/17 08:50	09/28/17 17:40	1
Bis(2-chloroethyl)ether	<200		200	61	ug/Kg	☼	09/27/17 08:50	09/28/17 17:40	1
Bis(2-ethylhexyl) phthalate	<200		200	74	ug/Kg	☼	09/27/17 08:50	09/28/17 17:40	1
Butyl benzyl phthalate	<200		200	77	ug/Kg	☼	09/27/17 08:50	09/28/17 17:40	1
Carbazole	<200		200	100	ug/Kg	☼	09/27/17 08:50	09/28/17 17:40	1
Chrysene	200		40	11	ug/Kg	☼	09/27/17 08:50	09/28/17 17:40	1
Dibenz(a,h)anthracene	21 J		40	7.8	ug/Kg	☼	09/27/17 08:50	09/28/17 17:40	1
Dibenzofuran	<200		200	47	ug/Kg	☼	09/27/17 08:50	09/28/17 17:40	1
Diethyl phthalate	<200		200	69	ug/Kg	☼	09/27/17 08:50	09/28/17 17:40	1
Dimethyl phthalate	<200		200	53	ug/Kg	☼	09/27/17 08:50	09/28/17 17:40	1
Di-n-butyl phthalate	<200		200	62	ug/Kg	☼	09/27/17 08:50	09/28/17 17:40	1
Di-n-octyl phthalate	<200		200	66	ug/Kg	☼	09/27/17 08:50	09/28/17 17:40	1
Fluoranthene	460		40	7.5	ug/Kg	☼	09/27/17 08:50	09/28/17 17:40	1
Fluorene	16 J		40	5.7	ug/Kg	☼	09/27/17 08:50	09/28/17 17:40	1
Hexachlorobenzene	<82		82	9.4	ug/Kg	☼	09/27/17 08:50	09/28/17 17:40	1
Hexachlorobutadiene	<200		200	64	ug/Kg	☼	09/27/17 08:50	09/28/17 17:40	1
Hexachlorocyclopentadiene	<820		820	230	ug/Kg	☼	09/27/17 08:50	09/28/17 17:40	1
Hexachloroethane	<200		200	61	ug/Kg	☼	09/27/17 08:50	09/28/17 17:40	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134433-1

Client Sample ID: FH-17(5-10)-092117

Lab Sample ID: 500-134433-5

Date Collected: 09/21/17 11:22

Matrix: Solid

Date Received: 09/21/17 16:15

Percent Solids: 81.5

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	78		40	10	ug/Kg	☼	09/27/17 08:50	09/28/17 17:40	1
Isophorone	<200		200	45	ug/Kg	☼	09/27/17 08:50	09/28/17 17:40	1
Naphthalene	<40		40	6.2	ug/Kg	☼	09/27/17 08:50	09/28/17 17:40	1
Nitrobenzene	<40		40	10	ug/Kg	☼	09/27/17 08:50	09/28/17 17:40	1
N-Nitrosodi-n-propylamine	<82		82	49	ug/Kg	☼	09/27/17 08:50	09/28/17 17:40	1
N-Nitrosodiphenylamine	<200		200	48	ug/Kg	☼	09/27/17 08:50	09/28/17 17:40	1
Pentachlorophenol	<820		820	650	ug/Kg	☼	09/27/17 08:50	09/28/17 17:40	1
Phenanthrene	250		40	5.6	ug/Kg	☼	09/27/17 08:50	09/28/17 17:40	1
Phenol	<200		200	90	ug/Kg	☼	09/27/17 08:50	09/28/17 17:40	1
Pyrene	380		40	8.0	ug/Kg	☼	09/27/17 08:50	09/28/17 17:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	80		25 - 139				09/27/17 08:50	09/28/17 17:40	1
2-Fluorobiphenyl	93		44 - 121				09/27/17 08:50	09/28/17 17:40	1
2-Fluorophenol	126		46 - 133				09/27/17 08:50	09/28/17 17:40	1
Nitrobenzene-d5	97		41 - 120				09/27/17 08:50	09/28/17 17:40	1
Phenol-d5	112		46 - 125				09/27/17 08:50	09/28/17 17:40	1
Terphenyl-d14	97		35 - 160				09/27/17 08:50	09/28/17 17:40	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/28/17 15:42	09/29/17 12:32	1
Barium	0.37	J	0.50	0.050	mg/L		09/28/17 15:42	09/29/17 12:32	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/28/17 15:42	09/29/17 12:32	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/28/17 15:42	09/29/17 12:32	1
Chromium	<0.025		0.025	0.010	mg/L		09/28/17 15:42	09/29/17 12:32	1
Cobalt	0.024	J	0.025	0.010	mg/L		09/28/17 15:42	09/29/17 12:32	1
Copper	<0.025		0.025	0.010	mg/L		09/28/17 15:42	09/29/17 12:32	1
Iron	<0.40		0.40	0.20	mg/L		09/28/17 15:42	09/29/17 12:32	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/28/17 15:42	09/29/17 12:32	1
Manganese	7.0		0.025	0.010	mg/L		09/28/17 15:42	09/29/17 12:32	1
Nickel	0.025		0.025	0.010	mg/L		09/28/17 15:42	09/29/17 12:32	1
Selenium	<0.050		0.050	0.020	mg/L		09/28/17 15:42	09/29/17 12:32	1
Silver	<0.025		0.025	0.010	mg/L		09/28/17 15:42	09/29/17 12:32	1
Zinc	0.020	J	0.50	0.020	mg/L		09/28/17 15:42	09/29/17 12:32	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		09/28/17 06:53	09/28/17 17:38	1
Barium	0.059	J	0.50	0.050	mg/L		09/28/17 06:53	09/28/17 17:38	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/28/17 06:53	09/28/17 17:38	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/28/17 06:53	09/28/17 17:38	1
Chromium	0.012	J	0.025	0.010	mg/L		09/28/17 06:53	09/28/17 17:38	1
Cobalt	<0.025		0.025	0.010	mg/L		09/28/17 06:53	09/28/17 17:38	1
Copper	0.042		0.025	0.010	mg/L		09/28/17 06:53	09/28/17 17:38	1
Iron	9.5		0.40	0.20	mg/L		09/28/17 06:53	09/28/17 17:38	1
Lead	0.011		0.0075	0.0075	mg/L		09/28/17 06:53	09/28/17 17:38	1
Manganese	0.068		0.025	0.010	mg/L		09/28/17 06:53	09/28/17 17:38	1
Nickel	<0.025		0.025	0.010	mg/L		09/28/17 06:53	09/28/17 17:38	1
Selenium	<0.050		0.050	0.020	mg/L		09/28/17 06:53	09/28/17 17:38	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134433-1

Client Sample ID: FH-17(5-10)-092117

Lab Sample ID: 500-134433-5

Date Collected: 09/21/17 11:22

Matrix: Solid

Date Received: 09/21/17 16:15

Percent Solids: 81.5

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		09/28/17 06:53	09/28/17 17:38	1
Zinc	0.044	J	0.50	0.020	mg/L		09/28/17 06:53	09/28/17 17:38	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.36	J	1.1	0.22	mg/Kg	☼	09/26/17 16:00	09/27/17 19:33	1
Arsenic	9.2		0.56	0.19	mg/Kg	☼	09/26/17 16:00	09/27/17 19:33	1
Barium	49		0.56	0.064	mg/Kg	☼	09/26/17 16:00	09/27/17 19:33	1
Beryllium	0.73		0.22	0.052	mg/Kg	☼	09/26/17 16:00	09/27/17 19:33	1
Cadmium	0.19	B	0.11	0.020	mg/Kg	☼	09/26/17 16:00	09/27/17 19:33	1
Calcium	23000	B	11	1.9	mg/Kg	☼	09/26/17 16:00	09/27/17 19:33	1
Chromium	17		0.56	0.28	mg/Kg	☼	09/26/17 16:00	09/27/17 19:33	1
Cobalt	14		0.28	0.073	mg/Kg	☼	09/26/17 16:00	09/27/17 19:33	1
Copper	27		0.56	0.16	mg/Kg	☼	09/26/17 16:00	09/27/17 19:33	1
Iron	20000		11	5.8	mg/Kg	☼	09/26/17 16:00	09/27/17 19:33	1
Lead	23		0.28	0.13	mg/Kg	☼	09/26/17 16:00	09/27/17 19:33	1
Magnesium	15000		5.6	2.8	mg/Kg	☼	09/26/17 16:00	09/27/17 19:33	1
Manganese	430		0.56	0.081	mg/Kg	☼	09/26/17 16:00	09/27/17 19:33	1
Nickel	31		0.56	0.16	mg/Kg	☼	09/26/17 16:00	09/27/17 19:33	1
Potassium	2100		28	9.9	mg/Kg	☼	09/26/17 16:00	09/27/17 19:33	1
Selenium	<0.56		0.56	0.33	mg/Kg	☼	09/26/17 16:00	09/27/17 19:33	1
Silver	<0.28		0.28	0.072	mg/Kg	☼	09/26/17 16:00	09/27/17 19:33	1
Sodium	110		56	8.3	mg/Kg	☼	09/26/17 16:00	09/27/17 19:33	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	09/26/17 16:00	09/27/17 19:33	1
Vanadium	25		0.28	0.066	mg/Kg	☼	09/26/17 16:00	09/27/17 19:33	1
Zinc	66		1.1	0.49	mg/Kg	☼	09/26/17 16:00	09/27/17 19:33	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		09/28/17 13:25	09/29/17 09:17	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		09/27/17 15:10	09/28/17 09:47	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	30		18	6.1	ug/Kg	☼	09/27/17 13:30	09/28/17 10:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.1		0.20	0.20	SU			09/28/17 15:11	1

Definitions/Glossary

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134433-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

Qualifier	Qualifier Description
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
*	ISTD response or retention time outside acceptable 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.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

Glossary

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

Accreditation/Certification Summary

Client: Weston Solutions, Inc.

TestAmerica Job ID: 500-134433-1

Project/Site: IDOT - Eisenhower Expressway - WO 062

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Illinois	NELAP	5	100201	04-30-19

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

Analysis Method	Prep Method	Matrix	Analyte
8260B	5035	Solid	1,3-Dichloropropene, Total
9045D		Solid	pH
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 60
Phone: 708.534.5200 Fax: 708.534



500-134433 COC

Report To (optional)
Contact: Babu
Company: Weston
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: _____

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

Chain of Custody Record

Lab Job #: 500-134433
Chain of Custody Number: _____
Page 3 of 5
Temperature of Coolant: 2, 4, 30, 21, 37, 42

Client		Client Project #		Preservative		Parameter					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	
Project Name		Lab Project #		# of Containers	Matrix	VOC	SVOC	Total Metals	Temp/Spec Metals	pH		
Project Location/State		Lab PM										
Lab ID	MS/MSD	Sample ID	Date	Time							Comments	
1		FH-15(20-25)-092117	9/21/17	1008	6	S	X	X	X	X	X	
2		FH-15(20-25)-092117D		1008	6	S	X	X	X	X	X	
3		FH-15(25-30)-092117		1027	6	S	X	X	X	X	X	
4		FH-17(05)-092117		1115	6	S	X	X	X	X	X	
5		FH-17(5-10)-092117		1122	6	S	X	X	X	X	X	
6		FH-17(10-15)-092117		1135	6	S	X	X	X	X	X	
7		FH-17(15-20)-092117		1143	6	S	X	X	X	X	X	
8		FH-17(20-25)-092117		1155	6	S	X	X	X	X	X	
9		FH-17(25-30)-092117		1210	6	S	X	X	X	X	X	
10		FH-17(30-35)-092117		1240	6	S	X	X	X	X	X	

Turnaround Time Required (Business Days)

___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days 10 Days ___ 15 Days ___ Other

Requested Due Date _____

Sample Disposal

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

Relinquished By <u>Kalany</u> Company <u>Weston</u> Date <u>9/21/17</u> Time <u>1514</u>	Received By <u>J. Neal</u> Company <u>TA</u> Date <u>9/21/17</u> Time <u>1515</u>
Relinquished By <u>J. Neal</u> Company <u>TA</u> Date <u>9/21/17</u> Time <u>1615</u>	Received By <u>Shirley</u> Company <u>TA</u> Date <u>9/22/17</u> Time <u>0730</u>
Relinquished By _____ Company _____ Date _____ Time _____	Received By _____ Company _____ Date _____ Time _____

Lab Courier: TA
Shipped: _____
Hand Delivered: _____

Matrix Key

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

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: Babin
Company: Weston Solutions
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: _____

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

Chain of Custody Record

Lab Job #: 500-134433
Chain of Custody Number: _____
Page 4 of 5
Temperature °C of Cooler: 2, 4, 3, 0, 2, 1, 3, 7, 4, 2

Client		Client Project #		Preservative		Parameter					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		
Project Name		Lab Project #		Matrix		VOC	SVOC	Total Metals	TOUP/SELP Metals	PH			
Project Location/State		Lab PM		# of Containers	Matrix								
Sampler		Date											
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix						Comments	
11		FH-20(0-5)-092117	9/21/17	1318	6	S	X	X	X	X	X		
12		FH-20(0-5)-092117D		1318	6	S	X	X	X	X	X		
13		FH-20(5-10)-092117		1328	6	S	X	X	X	X	X		
14		FH-20(10-15)-092117		1337	6	S	X	X	X	X	X		
15		FH-20(15-20)-092117		1347	6	S	X	X	X	X	X		
16		FH-20(20-25)-092117		1355	6	S	X	X	X	X	X		
17		FH-21(0-5)-092117		1408	6	S	X	X	X	X	X		
18		FH-21(5-10)-092117		1416	6	S	X	X	X	X	X		
19		FH-21(10-15)-092117		1425	6	S	X	X	X	X	X		
20		FH-21(15-20)-092117		1433	6	S	X	X	X	X	X		

Turnaround Time Required (Business Days)

___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days 10 Days ___ 15 Days ___ Other

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: <u>Rabin</u> Company: <u>Weston</u> Date: <u>9/21/17</u> Time: <u>1514</u>	Received By: <u>R. Neal</u> Company: <u>TA</u> Date: <u>9/21/17</u> Time: <u>1514</u>
Relinquished By: <u>R. Neal</u> Company: <u>TA</u> Date: <u>9/21/17</u> Time: <u>1815</u>	Received By: <u>Shirley</u> Company: <u>TA-CHL</u> Date: <u>9/22/17</u> Time: <u>0730</u>
Relinquished By: _____ Company: _____ Date: _____ Time: _____	Received By: _____ Company: _____ Date: _____ Time: _____

Lab Courier: TA
Shipped: _____
Hand Delivered: _____

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

Client Comments: _____

Lab Comments: _____



Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAI (I-290)-Des Plaines River Pump Station #4 Office Phone Number, if available: _____

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

863 Des Plaines Ave. (ISGS Site No. 2215V-1 - INSIDE EARTH RETENTION SYSTEM BELOW 595 FT ASL)

City: Forest Park State: IL Zip Code: _____

County: Cook Township: _____

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

Latitude: 41.87151 Longitude: - 87.82642

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

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

Estimated Volume of debris (cu. Yd.): 18,604

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: _____

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@illinois.gov

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: _____

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@illinois.gov

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

Uncontaminated Soil Certification

III. Basis for Certification and Attachments

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

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

LOCATIONS FH-11, FH-13, AND FH-16 WERE SAMPLED ADJACENT TO ISGS SITE No. 2215V-1 - BELOW 595 FT ASL. 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: 500-134187-1, JOB ID: 500-134188-1, JOB ID: 500-134344-1, AND JOB ID: 500-134432-1. 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, Margaret Doheny-Skubic, 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.

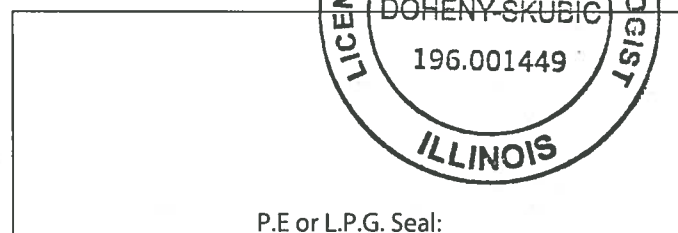
Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Weston Solutions, Inc.
Street Address: 300 Circle Plaza; Suite 202
City: Mundelein State: IL Zip Code: 60060
Phone: (224) 864-7234

Margaret Doheny-Skubic, P.G.
Printed Name:


Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Apr 22, 2019
Date:



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

Summary Table of ISGS Site No. 2215V-1
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results - INSIDE EARTH RETENTION SYSTEM - BELOW 595 FT ASL
Illinois Department of Transportation
FAI (I-290): Eisenhower Expressway - Des Plaines River Pump Station #4
Forest Park, Cook County, Illinois

Field Sample ID	FH-11(38-46)-091817	FH-13(38-46)-092017	FH-13(46-54)-092017	FH-13(54-62)-092017	FH-13(62-69)-092017	Soil Reference Concentrations ^A
Sample Date	9/18/2017	9/20/2017	9/20/2017	9/20/2017	9/20/2017	
Location ID	FH-11	FH-13	FH-13	FH-13	FH-13	
Depth	38 - 46	38 - 46	46 - 54	54 - 62	62 - 69	
ISGS Site No.	2215V-1	2215V-1	2215V-1	2215V-1	2215V-1	
Parameter						
Laboratory pH (s.u.)	8.2 H	8.1	8.2	7.8	8.2	<6.25,>9.0
VOCs (ug/kg)						
Acetone	ND	ND	17	26 J	23 J	25000
SVOCs (ug/kg)						
2-Methylnaphthalene	ND	ND	7.6 J	53 J	14 J	---
Acenaphthene	26 J	ND	6.9 J	7.5 J	11 J	570000
Acenaphthylene	ND	ND	ND	7.2 J	ND	---
Anthracene	ND	ND	ND	ND	ND	1.20E+07
Benzo(g,h,i)perylene	17 J	ND	ND	ND	ND	---
bis(2-Ethylhexyl)phthalate	ND	ND	ND	ND	96 J	46000
Chrysene	ND	34 J	14 J	34 J	28 J	88000
Fluoranthene	8.1 J	20 J	ND	7.1 J	11 J	3100000
Fluorene	14 J	8 J	ND	ND	ND	560000
Naphthalene, SVOC	ND	ND	ND	13 J	6.1 J	1800
Phenanthrene	47	83	29 J	110	49	---
Pyrene	28 J	ND	ND	ND	ND	2300000
Total Metals (mg/kg)						
Antimony, Total	ND	ND	ND	0.35 J	0.35 J	5
Arsenic, Total	4.9	6.1	12	7.8	10	11.3 / 13
Barium, Total	39	39	23	26	13	1500
Beryllium, Total	0.61	0.77	0.39	0.49	0.27	22
Cadmium, Total	ND	ND	ND	0.11	0.13	5.2
Calcium, Total	60000 B	74000 B	87000 B	68000 J-	69000 B	---
Chromium, Total	16	18	10	14	8.2	21
Cobalt, Total	12	15	12	15	11	20
Copper, Total	20	27	30	28	27	2900
Iron, Total	18000	19000 B	18000	19000 J+	15000 B	15000 / 15900
Lead, Total	12	14	16	16 J-	15	107
Magnesium, Total	23000 B	23000	28000	25000 J+	30000 B	325000
Manganese, Total	330	330	360	350 J-	340 B	630 / 636
Mercury, Total	ND	0.021	0.021	0.033	0.032	0.89
Nickel, Total	30	37	27	35	24	100
Potassium, Total	2700	3600	1700	2000 J+	1000	---
Selenium, Total	ND	ND	ND	0.5 J	ND	1.3
Silver, Total	ND	ND	ND	ND	ND	4.4
Sodium, Total	210	200	160	170	160	---
Thallium, Total	ND	ND	0.74	0.26 J	0.64	2.6
Vanadium, Total	18	21	13	15	9.7	550
Zinc, Total	55	52	78	51	43	5100
TCLP Metals (mg/l)						
Barium, TCLP	0.45 J	0.65	0.32 J	0.42 J	0.27 J	2
Cadmium, TCLP	ND	0.0025 J	ND	ND	ND	0.005
Cobalt, TCLP	0.013 J	0.031	0.035	0.036	0.03	1
Copper, TCLP	ND	ND	ND	0.11	0.018 J	0.65
Iron, TCLP	ND	ND	ND	ND	ND	5
Manganese, TCLP	2.4	2.7	2.4	2.5	2.8	0.15
Nickel, TCLP	0.029	0.072	0.067	0.077	0.059	0.1
Zinc, TCLP	ND	ND	ND	0.081 J	0.045 J	5

Summary Table of ISGS Site No. 2215V-1
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results - INSIDE EARTH RETENTION SYSTEM - BELOW 595 FT ASL
Illinois Department of Transportation
FAI (I-290): Eisenhower Expressway - Des Plaines River Pump Station #4
Forest Park, Cook County, Illinois

Field Sample ID	FH-11(38-46)-091817	FH-13(38-46)-092017	FH-13(46-54)-092017	FH-13(54-62)-092017	FH-13(62-69)-092017	Soil Reference Concentrations ^A
Sample Date	9/18/2017	9/20/2017	9/20/2017	9/20/2017	9/20/2017	
Location ID	FH-11	FH-13	FH-13	FH-13	FH-13	
Depth	38 - 46	38 - 46	46 - 54	54 - 62	62 - 69	
ISGS Site No.	2215V-1	2215V-1	2215V-1	2215V-1	2215V-1	
Parameter						
SPLP Metals (mg/l)						
Barium, SPLP	0.054 J	0.21 J	0.099 J	ND	ND	2
Chromium, SPLP	0.014 J	0.042	ND	ND	ND	0.1
Cobalt, SPLP	ND	0.021 J	ND	ND	ND	1
Copper, SPLP	ND	0.059	0.048	ND	ND	0.65
Iron, SPLP	7.6 J+	25	2.9	1.4	2.3	5
Lead, SPLP	ND	0.019	ND	ND	ND	0.0075
Manganese, SPLP	0.1	0.44	0.097	0.051	0.054	0.15
Nickel, SPLP	0.012 J	0.049	ND	ND	ND	0.1
Zinc, SPLP	0.022 J	0.13 J	0.06 J	0.025 J	ND	5

Summary Table of ISGS Site No. 2215V-1
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results - INSIDE EARTH RETENTION SYSTEM - BELOW 595 FT ASL
Illinois Department of Transportation
FAI (I-290): Eisenhower Expressway - Des Plaines River Pump Station #4
Forest Park, Cook County, Illinois

Field Sample ID	FH-16(38-46)-091817	FH-16(46-54)-091817	FH-16(54-62)-091817	FH-16(62-70)-091817	FH-16(70-73)-091817	Soil Reference Concentrations ^A
Sample Date	9/18/2017	9/18/2017	9/18/2017	9/18/2017	9/18/2017	
Location ID	FH-16	FH-16	FH-16	FH-16	FH-16	
Depth	38 - 46	46 - 54	54 - 62	62 - 70	70 - 73	
ISGS Site No.	2215V-1	2215V-1	2215V-1	2215V-1	2215V-1	
Parameter						
Laboratory pH (s.u.)	7.9	7.9	8.1	8.1	7.9	<6.25,>9.0
VOCs (ug/kg)						
Acetone	37	40	34	39 J+	29	25000
SVOCs (ug/kg)						
2-Methylnaphthalene	ND	52 J	ND	ND	ND	---
Acenaphthene	29 J	29 J	29 J	19 J	ND	570000
Acenaphthylene	ND	ND	ND	ND	ND	---
Anthracene	6.2 J	ND	7.9 J	ND	ND	1.20E+07
Benzo(g,h,i)perylene	ND	ND	ND	ND	ND	---
bis(2-Ethylhexyl)phthalate	ND	ND	ND	ND	ND	46000
Chrysene	36	52	42	48	19 J	88000
Fluoranthene	24 J	ND	7.7 J	ND	ND	3100000
Fluorene	ND	ND	ND	11 J	ND	560000
Naphthalene, SVOC	ND	13 J	ND	ND	ND	1800
Phenanthrene	68	110	58	62	11 J	---
Pyrene	ND	ND	ND	ND	ND	2300000
Total Metals (mg/kg)						
Antimony, Total	ND	ND	ND	ND	ND	5
Arsenic, Total	12	9.7	9.3	12	13	11.3 / 13
Barium, Total	14	27	27	25	16	1500
Beryllium, Total	0.32	0.51	0.51	0.47	0.28	22
Cadmium, Total	ND	ND	ND	ND	ND	5.2
Calcium, Total	72000 B	64000 B	66000 B	68000 B	89000 B	---
Chromium, Total	8.4	14	14	12	7.3	21
Cobalt, Total	12	15	15	16	12	20
Copper, Total	34	36	32	36	36	2900
Iron, Total	17000 B	20000 B	19000 B	20000 B	18000 B	15000 / 15900
Lead, Total	17	17	16	18	16	107
Magnesium, Total	31000 B	26000 B	27000 B	28000 B	40000 B	325000
Manganese, Total	370 B	350 B	360 B	370 B	430 B	630 / 636
Mercury, Total	0.026	0.025	0.02	0.027	0.03	0.89
Nickel, Total	27	35	34	35	25	100
Potassium, Total	1400	2200	2300	2000	1200	---
Selenium, Total	ND	ND	0.38 J	ND	ND	1.3
Silver, Total	0.074 J	ND	ND	ND	0.08 J	4.4
Sodium, Total	140	170	180	160	150	---
Thallium, Total	0.41 J	0.57 J	ND	0.84	0.56	2.6
Vanadium, Total	11	16	16	15	9.8	550
Zinc, Total	70	57	55	49	54	5100
TCLP Metals (mg/l)						
Barium, TCLP	0.22 J	0.56	0.39 J	0.53	0.3 J	2
Cadmium, TCLP	ND	ND	ND	ND	ND	0.005
Cobalt, TCLP	0.024 J	0.027	0.015 J	0.025	0.018 J	1
Copper, TCLP	0.024 J	0.02 J	0.016 J	0.035	0.033	0.65
Iron, TCLP	ND	ND	0.22 J	ND	ND	5
Manganese, TCLP	2.2	2.8	2.7	2.7	2.3	0.15
Nickel, TCLP	0.046	0.054	0.033	0.049	0.038	0.1
Zinc, TCLP	0.029 J	0.028 J	0.084 J	0.055 J	0.049 J	5

Summary Table of ISGS Site No. 2215V-1
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results - INSIDE EARTH RETENTION SYSTEM - BELOW 595 FT ASL
Illinois Department of Transportation
FAI (I-290): Eisenhower Expressway - Des Plaines River Pump Station #4
Forest Park, Cook County, Illinois

Field Sample ID	FH-16(38-46)-091817	FH-16(46-54)-091817	FH-16(54-62)-091817	FH-16(62-70)-091817	FH-16(70-73)-091817	Soil Reference Concentrations ^A
Sample Date	9/18/2017	9/18/2017	9/18/2017	9/18/2017	9/18/2017	
Location ID	FH-16	FH-16	FH-16	FH-16	FH-16	
Depth	38 - 46	46 - 54	54 - 62	62 - 70	70 - 73	
ISGS Site No.	2215V-1	2215V-1	2215V-1	2215V-1	2215V-1	
Parameter						
SPLP Metals (mg/l)						
Barium, SPLP	0.14 J	0.17 J	0.15 J	0.14 J	ND	2
Chromium, SPLP	0.01 J	0.014 J	0.013 J	ND	ND	0.1
Cobalt, SPLP	ND	ND	ND	ND	ND	1
Copper, SPLP	0.066	0.047	0.061	0.033	ND	0.65
Iron, SPLP	1.7	4.5	4	1	0.3 J	5
Lead, SPLP	ND	0.0078	ND	ND	ND	0.0075
Manganese, SPLP	0.06	0.12	0.11	0.058	0.02 J	0.15
Nickel, SPLP	ND	0.013 J	0.014 J	ND	ND	0.1
Zinc, SPLP	0.1 J	0.095 J	0.11 J	0.083 J	ND	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.

ND - Constituent not detected above the reporting limit.

B - Constituent detected in the laboratory blank and investigative samples.

H - Analyte analyzed outside of hold time

J - Estimated concentration.

J+ - Estimated concentration, biased high.

J- - Estimated concentration, biased low.

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: 500-134187-1

Client Project/Site: IDOT - Eisenhower Expressway - WO 062

For:

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

Attn: Mr. S. Babusukumar



Authorized for release by:
9/26/2017 4:01:03 PM

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

LINKS

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results through
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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134187-1

Client Sample ID: FH-16(38-46)-091817

Lab Sample ID: 500-134187-9

Date Collected: 09/18/17 10:36

Matrix: Solid

Date Received: 09/18/17 17:35

Percent Solids: 87.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	37		15	6.5	ug/Kg	☼	09/19/17 08:37	09/20/17 16:31	1
Benzene	<1.5		1.5	0.38	ug/Kg	☼	09/19/17 08:37	09/20/17 16:31	1
Bromodichloromethane	<1.5		1.5	0.30	ug/Kg	☼	09/19/17 08:37	09/20/17 16:31	1
Bromoform	<1.5		1.5	0.43	ug/Kg	☼	09/19/17 08:37	09/20/17 16:31	1
Bromomethane	<3.7		3.7	1.4	ug/Kg	☼	09/19/17 08:37	09/20/17 16:31	1
Carbon disulfide	<3.7		3.7	0.77	ug/Kg	☼	09/19/17 08:37	09/20/17 16:31	1
Carbon tetrachloride	<1.5		1.5	0.43	ug/Kg	☼	09/19/17 08:37	09/20/17 16:31	1
Chlorobenzene	<1.5		1.5	0.55	ug/Kg	☼	09/19/17 08:37	09/20/17 16:31	1
Chloroethane	<3.7		3.7	1.1	ug/Kg	☼	09/19/17 08:37	09/20/17 16:31	1
Chloroform	<1.5		1.5	0.52	ug/Kg	☼	09/19/17 08:37	09/20/17 16:31	1
Chloromethane	<3.7		3.7	1.5	ug/Kg	☼	09/19/17 08:37	09/20/17 16:31	1
cis-1,2-Dichloroethene	<1.5		1.5	0.42	ug/Kg	☼	09/19/17 08:37	09/20/17 16:31	1
cis-1,3-Dichloropropene	<1.5		1.5	0.45	ug/Kg	☼	09/19/17 08:37	09/20/17 16:31	1
Dibromochloromethane	<1.5		1.5	0.49	ug/Kg	☼	09/19/17 08:37	09/20/17 16:31	1
1,1-Dichloroethane	<1.5		1.5	0.51	ug/Kg	☼	09/19/17 08:37	09/20/17 16:31	1
1,2-Dichloroethane	<3.7		3.7	1.2	ug/Kg	☼	09/19/17 08:37	09/20/17 16:31	1
1,1-Dichloroethene	<1.5		1.5	0.51	ug/Kg	☼	09/19/17 08:37	09/20/17 16:31	1
1,2-Dichloropropane	<1.5		1.5	0.38	ug/Kg	☼	09/19/17 08:37	09/20/17 16:31	1
1,3-Dichloropropene, Total	<1.5		1.5	0.52	ug/Kg	☼	09/19/17 08:37	09/20/17 16:31	1
Ethylbenzene	<1.5		1.5	0.71	ug/Kg	☼	09/19/17 08:37	09/20/17 16:31	1
2-Hexanone	<3.7		3.7	1.2	ug/Kg	☼	09/19/17 08:37	09/20/17 16:31	1
Methylene Chloride	<3.7		3.7	1.5	ug/Kg	☼	09/19/17 08:37	09/20/17 16:31	1
Methyl Ethyl Ketone	<3.7		3.7	1.6	ug/Kg	☼	09/19/17 08:37	09/20/17 16:31	1
methyl isobutyl ketone	<3.7		3.7	1.1	ug/Kg	☼	09/19/17 08:37	09/20/17 16:31	1
Methyl tert-butyl ether	<1.5		1.5	0.44	ug/Kg	☼	09/19/17 08:37	09/20/17 16:31	1
Styrene	<1.5		1.5	0.45	ug/Kg	☼	09/19/17 08:37	09/20/17 16:31	1
1,1,2,2-Tetrachloroethane	<1.5		1.5	0.47	ug/Kg	☼	09/19/17 08:37	09/20/17 16:31	1
Tetrachloroethene	<1.5		1.5	0.51	ug/Kg	☼	09/19/17 08:37	09/20/17 16:31	1
Toluene	<1.5		1.5	0.38	ug/Kg	☼	09/19/17 08:37	09/20/17 16:31	1
trans-1,2-Dichloroethene	<1.5		1.5	0.66	ug/Kg	☼	09/19/17 08:37	09/20/17 16:31	1
trans-1,3-Dichloropropene	<1.5		1.5	0.52	ug/Kg	☼	09/19/17 08:37	09/20/17 16:31	1
1,1,1-Trichloroethane	<1.5		1.5	0.50	ug/Kg	☼	09/19/17 08:37	09/20/17 16:31	1
1,1,2-Trichloroethane	<1.5		1.5	0.64	ug/Kg	☼	09/19/17 08:37	09/20/17 16:31	1
Trichloroethene	<1.5		1.5	0.50	ug/Kg	☼	09/19/17 08:37	09/20/17 16:31	1
Vinyl chloride	<1.5		1.5	0.66	ug/Kg	☼	09/19/17 08:37	09/20/17 16:31	1
Xylenes, Total	<3.0		3.0	0.48	ug/Kg	☼	09/19/17 08:37	09/20/17 16:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		75 - 131	09/19/17 08:37	09/20/17 16:31	1
Dibromofluoromethane	100		75 - 126	09/19/17 08:37	09/20/17 16:31	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	09/19/17 08:37	09/20/17 16:31	1
Toluene-d8 (Surr)	113		75 - 124	09/19/17 08:37	09/20/17 16:31	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	☼	09/22/17 08:26	09/25/17 20:18	1
1,2-Dichlorobenzene	<180		180	43	ug/Kg	☼	09/22/17 08:26	09/25/17 20:18	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	09/22/17 08:26	09/25/17 20:18	1
1,4-Dichlorobenzene	<180		180	47	ug/Kg	☼	09/22/17 08:26	09/25/17 20:18	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	09/22/17 08:26	09/25/17 20:18	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134187-1

Client Sample ID: FH-16(38-46)-091817

Lab Sample ID: 500-134187-9

Date Collected: 09/18/17 10:36

Matrix: Solid

Date Received: 09/18/17 17:35

Percent Solids: 87.0

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	☼	09/22/17 08:26	09/25/17 20:18	1
2,4,6-Trichlorophenol	<360		360	120	ug/Kg	☼	09/22/17 08:26	09/25/17 20:18	1
2,4-Dichlorophenol	<360		360	86	ug/Kg	☼	09/22/17 08:26	09/25/17 20:18	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	09/22/17 08:26	09/25/17 20:18	1
2,4-Dinitrophenol	<730		730	640	ug/Kg	☼	09/22/17 08:26	09/25/17 20:18	1
2,4-Dinitrotoluene	<180		180	58	ug/Kg	☼	09/22/17 08:26	09/25/17 20:18	1
2,6-Dinitrotoluene	<180		180	71	ug/Kg	☼	09/22/17 08:26	09/25/17 20:18	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	09/22/17 08:26	09/25/17 20:18	1
2-Chlorophenol	<180		180	62	ug/Kg	☼	09/22/17 08:26	09/25/17 20:18	1
2-Methylnaphthalene	<73		73	6.7	ug/Kg	☼	09/22/17 08:26	09/25/17 20:18	1
2-Methylphenol	<180		180	58	ug/Kg	☼	09/22/17 08:26	09/25/17 20:18	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	09/22/17 08:26	09/25/17 20:18	1
2-Nitrophenol	<360		360	86	ug/Kg	☼	09/22/17 08:26	09/25/17 20:18	1
3 & 4 Methylphenol	<180		180	61	ug/Kg	☼	09/22/17 08:26	09/25/17 20:18	1
3,3'-Dichlorobenzidine	<180		180	51	ug/Kg	☼	09/22/17 08:26	09/25/17 20:18	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	09/22/17 08:26	09/25/17 20:18	1
4,6-Dinitro-2-methylphenol	<730		730	290	ug/Kg	☼	09/22/17 08:26	09/25/17 20:18	1
4-Bromophenyl phenyl ether	<180		180	48	ug/Kg	☼	09/22/17 08:26	09/25/17 20:18	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	09/22/17 08:26	09/25/17 20:18	1
4-Chloroaniline	<730		730	170	ug/Kg	☼	09/22/17 08:26	09/25/17 20:18	1
4-Chlorophenyl phenyl ether	<180		180	42	ug/Kg	☼	09/22/17 08:26	09/25/17 20:18	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	09/22/17 08:26	09/25/17 20:18	1
4-Nitrophenol	<730		730	350	ug/Kg	☼	09/22/17 08:26	09/25/17 20:18	1
Acenaphthene	29 J		36	6.5	ug/Kg	☼	09/22/17 08:26	09/25/17 20:18	1
Acenaphthylene	<36		36	4.8	ug/Kg	☼	09/22/17 08:26	09/25/17 20:18	1
Anthracene	6.2 J		36	6.1	ug/Kg	☼	09/22/17 08:26	09/25/17 20:18	1
Benzo[a]anthracene	<36		36	4.9	ug/Kg	☼	09/22/17 08:26	09/25/17 20:18	1
Benzo[a]pyrene	<36		36	7.0	ug/Kg	☼	09/22/17 08:26	09/25/17 20:18	1
Benzo[b]fluoranthene	<36		36	7.8	ug/Kg	☼	09/22/17 08:26	09/25/17 20:18	1
Benzo[g,h,i]perylene	<36		36	12	ug/Kg	☼	09/22/17 08:26	09/25/17 20:18	1
Benzo[k]fluoranthene	<36		36	11	ug/Kg	☼	09/22/17 08:26	09/25/17 20:18	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	09/22/17 08:26	09/25/17 20:18	1
Bis(2-chloroethyl)ether	<180		180	54	ug/Kg	☼	09/22/17 08:26	09/25/17 20:18	1
Bis(2-ethylhexyl) phthalate	<180		180	66	ug/Kg	☼	09/22/17 08:26	09/25/17 20:18	1
Butyl benzyl phthalate	<180		180	69	ug/Kg	☼	09/22/17 08:26	09/25/17 20:18	1
Carbazole	<180		180	91	ug/Kg	☼	09/22/17 08:26	09/25/17 20:18	1
Chrysene	36		36	9.9	ug/Kg	☼	09/22/17 08:26	09/25/17 20:18	1
Dibenz(a,h)anthracene	<36		36	7.0	ug/Kg	☼	09/22/17 08:26	09/25/17 20:18	1
Dibenzofuran	<180		180	43	ug/Kg	☼	09/22/17 08:26	09/25/17 20:18	1
Diethyl phthalate	<180		180	62	ug/Kg	☼	09/22/17 08:26	09/25/17 20:18	1
Dimethyl phthalate	<180		180	47	ug/Kg	☼	09/22/17 08:26	09/25/17 20:18	1
Di-n-butyl phthalate	<180		180	55	ug/Kg	☼	09/22/17 08:26	09/25/17 20:18	1
Di-n-octyl phthalate	<180		180	59	ug/Kg	☼	09/22/17 08:26	09/25/17 20:18	1
Fluoranthene	24 J		36	6.7	ug/Kg	☼	09/22/17 08:26	09/25/17 20:18	1
Fluorene	<36		36	5.1	ug/Kg	☼	09/22/17 08:26	09/25/17 20:18	1
Hexachlorobenzene	<73		73	8.4	ug/Kg	☼	09/22/17 08:26	09/25/17 20:18	1
Hexachlorobutadiene	<180		180	57	ug/Kg	☼	09/22/17 08:26	09/25/17 20:18	1
Hexachlorocyclopentadiene	<730		730	210	ug/Kg	☼	09/22/17 08:26	09/25/17 20:18	1
Hexachloroethane	<180		180	55	ug/Kg	☼	09/22/17 08:26	09/25/17 20:18	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134187-1

Client Sample ID: FH-16(38-46)-091817

Lab Sample ID: 500-134187-9

Date Collected: 09/18/17 10:36

Matrix: Solid

Date Received: 09/18/17 17:35

Percent Solids: 87.0

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	<36		36	9.4	ug/Kg	☼	09/22/17 08:26	09/25/17 20:18	1
Isophorone	<180		180	41	ug/Kg	☼	09/22/17 08:26	09/25/17 20:18	1
Naphthalene	<36		36	5.6	ug/Kg	☼	09/22/17 08:26	09/25/17 20:18	1
Nitrobenzene	<36		36	9.1	ug/Kg	☼	09/22/17 08:26	09/25/17 20:18	1
N-Nitrosodi-n-propylamine	<73		73	44	ug/Kg	☼	09/22/17 08:26	09/25/17 20:18	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	09/22/17 08:26	09/25/17 20:18	1
Pentachlorophenol	<730		730	580	ug/Kg	☼	09/22/17 08:26	09/25/17 20:18	1
Phenanthrene	68		36	5.1	ug/Kg	☼	09/22/17 08:26	09/25/17 20:18	1
Phenol	<180		180	81	ug/Kg	☼	09/22/17 08:26	09/25/17 20:18	1
Pyrene	<36		36	7.2	ug/Kg	☼	09/22/17 08:26	09/25/17 20:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	59		25 - 139	09/22/17 08:26	09/25/17 20:18	1
2-Fluorobiphenyl	96		44 - 121	09/22/17 08:26	09/25/17 20:18	1
2-Fluorophenol	120		46 - 133	09/22/17 08:26	09/25/17 20:18	1
Nitrobenzene-d5	100		41 - 120	09/22/17 08:26	09/25/17 20:18	1
Phenol-d5	111		46 - 125	09/22/17 08:26	09/25/17 20:18	1
Terphenyl-d14	113		35 - 160	09/22/17 08:26	09/25/17 20:18	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		09/20/17 08:27	09/20/17 23:45	1
Barium	0.22	J	0.50	0.050	mg/L		09/20/17 08:27	09/20/17 23:45	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/20/17 08:27	09/20/17 23:45	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/20/17 08:27	09/20/17 23:45	1
Chromium	<0.025		0.025	0.010	mg/L		09/20/17 08:27	09/20/17 23:45	1
Cobalt	0.024	J	0.025	0.010	mg/L		09/20/17 08:27	09/20/17 23:45	1
Copper	0.024	J	0.025	0.010	mg/L		09/20/17 08:27	09/20/17 23:45	1
Iron	<0.40		0.40	0.20	mg/L		09/20/17 08:27	09/20/17 23:45	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/20/17 08:27	09/20/17 23:45	1
Manganese	2.2		0.025	0.010	mg/L		09/20/17 08:27	09/20/17 23:45	1
Nickel	0.046		0.025	0.010	mg/L		09/20/17 08:27	09/20/17 23:45	1
Selenium	<0.050		0.050	0.020	mg/L		09/20/17 08:27	09/20/17 23:45	1
Silver	<0.025		0.025	0.010	mg/L		09/20/17 08:27	09/20/17 23:45	1
Zinc	0.029	J	0.50	0.020	mg/L		09/20/17 08:27	09/20/17 23:45	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		09/20/17 16:52	09/21/17 16:51	1
Barium	0.14	J	0.50	0.050	mg/L		09/20/17 16:52	09/21/17 16:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/20/17 16:52	09/21/17 16:51	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/20/17 16:52	09/21/17 16:51	1
Chromium	0.010	J	0.025	0.010	mg/L		09/20/17 16:52	09/21/17 16:51	1
Cobalt	<0.025		0.025	0.010	mg/L		09/20/17 16:52	09/21/17 16:51	1
Copper	0.066		0.025	0.010	mg/L		09/20/17 16:52	09/21/17 16:51	1
Iron	1.7		0.40	0.20	mg/L		09/20/17 16:52	09/21/17 16:51	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/20/17 16:52	09/21/17 16:51	1
Manganese	0.060		0.025	0.010	mg/L		09/20/17 16:52	09/21/17 16:51	1
Nickel	<0.025		0.025	0.010	mg/L		09/20/17 16:52	09/21/17 16:51	1
Selenium	<0.050		0.050	0.020	mg/L		09/20/17 16:52	09/21/17 16:51	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134187-1

Client Sample ID: FH-16(38-46)-091817

Lab Sample ID: 500-134187-9

Date Collected: 09/18/17 10:36

Matrix: Solid

Date Received: 09/18/17 17:35

Percent Solids: 87.0

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		09/20/17 16:52	09/21/17 16:51	1
Zinc	0.10	J	0.50	0.020	mg/L		09/20/17 16:52	09/21/17 16:51	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.21	J B	1.1	0.21	mg/Kg	☼	09/19/17 15:43	09/20/17 12:08	1
Arsenic	12		0.54	0.19	mg/Kg	☼	09/19/17 15:43	09/20/17 12:08	1
Barium	14		0.54	0.062	mg/Kg	☼	09/19/17 15:43	09/20/17 12:08	1
Beryllium	0.32		0.22	0.051	mg/Kg	☼	09/19/17 15:43	09/20/17 12:08	1
Cadmium	0.28	B	0.11	0.020	mg/Kg	☼	09/19/17 15:43	09/20/17 12:08	1
Calcium	72000	B	110	18	mg/Kg	☼	09/19/17 15:43	09/20/17 13:13	10
Chromium	8.4		0.54	0.27	mg/Kg	☼	09/19/17 15:43	09/20/17 12:08	1
Cobalt	12		0.27	0.071	mg/Kg	☼	09/19/17 15:43	09/20/17 12:08	1
Copper	34		0.54	0.15	mg/Kg	☼	09/19/17 15:43	09/20/17 12:08	1
Iron	17000	B	11	5.6	mg/Kg	☼	09/19/17 15:43	09/20/17 12:08	1
Lead	17		0.27	0.13	mg/Kg	☼	09/19/17 15:43	09/20/17 12:08	1
Magnesium	31000	B	5.4	2.7	mg/Kg	☼	09/19/17 15:43	09/20/17 12:08	1
Manganese	370	B	0.54	0.079	mg/Kg	☼	09/19/17 15:43	09/20/17 12:08	1
Nickel	27		0.54	0.16	mg/Kg	☼	09/19/17 15:43	09/20/17 12:08	1
Potassium	1400		27	9.6	mg/Kg	☼	09/19/17 15:43	09/20/17 12:08	1
Selenium	<0.54		0.54	0.32	mg/Kg	☼	09/19/17 15:43	09/20/17 12:08	1
Silver	0.074	J	0.27	0.070	mg/Kg	☼	09/19/17 15:43	09/20/17 12:08	1
Sodium	140		54	8.0	mg/Kg	☼	09/19/17 15:43	09/20/17 12:08	1
Thallium	0.41	J	0.54	0.27	mg/Kg	☼	09/19/17 15:43	09/20/17 12:08	1
Vanadium	11		0.27	0.064	mg/Kg	☼	09/19/17 15:43	09/20/17 12:08	1
Zinc	70		1.1	0.48	mg/Kg	☼	09/19/17 15:43	09/20/17 12:08	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		09/20/17 16:00	09/21/17 11:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		09/20/17 16:00	09/21/17 12:11	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	26		18	5.9	ug/Kg	☼	09/21/17 16:00	09/22/17 13:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.9		0.20	0.20	SU			09/23/17 10:42	1

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134187-1

Client Sample ID: FH-16(46-54)-091817

Lab Sample ID: 500-134187-10

Date Collected: 09/18/17 11:22

Matrix: Solid

Date Received: 09/18/17 17:35

Percent Solids: 84.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	40		19	8.2	ug/Kg	☼	09/19/17 08:37	09/20/17 16:56	1
Benzene	<1.9		1.9	0.48	ug/Kg	☼	09/19/17 08:37	09/20/17 16:56	1
Bromodichloromethane	<1.9		1.9	0.38	ug/Kg	☼	09/19/17 08:37	09/20/17 16:56	1
Bromoform	<1.9		1.9	0.55	ug/Kg	☼	09/19/17 08:37	09/20/17 16:56	1
Bromomethane	<4.7		4.7	1.8	ug/Kg	☼	09/19/17 08:37	09/20/17 16:56	1
Carbon disulfide	<4.7		4.7	0.98	ug/Kg	☼	09/19/17 08:37	09/20/17 16:56	1
Carbon tetrachloride	<1.9		1.9	0.55	ug/Kg	☼	09/19/17 08:37	09/20/17 16:56	1
Chlorobenzene	<1.9		1.9	0.69	ug/Kg	☼	09/19/17 08:37	09/20/17 16:56	1
Chloroethane	<4.7		4.7	1.4	ug/Kg	☼	09/19/17 08:37	09/20/17 16:56	1
Chloroform	<1.9		1.9	0.65	ug/Kg	☼	09/19/17 08:37	09/20/17 16:56	1
Chloromethane	<4.7		4.7	1.9	ug/Kg	☼	09/19/17 08:37	09/20/17 16:56	1
cis-1,2-Dichloroethene	<1.9		1.9	0.53	ug/Kg	☼	09/19/17 08:37	09/20/17 16:56	1
cis-1,3-Dichloropropene	<1.9		1.9	0.57	ug/Kg	☼	09/19/17 08:37	09/20/17 16:56	1
Dibromochloromethane	<1.9		1.9	0.62	ug/Kg	☼	09/19/17 08:37	09/20/17 16:56	1
1,1-Dichloroethane	<1.9		1.9	0.64	ug/Kg	☼	09/19/17 08:37	09/20/17 16:56	1
1,2-Dichloroethane	<4.7		4.7	1.5	ug/Kg	☼	09/19/17 08:37	09/20/17 16:56	1
1,1-Dichloroethene	<1.9		1.9	0.65	ug/Kg	☼	09/19/17 08:37	09/20/17 16:56	1
1,2-Dichloropropane	<1.9		1.9	0.49	ug/Kg	☼	09/19/17 08:37	09/20/17 16:56	1
1,3-Dichloropropene, Total	<1.9		1.9	0.66	ug/Kg	☼	09/19/17 08:37	09/20/17 16:56	1
Ethylbenzene	<1.9		1.9	0.90	ug/Kg	☼	09/19/17 08:37	09/20/17 16:56	1
2-Hexanone	<4.7		4.7	1.5	ug/Kg	☼	09/19/17 08:37	09/20/17 16:56	1
Methylene Chloride	<4.7		4.7	1.9	ug/Kg	☼	09/19/17 08:37	09/20/17 16:56	1
Methyl Ethyl Ketone	<4.7		4.7	2.1	ug/Kg	☼	09/19/17 08:37	09/20/17 16:56	1
methyl isobutyl ketone	<4.7		4.7	1.4	ug/Kg	☼	09/19/17 08:37	09/20/17 16:56	1
Methyl tert-butyl ether	<1.9		1.9	0.55	ug/Kg	☼	09/19/17 08:37	09/20/17 16:56	1
Styrene	<1.9		1.9	0.57	ug/Kg	☼	09/19/17 08:37	09/20/17 16:56	1
1,1,2,2-Tetrachloroethane	<1.9		1.9	0.60	ug/Kg	☼	09/19/17 08:37	09/20/17 16:56	1
Tetrachloroethene	<1.9		1.9	0.64	ug/Kg	☼	09/19/17 08:37	09/20/17 16:56	1
Toluene	<1.9		1.9	0.47	ug/Kg	☼	09/19/17 08:37	09/20/17 16:56	1
trans-1,2-Dichloroethene	<1.9		1.9	0.83	ug/Kg	☼	09/19/17 08:37	09/20/17 16:56	1
trans-1,3-Dichloropropene	<1.9		1.9	0.66	ug/Kg	☼	09/19/17 08:37	09/20/17 16:56	1
1,1,1-Trichloroethane	<1.9		1.9	0.63	ug/Kg	☼	09/19/17 08:37	09/20/17 16:56	1
1,1,2-Trichloroethane	<1.9		1.9	0.81	ug/Kg	☼	09/19/17 08:37	09/20/17 16:56	1
Trichloroethene	<1.9		1.9	0.64	ug/Kg	☼	09/19/17 08:37	09/20/17 16:56	1
Vinyl chloride	<1.9		1.9	0.83	ug/Kg	☼	09/19/17 08:37	09/20/17 16:56	1
Xylenes, Total	<3.8		3.8	0.60	ug/Kg	☼	09/19/17 08:37	09/20/17 16:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		75 - 131	09/19/17 08:37	09/20/17 16:56	1
Dibromofluoromethane	99		75 - 126	09/19/17 08:37	09/20/17 16:56	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	09/19/17 08:37	09/20/17 16:56	1
Toluene-d8 (Surr)	103		75 - 124	09/19/17 08:37	09/20/17 16:56	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	☼	09/22/17 08:26	09/25/17 20:45	1
1,2-Dichlorobenzene	<200		200	47	ug/Kg	☼	09/22/17 08:26	09/25/17 20:45	1
1,3-Dichlorobenzene	<200		200	44	ug/Kg	☼	09/22/17 08:26	09/25/17 20:45	1
1,4-Dichlorobenzene	<200		200	50	ug/Kg	☼	09/22/17 08:26	09/25/17 20:45	1
2,2'-oxybis[1-chloropropane]	<200		200	45	ug/Kg	☼	09/22/17 08:26	09/25/17 20:45	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134187-1

Client Sample ID: FH-16(46-54)-091817

Lab Sample ID: 500-134187-10

Date Collected: 09/18/17 11:22

Matrix: Solid

Date Received: 09/18/17 17:35

Percent Solids: 84.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<390		390	89	ug/Kg	☼	09/22/17 08:26	09/25/17 20:45	1
2,4,6-Trichlorophenol	<390		390	130	ug/Kg	☼	09/22/17 08:26	09/25/17 20:45	1
2,4-Dichlorophenol	<390		390	93	ug/Kg	☼	09/22/17 08:26	09/25/17 20:45	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	09/22/17 08:26	09/25/17 20:45	1
2,4-Dinitrophenol	<790		790	690	ug/Kg	☼	09/22/17 08:26	09/25/17 20:45	1
2,4-Dinitrotoluene	<200		200	62	ug/Kg	☼	09/22/17 08:26	09/25/17 20:45	1
2,6-Dinitrotoluene	<200		200	77	ug/Kg	☼	09/22/17 08:26	09/25/17 20:45	1
2-Chloronaphthalene	<200		200	43	ug/Kg	☼	09/22/17 08:26	09/25/17 20:45	1
2-Chlorophenol	<200		200	67	ug/Kg	☼	09/22/17 08:26	09/25/17 20:45	1
2-Methylnaphthalene	52	J	79	7.2	ug/Kg	☼	09/22/17 08:26	09/25/17 20:45	1
2-Methylphenol	<200		200	63	ug/Kg	☼	09/22/17 08:26	09/25/17 20:45	1
2-Nitroaniline	<200		200	52	ug/Kg	☼	09/22/17 08:26	09/25/17 20:45	1
2-Nitrophenol	<390		390	92	ug/Kg	☼	09/22/17 08:26	09/25/17 20:45	1
3 & 4 Methylphenol	<200		200	65	ug/Kg	☼	09/22/17 08:26	09/25/17 20:45	1
3,3'-Dichlorobenzidine	<200		200	55	ug/Kg	☼	09/22/17 08:26	09/25/17 20:45	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	09/22/17 08:26	09/25/17 20:45	1
4,6-Dinitro-2-methylphenol	<790		790	310	ug/Kg	☼	09/22/17 08:26	09/25/17 20:45	1
4-Bromophenyl phenyl ether	<200		200	51	ug/Kg	☼	09/22/17 08:26	09/25/17 20:45	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	09/22/17 08:26	09/25/17 20:45	1
4-Chloroaniline	<790		790	180	ug/Kg	☼	09/22/17 08:26	09/25/17 20:45	1
4-Chlorophenyl phenyl ether	<200		200	46	ug/Kg	☼	09/22/17 08:26	09/25/17 20:45	1
4-Nitroaniline	<390		390	160	ug/Kg	☼	09/22/17 08:26	09/25/17 20:45	1
4-Nitrophenol	<790		790	370	ug/Kg	☼	09/22/17 08:26	09/25/17 20:45	1
Acenaphthene	29	J	39	7.0	ug/Kg	☼	09/22/17 08:26	09/25/17 20:45	1
Acenaphthylene	<39		39	5.1	ug/Kg	☼	09/22/17 08:26	09/25/17 20:45	1
Anthracene	<39		39	6.5	ug/Kg	☼	09/22/17 08:26	09/25/17 20:45	1
Benzo[a]anthracene	<39		39	5.2	ug/Kg	☼	09/22/17 08:26	09/25/17 20:45	1
Benzo[a]pyrene	<39		39	7.5	ug/Kg	☼	09/22/17 08:26	09/25/17 20:45	1
Benzo[b]fluoranthene	<39		39	8.4	ug/Kg	☼	09/22/17 08:26	09/25/17 20:45	1
Benzo[g,h,i]perylene	<39		39	13	ug/Kg	☼	09/22/17 08:26	09/25/17 20:45	1
Benzo[k]fluoranthene	<39		39	11	ug/Kg	☼	09/22/17 08:26	09/25/17 20:45	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	☼	09/22/17 08:26	09/25/17 20:45	1
Bis(2-chloroethyl)ether	<200		200	58	ug/Kg	☼	09/22/17 08:26	09/25/17 20:45	1
Bis(2-ethylhexyl) phthalate	<200		200	71	ug/Kg	☼	09/22/17 08:26	09/25/17 20:45	1
Butyl benzyl phthalate	<200		200	74	ug/Kg	☼	09/22/17 08:26	09/25/17 20:45	1
Carbazole	<200		200	97	ug/Kg	☼	09/22/17 08:26	09/25/17 20:45	1
Chrysene	52		39	11	ug/Kg	☼	09/22/17 08:26	09/25/17 20:45	1
Dibenz(a,h)anthracene	<39		39	7.5	ug/Kg	☼	09/22/17 08:26	09/25/17 20:45	1
Dibenzofuran	<200		200	46	ug/Kg	☼	09/22/17 08:26	09/25/17 20:45	1
Diethyl phthalate	<200		200	66	ug/Kg	☼	09/22/17 08:26	09/25/17 20:45	1
Dimethyl phthalate	<200		200	51	ug/Kg	☼	09/22/17 08:26	09/25/17 20:45	1
Di-n-butyl phthalate	<200		200	59	ug/Kg	☼	09/22/17 08:26	09/25/17 20:45	1
Di-n-octyl phthalate	<200		200	64	ug/Kg	☼	09/22/17 08:26	09/25/17 20:45	1
Fluoranthene	<39		39	7.2	ug/Kg	☼	09/22/17 08:26	09/25/17 20:45	1
Fluorene	<39		39	5.5	ug/Kg	☼	09/22/17 08:26	09/25/17 20:45	1
Hexachlorobenzene	<79		79	9.0	ug/Kg	☼	09/22/17 08:26	09/25/17 20:45	1
Hexachlorobutadiene	<200		200	61	ug/Kg	☼	09/22/17 08:26	09/25/17 20:45	1
Hexachlorocyclopentadiene	<790		790	220	ug/Kg	☼	09/22/17 08:26	09/25/17 20:45	1
Hexachloroethane	<200		200	59	ug/Kg	☼	09/22/17 08:26	09/25/17 20:45	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134187-1

Client Sample ID: FH-16(46-54)-091817

Lab Sample ID: 500-134187-10

Date Collected: 09/18/17 11:22

Matrix: Solid

Date Received: 09/18/17 17:35

Percent Solids: 84.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<39		39	10	ug/Kg	☼	09/22/17 08:26	09/25/17 20:45	1
Isophorone	<200		200	44	ug/Kg	☼	09/22/17 08:26	09/25/17 20:45	1
Naphthalene	13	J	39	6.0	ug/Kg	☼	09/22/17 08:26	09/25/17 20:45	1
Nitrobenzene	<39		39	9.7	ug/Kg	☼	09/22/17 08:26	09/25/17 20:45	1
N-Nitrosodi-n-propylamine	<79		79	48	ug/Kg	☼	09/22/17 08:26	09/25/17 20:45	1
N-Nitrosodiphenylamine	<200		200	46	ug/Kg	☼	09/22/17 08:26	09/25/17 20:45	1
Pentachlorophenol	<790		790	630	ug/Kg	☼	09/22/17 08:26	09/25/17 20:45	1
Phenanthrene	110		39	5.4	ug/Kg	☼	09/22/17 08:26	09/25/17 20:45	1
Phenol	<200		200	87	ug/Kg	☼	09/22/17 08:26	09/25/17 20:45	1
Pyrene	<39		39	7.7	ug/Kg	☼	09/22/17 08:26	09/25/17 20:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	53		25 - 139				09/22/17 08:26	09/25/17 20:45	1
2-Fluorobiphenyl	92		44 - 121				09/22/17 08:26	09/25/17 20:45	1
2-Fluorophenol	115		46 - 133				09/22/17 08:26	09/25/17 20:45	1
Nitrobenzene-d5	98		41 - 120				09/22/17 08:26	09/25/17 20:45	1
Phenol-d5	108		46 - 125				09/22/17 08:26	09/25/17 20:45	1
Terphenyl-d14	116		35 - 160				09/22/17 08:26	09/25/17 20:45	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		09/20/17 08:27	09/20/17 23:50	1
Barium	0.56		0.50	0.050	mg/L		09/20/17 08:27	09/20/17 23:50	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/20/17 08:27	09/20/17 23:50	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/20/17 08:27	09/20/17 23:50	1
Chromium	<0.025		0.025	0.010	mg/L		09/20/17 08:27	09/20/17 23:50	1
Cobalt	0.027		0.025	0.010	mg/L		09/20/17 08:27	09/20/17 23:50	1
Copper	0.020	J	0.025	0.010	mg/L		09/20/17 08:27	09/20/17 23:50	1
Iron	<0.40		0.40	0.20	mg/L		09/20/17 08:27	09/20/17 23:50	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/20/17 08:27	09/20/17 23:50	1
Manganese	2.8		0.025	0.010	mg/L		09/20/17 08:27	09/20/17 23:50	1
Nickel	0.054		0.025	0.010	mg/L		09/20/17 08:27	09/20/17 23:50	1
Selenium	<0.050		0.050	0.020	mg/L		09/20/17 08:27	09/20/17 23:50	1
Silver	<0.025		0.025	0.010	mg/L		09/20/17 08:27	09/20/17 23:50	1
Zinc	0.028	J	0.50	0.020	mg/L		09/20/17 08:27	09/20/17 23:50	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		09/20/17 16:52	09/21/17 16:55	1
Barium	0.17	J	0.50	0.050	mg/L		09/20/17 16:52	09/21/17 16:55	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/20/17 16:52	09/21/17 16:55	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/20/17 16:52	09/21/17 16:55	1
Chromium	0.014	J	0.025	0.010	mg/L		09/20/17 16:52	09/21/17 16:55	1
Cobalt	<0.025		0.025	0.010	mg/L		09/20/17 16:52	09/21/17 16:55	1
Copper	0.047		0.025	0.010	mg/L		09/20/17 16:52	09/21/17 16:55	1
Iron	4.5		0.40	0.20	mg/L		09/20/17 16:52	09/21/17 16:55	1
Lead	0.0078		0.0075	0.0075	mg/L		09/20/17 16:52	09/21/17 16:55	1
Manganese	0.12		0.025	0.010	mg/L		09/20/17 16:52	09/21/17 16:55	1
Nickel	0.013	J	0.025	0.010	mg/L		09/20/17 16:52	09/21/17 16:55	1
Selenium	<0.050		0.050	0.020	mg/L		09/20/17 16:52	09/21/17 16:55	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134187-1

Client Sample ID: FH-16(46-54)-091817

Lab Sample ID: 500-134187-10

Date Collected: 09/18/17 11:22

Matrix: Solid

Date Received: 09/18/17 17:35

Percent Solids: 84.3

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		09/20/17 16:52	09/21/17 16:55	1
Zinc	0.095	J	0.50	0.020	mg/L		09/20/17 16:52	09/21/17 16:55	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.22	mg/Kg	☼	09/19/17 15:43	09/20/17 12:12	1
Arsenic	9.7		0.58	0.20	mg/Kg	☼	09/19/17 15:43	09/20/17 12:12	1
Barium	27		0.58	0.066	mg/Kg	☼	09/19/17 15:43	09/20/17 12:12	1
Beryllium	0.51		0.23	0.054	mg/Kg	☼	09/19/17 15:43	09/20/17 12:12	1
Cadmium	0.17	B	0.12	0.021	mg/Kg	☼	09/19/17 15:43	09/20/17 12:12	1
Calcium	64000	B	120	20	mg/Kg	☼	09/19/17 15:43	09/20/17 13:17	10
Chromium	14		0.58	0.28	mg/Kg	☼	09/19/17 15:43	09/20/17 12:12	1
Cobalt	15		0.29	0.075	mg/Kg	☼	09/19/17 15:43	09/20/17 12:12	1
Copper	36		0.58	0.16	mg/Kg	☼	09/19/17 15:43	09/20/17 12:12	1
Iron	20000	B	12	6.0	mg/Kg	☼	09/19/17 15:43	09/20/17 12:12	1
Lead	17		0.29	0.13	mg/Kg	☼	09/19/17 15:43	09/20/17 12:12	1
Magnesium	26000	B	5.8	2.9	mg/Kg	☼	09/19/17 15:43	09/20/17 12:12	1
Manganese	350	B	0.58	0.083	mg/Kg	☼	09/19/17 15:43	09/20/17 12:12	1
Nickel	35		0.58	0.17	mg/Kg	☼	09/19/17 15:43	09/20/17 12:12	1
Potassium	2200		29	10	mg/Kg	☼	09/19/17 15:43	09/20/17 12:12	1
Selenium	<0.58		0.58	0.34	mg/Kg	☼	09/19/17 15:43	09/20/17 12:12	1
Silver	<0.29		0.29	0.074	mg/Kg	☼	09/19/17 15:43	09/20/17 12:12	1
Sodium	170		58	8.5	mg/Kg	☼	09/19/17 15:43	09/20/17 12:12	1
Thallium	0.57	J	0.58	0.29	mg/Kg	☼	09/19/17 15:43	09/20/17 12:12	1
Vanadium	16		0.29	0.068	mg/Kg	☼	09/19/17 15:43	09/20/17 12:12	1
Zinc	57		1.2	0.51	mg/Kg	☼	09/19/17 15:43	09/20/17 12:12	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		09/20/17 16:00	09/21/17 11:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		09/20/17 16:00	09/21/17 12:13	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	25		19	6.4	ug/Kg	☼	09/21/17 16:00	09/22/17 13:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.9		0.20	0.20	SU			09/23/17 10:44	1

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134187-1

Client Sample ID: FH-16(54-62)-091817

Lab Sample ID: 500-134187-11

Date Collected: 09/18/17 11:45

Matrix: Solid

Date Received: 09/18/17 17:35

Percent Solids: 81.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	34		18	7.9	ug/Kg	☼	09/19/17 08:37	09/20/17 17:22	1
Benzene	<1.8		1.8	0.46	ug/Kg	☼	09/19/17 08:37	09/20/17 17:22	1
Bromodichloromethane	<1.8		1.8	0.37	ug/Kg	☼	09/19/17 08:37	09/20/17 17:22	1
Bromoform	<1.8		1.8	0.53	ug/Kg	☼	09/19/17 08:37	09/20/17 17:22	1
Bromomethane	<4.5		4.5	1.7	ug/Kg	☼	09/19/17 08:37	09/20/17 17:22	1
Carbon disulfide	<4.5		4.5	0.94	ug/Kg	☼	09/19/17 08:37	09/20/17 17:22	1
Carbon tetrachloride	<1.8		1.8	0.53	ug/Kg	☼	09/19/17 08:37	09/20/17 17:22	1
Chlorobenzene	<1.8		1.8	0.67	ug/Kg	☼	09/19/17 08:37	09/20/17 17:22	1
Chloroethane	<4.5		4.5	1.3	ug/Kg	☼	09/19/17 08:37	09/20/17 17:22	1
Chloroform	<1.8		1.8	0.63	ug/Kg	☼	09/19/17 08:37	09/20/17 17:22	1
Chloromethane	<4.5		4.5	1.8	ug/Kg	☼	09/19/17 08:37	09/20/17 17:22	1
cis-1,2-Dichloroethene	<1.8		1.8	0.51	ug/Kg	☼	09/19/17 08:37	09/20/17 17:22	1
cis-1,3-Dichloropropene	<1.8		1.8	0.55	ug/Kg	☼	09/19/17 08:37	09/20/17 17:22	1
Dibromochloromethane	<1.8		1.8	0.59	ug/Kg	☼	09/19/17 08:37	09/20/17 17:22	1
1,1-Dichloroethane	<1.8		1.8	0.62	ug/Kg	☼	09/19/17 08:37	09/20/17 17:22	1
1,2-Dichloroethane	<4.5		4.5	1.4	ug/Kg	☼	09/19/17 08:37	09/20/17 17:22	1
1,1-Dichloroethene	<1.8		1.8	0.62	ug/Kg	☼	09/19/17 08:37	09/20/17 17:22	1
1,2-Dichloropropane	<1.8		1.8	0.47	ug/Kg	☼	09/19/17 08:37	09/20/17 17:22	1
1,3-Dichloropropene, Total	<1.8		1.8	0.64	ug/Kg	☼	09/19/17 08:37	09/20/17 17:22	1
Ethylbenzene	<1.8		1.8	0.87	ug/Kg	☼	09/19/17 08:37	09/20/17 17:22	1
2-Hexanone	<4.5		4.5	1.4	ug/Kg	☼	09/19/17 08:37	09/20/17 17:22	1
Methylene Chloride	<4.5		4.5	1.8	ug/Kg	☼	09/19/17 08:37	09/20/17 17:22	1
Methyl Ethyl Ketone	<4.5		4.5	2.0	ug/Kg	☼	09/19/17 08:37	09/20/17 17:22	1
methyl isobutyl ketone	<4.5		4.5	1.3	ug/Kg	☼	09/19/17 08:37	09/20/17 17:22	1
Methyl tert-butyl ether	<1.8		1.8	0.53	ug/Kg	☼	09/19/17 08:37	09/20/17 17:22	1
Styrene	<1.8		1.8	0.55	ug/Kg	☼	09/19/17 08:37	09/20/17 17:22	1
1,1,2,2-Tetrachloroethane	<1.8		1.8	0.58	ug/Kg	☼	09/19/17 08:37	09/20/17 17:22	1
Tetrachloroethene	<1.8		1.8	0.62	ug/Kg	☼	09/19/17 08:37	09/20/17 17:22	1
Toluene	<1.8		1.8	0.46	ug/Kg	☼	09/19/17 08:37	09/20/17 17:22	1
trans-1,2-Dichloroethene	<1.8		1.8	0.80	ug/Kg	☼	09/19/17 08:37	09/20/17 17:22	1
trans-1,3-Dichloropropene	<1.8		1.8	0.64	ug/Kg	☼	09/19/17 08:37	09/20/17 17:22	1
1,1,1-Trichloroethane	<1.8		1.8	0.61	ug/Kg	☼	09/19/17 08:37	09/20/17 17:22	1
1,1,2-Trichloroethane	<1.8		1.8	0.78	ug/Kg	☼	09/19/17 08:37	09/20/17 17:22	1
Trichloroethene	<1.8		1.8	0.61	ug/Kg	☼	09/19/17 08:37	09/20/17 17:22	1
Vinyl chloride	<1.8		1.8	0.80	ug/Kg	☼	09/19/17 08:37	09/20/17 17:22	1
Xylenes, Total	<3.6		3.6	0.58	ug/Kg	☼	09/19/17 08:37	09/20/17 17:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		75 - 131	09/19/17 08:37	09/20/17 17:22	1
Dibromofluoromethane	101		75 - 126	09/19/17 08:37	09/20/17 17:22	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	09/19/17 08:37	09/20/17 17:22	1
Toluene-d8 (Surr)	100		75 - 124	09/19/17 08:37	09/20/17 17:22	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	☼	09/22/17 08:26	09/25/17 21:12	1
1,2-Dichlorobenzene	<200		200	47	ug/Kg	☼	09/22/17 08:26	09/25/17 21:12	1
1,3-Dichlorobenzene	<200		200	44	ug/Kg	☼	09/22/17 08:26	09/25/17 21:12	1
1,4-Dichlorobenzene	<200		200	50	ug/Kg	☼	09/22/17 08:26	09/25/17 21:12	1
2,2'-oxybis[1-chloropropane]	<200		200	45	ug/Kg	☼	09/22/17 08:26	09/25/17 21:12	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134187-1

Client Sample ID: FH-16(54-62)-091817

Lab Sample ID: 500-134187-11

Date Collected: 09/18/17 11:45

Matrix: Solid

Date Received: 09/18/17 17:35

Percent Solids: 81.9

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	☼	09/22/17 08:26	09/25/17 21:12	1
2,4,6-Trichlorophenol	<390		390	130	ug/Kg	☼	09/22/17 08:26	09/25/17 21:12	1
2,4-Dichlorophenol	<390		390	93	ug/Kg	☼	09/22/17 08:26	09/25/17 21:12	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	09/22/17 08:26	09/25/17 21:12	1
2,4-Dinitrophenol	<790		790	690	ug/Kg	☼	09/22/17 08:26	09/25/17 21:12	1
2,4-Dinitrotoluene	<200		200	62	ug/Kg	☼	09/22/17 08:26	09/25/17 21:12	1
2,6-Dinitrotoluene	<200		200	77	ug/Kg	☼	09/22/17 08:26	09/25/17 21:12	1
2-Chloronaphthalene	<200		200	43	ug/Kg	☼	09/22/17 08:26	09/25/17 21:12	1
2-Chlorophenol	<200		200	67	ug/Kg	☼	09/22/17 08:26	09/25/17 21:12	1
2-Methylnaphthalene	<79		79	7.2	ug/Kg	☼	09/22/17 08:26	09/25/17 21:12	1
2-Methylphenol	<200		200	63	ug/Kg	☼	09/22/17 08:26	09/25/17 21:12	1
2-Nitroaniline	<200		200	53	ug/Kg	☼	09/22/17 08:26	09/25/17 21:12	1
2-Nitrophenol	<390		390	92	ug/Kg	☼	09/22/17 08:26	09/25/17 21:12	1
3 & 4 Methylphenol	<200		200	65	ug/Kg	☼	09/22/17 08:26	09/25/17 21:12	1
3,3'-Dichlorobenzidine	<200		200	55	ug/Kg	☼	09/22/17 08:26	09/25/17 21:12	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	09/22/17 08:26	09/25/17 21:12	1
4,6-Dinitro-2-methylphenol	<790		790	310	ug/Kg	☼	09/22/17 08:26	09/25/17 21:12	1
4-Bromophenyl phenyl ether	<200		200	52	ug/Kg	☼	09/22/17 08:26	09/25/17 21:12	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	09/22/17 08:26	09/25/17 21:12	1
4-Chloroaniline	<790		790	180	ug/Kg	☼	09/22/17 08:26	09/25/17 21:12	1
4-Chlorophenyl phenyl ether	<200		200	46	ug/Kg	☼	09/22/17 08:26	09/25/17 21:12	1
4-Nitroaniline	<390		390	160	ug/Kg	☼	09/22/17 08:26	09/25/17 21:12	1
4-Nitrophenol	<790		790	370	ug/Kg	☼	09/22/17 08:26	09/25/17 21:12	1
Acenaphthene	29	J	39	7.0	ug/Kg	☼	09/22/17 08:26	09/25/17 21:12	1
Acenaphthylene	<39		39	5.2	ug/Kg	☼	09/22/17 08:26	09/25/17 21:12	1
Anthracene	7.9	J	39	6.5	ug/Kg	☼	09/22/17 08:26	09/25/17 21:12	1
Benzo[a]anthracene	<39		39	5.3	ug/Kg	☼	09/22/17 08:26	09/25/17 21:12	1
Benzo[a]pyrene	<39		39	7.6	ug/Kg	☼	09/22/17 08:26	09/25/17 21:12	1
Benzo[b]fluoranthene	<39		39	8.4	ug/Kg	☼	09/22/17 08:26	09/25/17 21:12	1
Benzo[g,h,i]perylene	<39		39	13	ug/Kg	☼	09/22/17 08:26	09/25/17 21:12	1
Benzo[k]fluoranthene	<39		39	12	ug/Kg	☼	09/22/17 08:26	09/25/17 21:12	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	☼	09/22/17 08:26	09/25/17 21:12	1
Bis(2-chloroethyl)ether	<200		200	59	ug/Kg	☼	09/22/17 08:26	09/25/17 21:12	1
Bis(2-ethylhexyl) phthalate	<200		200	71	ug/Kg	☼	09/22/17 08:26	09/25/17 21:12	1
Butyl benzyl phthalate	<200		200	74	ug/Kg	☼	09/22/17 08:26	09/25/17 21:12	1
Carbazole	<200		200	98	ug/Kg	☼	09/22/17 08:26	09/25/17 21:12	1
Chrysene	42		39	11	ug/Kg	☼	09/22/17 08:26	09/25/17 21:12	1
Dibenz(a,h)anthracene	<39		39	7.6	ug/Kg	☼	09/22/17 08:26	09/25/17 21:12	1
Dibenzofuran	<200		200	46	ug/Kg	☼	09/22/17 08:26	09/25/17 21:12	1
Diethyl phthalate	<200		200	66	ug/Kg	☼	09/22/17 08:26	09/25/17 21:12	1
Dimethyl phthalate	<200		200	51	ug/Kg	☼	09/22/17 08:26	09/25/17 21:12	1
Di-n-butyl phthalate	<200		200	60	ug/Kg	☼	09/22/17 08:26	09/25/17 21:12	1
Di-n-octyl phthalate	<200		200	64	ug/Kg	☼	09/22/17 08:26	09/25/17 21:12	1
Fluoranthene	7.7	J	39	7.2	ug/Kg	☼	09/22/17 08:26	09/25/17 21:12	1
Fluorene	<39		39	5.5	ug/Kg	☼	09/22/17 08:26	09/25/17 21:12	1
Hexachlorobenzene	<79		79	9.1	ug/Kg	☼	09/22/17 08:26	09/25/17 21:12	1
Hexachlorobutadiene	<200		200	61	ug/Kg	☼	09/22/17 08:26	09/25/17 21:12	1
Hexachlorocyclopentadiene	<790		790	220	ug/Kg	☼	09/22/17 08:26	09/25/17 21:12	1
Hexachloroethane	<200		200	59	ug/Kg	☼	09/22/17 08:26	09/25/17 21:12	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134187-1

Client Sample ID: FH-16(54-62)-091817

Lab Sample ID: 500-134187-11

Date Collected: 09/18/17 11:45

Matrix: Solid

Date Received: 09/18/17 17:35

Percent Solids: 81.9

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	<39		39	10	ug/Kg	☼	09/22/17 08:26	09/25/17 21:12	1
Isophorone	<200		200	44	ug/Kg	☼	09/22/17 08:26	09/25/17 21:12	1
Naphthalene	<39		39	6.0	ug/Kg	☼	09/22/17 08:26	09/25/17 21:12	1
Nitrobenzene	<39		39	9.8	ug/Kg	☼	09/22/17 08:26	09/25/17 21:12	1
N-Nitrosodi-n-propylamine	<79		79	48	ug/Kg	☼	09/22/17 08:26	09/25/17 21:12	1
N-Nitrosodiphenylamine	<200		200	46	ug/Kg	☼	09/22/17 08:26	09/25/17 21:12	1
Pentachlorophenol	<790		790	630	ug/Kg	☼	09/22/17 08:26	09/25/17 21:12	1
Phenanthrene	58		39	5.4	ug/Kg	☼	09/22/17 08:26	09/25/17 21:12	1
Phenol	<200		200	87	ug/Kg	☼	09/22/17 08:26	09/25/17 21:12	1
Pyrene	<39		39	7.8	ug/Kg	☼	09/22/17 08:26	09/25/17 21:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	61		25 - 139	09/22/17 08:26	09/25/17 21:12	1
2-Fluorobiphenyl	91		44 - 121	09/22/17 08:26	09/25/17 21:12	1
2-Fluorophenol	126		46 - 133	09/22/17 08:26	09/25/17 21:12	1
Nitrobenzene-d5	88		41 - 120	09/22/17 08:26	09/25/17 21:12	1
Phenol-d5	107		46 - 125	09/22/17 08:26	09/25/17 21:12	1
Terphenyl-d14	113		35 - 160	09/22/17 08:26	09/25/17 21:12	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		09/20/17 08:27	09/20/17 23:54	1
Barium	0.39	J	0.50	0.050	mg/L		09/20/17 08:27	09/20/17 23:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/20/17 08:27	09/20/17 23:54	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/20/17 08:27	09/20/17 23:54	1
Chromium	<0.025		0.025	0.010	mg/L		09/20/17 08:27	09/20/17 23:54	1
Cobalt	0.015	J	0.025	0.010	mg/L		09/20/17 08:27	09/20/17 23:54	1
Copper	0.016	J	0.025	0.010	mg/L		09/20/17 08:27	09/20/17 23:54	1
Iron	0.22	J	0.40	0.20	mg/L		09/20/17 08:27	09/20/17 23:54	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/20/17 08:27	09/20/17 23:54	1
Manganese	2.7		0.025	0.010	mg/L		09/20/17 08:27	09/20/17 23:54	1
Nickel	0.033		0.025	0.010	mg/L		09/20/17 08:27	09/20/17 23:54	1
Selenium	<0.050		0.050	0.020	mg/L		09/20/17 08:27	09/20/17 23:54	1
Silver	<0.025		0.025	0.010	mg/L		09/20/17 08:27	09/20/17 23:54	1
Zinc	0.084	J	0.50	0.020	mg/L		09/20/17 08:27	09/20/17 23:54	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		09/20/17 16:52	09/21/17 16:59	1
Barium	0.15	J	0.50	0.050	mg/L		09/20/17 16:52	09/21/17 16:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/20/17 16:52	09/21/17 16:59	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/20/17 16:52	09/21/17 16:59	1
Chromium	0.013	J	0.025	0.010	mg/L		09/20/17 16:52	09/21/17 16:59	1
Cobalt	<0.025		0.025	0.010	mg/L		09/20/17 16:52	09/21/17 16:59	1
Copper	0.061		0.025	0.010	mg/L		09/20/17 16:52	09/21/17 16:59	1
Iron	4.0		0.40	0.20	mg/L		09/20/17 16:52	09/21/17 16:59	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/20/17 16:52	09/21/17 16:59	1
Manganese	0.11		0.025	0.010	mg/L		09/20/17 16:52	09/21/17 16:59	1
Nickel	0.014	J	0.025	0.010	mg/L		09/20/17 16:52	09/21/17 16:59	1
Selenium	<0.050		0.050	0.020	mg/L		09/20/17 16:52	09/21/17 16:59	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134187-1

Client Sample ID: FH-16(54-62)-091817

Lab Sample ID: 500-134187-11

Date Collected: 09/18/17 11:45

Matrix: Solid

Date Received: 09/18/17 17:35

Percent Solids: 81.9

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		09/20/17 16:52	09/21/17 16:59	1
Zinc	0.11	J	0.50	0.020	mg/L		09/20/17 16:52	09/21/17 16:59	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.23	mg/Kg	☼	09/19/17 15:43	09/20/17 12:17	1
Arsenic	9.3		0.59	0.20	mg/Kg	☼	09/19/17 15:43	09/20/17 12:17	1
Barium	27		0.59	0.068	mg/Kg	☼	09/19/17 15:43	09/20/17 12:17	1
Beryllium	0.51		0.24	0.056	mg/Kg	☼	09/19/17 15:43	09/20/17 12:17	1
Cadmium	0.15	B	0.12	0.021	mg/Kg	☼	09/19/17 15:43	09/20/17 12:17	1
Calcium	66000	B	120	20	mg/Kg	☼	09/19/17 15:43	09/20/17 13:29	10
Chromium	14		0.59	0.29	mg/Kg	☼	09/19/17 15:43	09/20/17 12:17	1
Cobalt	15		0.30	0.078	mg/Kg	☼	09/19/17 15:43	09/20/17 12:17	1
Copper	32		0.59	0.17	mg/Kg	☼	09/19/17 15:43	09/20/17 12:17	1
Iron	19000	B	12	6.2	mg/Kg	☼	09/19/17 15:43	09/20/17 12:17	1
Lead	16		0.30	0.14	mg/Kg	☼	09/19/17 15:43	09/20/17 12:17	1
Magnesium	27000	B	5.9	2.9	mg/Kg	☼	09/19/17 15:43	09/20/17 12:17	1
Manganese	360	B	0.59	0.086	mg/Kg	☼	09/19/17 15:43	09/20/17 12:17	1
Nickel	34		0.59	0.17	mg/Kg	☼	09/19/17 15:43	09/20/17 12:17	1
Potassium	2300		30	11	mg/Kg	☼	09/19/17 15:43	09/20/17 12:17	1
Selenium	0.38	J	0.59	0.35	mg/Kg	☼	09/19/17 15:43	09/20/17 12:17	1
Silver	<0.30		0.30	0.077	mg/Kg	☼	09/19/17 15:43	09/20/17 12:17	1
Sodium	180		59	8.8	mg/Kg	☼	09/19/17 15:43	09/20/17 12:17	1
Thallium	<0.59		0.59	0.30	mg/Kg	☼	09/19/17 15:43	09/20/17 12:17	1
Vanadium	16		0.30	0.070	mg/Kg	☼	09/19/17 15:43	09/20/17 12:17	1
Zinc	55		1.2	0.52	mg/Kg	☼	09/19/17 15:43	09/20/17 12:17	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		09/20/17 16:00	09/21/17 11:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		09/20/17 16:00	09/21/17 12:14	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	20		18	6.1	ug/Kg	☼	09/21/17 16:00	09/22/17 13:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.1		0.20	0.20	SU			09/23/17 10:45	1

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134187-1

Client Sample ID: FH-16(62-70)-091817

Lab Sample ID: 500-134187-12

Date Collected: 09/18/17 12:40

Matrix: Solid

Date Received: 09/18/17 17:35

Percent Solids: 80.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	39		19	8.1	ug/Kg	☼	09/19/17 08:37	09/20/17 17:47	1
Benzene	<1.9		1.9	0.48	ug/Kg	☼	09/19/17 08:37	09/20/17 17:47	1
Bromodichloromethane	<1.9		1.9	0.38	ug/Kg	☼	09/19/17 08:37	09/20/17 17:47	1
Bromoform	<1.9		1.9	0.54	ug/Kg	☼	09/19/17 08:37	09/20/17 17:47	1
Bromomethane	<4.7		4.7	1.8	ug/Kg	☼	09/19/17 08:37	09/20/17 17:47	1
Carbon disulfide	<4.7		4.7	0.97	ug/Kg	☼	09/19/17 08:37	09/20/17 17:47	1
Carbon tetrachloride	<1.9		1.9	0.54	ug/Kg	☼	09/19/17 08:37	09/20/17 17:47	1
Chlorobenzene	<1.9		1.9	0.69	ug/Kg	☼	09/19/17 08:37	09/20/17 17:47	1
Chloroethane	<4.7		4.7	1.4	ug/Kg	☼	09/19/17 08:37	09/20/17 17:47	1
Chloroform	<1.9		1.9	0.65	ug/Kg	☼	09/19/17 08:37	09/20/17 17:47	1
Chloromethane	<4.7		4.7	1.9	ug/Kg	☼	09/19/17 08:37	09/20/17 17:47	1
cis-1,2-Dichloroethene	<1.9		1.9	0.52	ug/Kg	☼	09/19/17 08:37	09/20/17 17:47	1
cis-1,3-Dichloropropene	<1.9		1.9	0.56	ug/Kg	☼	09/19/17 08:37	09/20/17 17:47	1
Dibromochloromethane	<1.9		1.9	0.61	ug/Kg	☼	09/19/17 08:37	09/20/17 17:47	1
1,1-Dichloroethane	<1.9		1.9	0.64	ug/Kg	☼	09/19/17 08:37	09/20/17 17:47	1
1,2-Dichloroethane	<4.7		4.7	1.5	ug/Kg	☼	09/19/17 08:37	09/20/17 17:47	1
1,1-Dichloroethene	<1.9		1.9	0.64	ug/Kg	☼	09/19/17 08:37	09/20/17 17:47	1
1,2-Dichloropropane	<1.9		1.9	0.48	ug/Kg	☼	09/19/17 08:37	09/20/17 17:47	1
1,3-Dichloropropane, Total	<1.9		1.9	0.65	ug/Kg	☼	09/19/17 08:37	09/20/17 17:47	1
Ethylbenzene	<1.9		1.9	0.89	ug/Kg	☼	09/19/17 08:37	09/20/17 17:47	1
2-Hexanone	<4.7		4.7	1.5	ug/Kg	☼	09/19/17 08:37	09/20/17 17:47	1
Methylene Chloride	<4.7		4.7	1.8	ug/Kg	☼	09/19/17 08:37	09/20/17 17:47	1
Methyl Ethyl Ketone	<4.7		4.7	2.1	ug/Kg	☼	09/19/17 08:37	09/20/17 17:47	1
methyl isobutyl ketone	<4.7		4.7	1.4	ug/Kg	☼	09/19/17 08:37	09/20/17 17:47	1
Methyl tert-butyl ether	<1.9		1.9	0.55	ug/Kg	☼	09/19/17 08:37	09/20/17 17:47	1
Styrene	<1.9		1.9	0.56	ug/Kg	☼	09/19/17 08:37	09/20/17 17:47	1
1,1,2,2-Tetrachloroethane	<1.9 *		1.9	0.60	ug/Kg	☼	09/19/17 08:37	09/20/17 17:47	1
Tetrachloroethene	<1.9		1.9	0.64	ug/Kg	☼	09/19/17 08:37	09/20/17 17:47	1
Toluene	<1.9		1.9	0.47	ug/Kg	☼	09/19/17 08:37	09/20/17 17:47	1
trans-1,2-Dichloroethene	<1.9		1.9	0.83	ug/Kg	☼	09/19/17 08:37	09/20/17 17:47	1
trans-1,3-Dichloropropene	<1.9		1.9	0.65	ug/Kg	☼	09/19/17 08:37	09/20/17 17:47	1
1,1,1-Trichloroethane	<1.9		1.9	0.63	ug/Kg	☼	09/19/17 08:37	09/20/17 17:47	1
1,1,2-Trichloroethane	<1.9		1.9	0.80	ug/Kg	☼	09/19/17 08:37	09/20/17 17:47	1
Trichloroethene	<1.9		1.9	0.63	ug/Kg	☼	09/19/17 08:37	09/20/17 17:47	1
Vinyl chloride	<1.9		1.9	0.83	ug/Kg	☼	09/19/17 08:37	09/20/17 17:47	1
Xylenes, Total	<3.7		3.7	0.60	ug/Kg	☼	09/19/17 08:37	09/20/17 17:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	137	* X	75 - 131	09/19/17 08:37	09/20/17 17:47	1
Dibromofluoromethane	103		75 - 126	09/19/17 08:37	09/20/17 17:47	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	09/19/17 08:37	09/20/17 17:47	1
Toluene-d8 (Surr)	108		75 - 124	09/19/17 08:37	09/20/17 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	<200		200	42	ug/Kg	☼	09/22/17 08:26	09/25/17 19:51	1
1,2-Dichlorobenzene	<200		200	47	ug/Kg	☼	09/22/17 08:26	09/25/17 19:51	1
1,3-Dichlorobenzene	<200		200	44	ug/Kg	☼	09/22/17 08:26	09/25/17 19:51	1
1,4-Dichlorobenzene	<200		200	50	ug/Kg	☼	09/22/17 08:26	09/25/17 19:51	1
2,2'-oxybis[1-chloropropane]	<200		200	45	ug/Kg	☼	09/22/17 08:26	09/25/17 19:51	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134187-1

Client Sample ID: FH-16(62-70)-091817

Lab Sample ID: 500-134187-12

Date Collected: 09/18/17 12:40

Matrix: Solid

Date Received: 09/18/17 17:35

Percent Solids: 80.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<390		390	89	ug/Kg	☼	09/22/17 08:26	09/25/17 19:51	1
2,4,6-Trichlorophenol	<390		390	130	ug/Kg	☼	09/22/17 08:26	09/25/17 19:51	1
2,4-Dichlorophenol	<390		390	93	ug/Kg	☼	09/22/17 08:26	09/25/17 19:51	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	09/22/17 08:26	09/25/17 19:51	1
2,4-Dinitrophenol	<790		790	690	ug/Kg	☼	09/22/17 08:26	09/25/17 19:51	1
2,4-Dinitrotoluene	<200		200	62	ug/Kg	☼	09/22/17 08:26	09/25/17 19:51	1
2,6-Dinitrotoluene	<200		200	77	ug/Kg	☼	09/22/17 08:26	09/25/17 19:51	1
2-Chloronaphthalene	<200		200	43	ug/Kg	☼	09/22/17 08:26	09/25/17 19:51	1
2-Chlorophenol	<200		200	67	ug/Kg	☼	09/22/17 08:26	09/25/17 19:51	1
2-Methylnaphthalene	<79		79	7.2	ug/Kg	☼	09/22/17 08:26	09/25/17 19:51	1
2-Methylphenol	<200		200	63	ug/Kg	☼	09/22/17 08:26	09/25/17 19:51	1
2-Nitroaniline	<200		200	53	ug/Kg	☼	09/22/17 08:26	09/25/17 19:51	1
2-Nitrophenol	<390		390	92	ug/Kg	☼	09/22/17 08:26	09/25/17 19:51	1
3 & 4 Methylphenol	<200		200	65	ug/Kg	☼	09/22/17 08:26	09/25/17 19:51	1
3,3'-Dichlorobenzidine	<200		200	55	ug/Kg	☼	09/22/17 08:26	09/25/17 19:51	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	09/22/17 08:26	09/25/17 19:51	1
4,6-Dinitro-2-methylphenol	<790		790	310	ug/Kg	☼	09/22/17 08:26	09/25/17 19:51	1
4-Bromophenyl phenyl ether	<200		200	52	ug/Kg	☼	09/22/17 08:26	09/25/17 19:51	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	09/22/17 08:26	09/25/17 19:51	1
4-Chloroaniline	<790		790	180	ug/Kg	☼	09/22/17 08:26	09/25/17 19:51	1
4-Chlorophenyl phenyl ether	<200		200	46	ug/Kg	☼	09/22/17 08:26	09/25/17 19:51	1
4-Nitroaniline	<390		390	160	ug/Kg	☼	09/22/17 08:26	09/25/17 19:51	1
4-Nitrophenol	<790		790	370	ug/Kg	☼	09/22/17 08:26	09/25/17 19:51	1
Acenaphthene	19 J		39	7.0	ug/Kg	☼	09/22/17 08:26	09/25/17 19:51	1
Acenaphthylene	<39		39	5.2	ug/Kg	☼	09/22/17 08:26	09/25/17 19:51	1
Anthracene	<39		39	6.5	ug/Kg	☼	09/22/17 08:26	09/25/17 19:51	1
Benzo[a]anthracene	<39		39	5.3	ug/Kg	☼	09/22/17 08:26	09/25/17 19:51	1
Benzo[a]pyrene	<39		39	7.6	ug/Kg	☼	09/22/17 08:26	09/25/17 19:51	1
Benzo[b]fluoranthene	<39		39	8.4	ug/Kg	☼	09/22/17 08:26	09/25/17 19:51	1
Benzo[g,h,i]perylene	<39		39	13	ug/Kg	☼	09/22/17 08:26	09/25/17 19:51	1
Benzo[k]fluoranthene	<39		39	12	ug/Kg	☼	09/22/17 08:26	09/25/17 19:51	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	☼	09/22/17 08:26	09/25/17 19:51	1
Bis(2-chloroethyl)ether	<200		200	59	ug/Kg	☼	09/22/17 08:26	09/25/17 19:51	1
Bis(2-ethylhexyl) phthalate	<200		200	71	ug/Kg	☼	09/22/17 08:26	09/25/17 19:51	1
Butyl benzyl phthalate	<200		200	74	ug/Kg	☼	09/22/17 08:26	09/25/17 19:51	1
Carbazole	<200		200	98	ug/Kg	☼	09/22/17 08:26	09/25/17 19:51	1
Chrysene	48		39	11	ug/Kg	☼	09/22/17 08:26	09/25/17 19:51	1
Dibenz(a,h)anthracene	<39		39	7.6	ug/Kg	☼	09/22/17 08:26	09/25/17 19:51	1
Dibenzofuran	<200		200	46	ug/Kg	☼	09/22/17 08:26	09/25/17 19:51	1
Diethyl phthalate	<200		200	66	ug/Kg	☼	09/22/17 08:26	09/25/17 19:51	1
Dimethyl phthalate	<200		200	51	ug/Kg	☼	09/22/17 08:26	09/25/17 19:51	1
Di-n-butyl phthalate	<200		200	60	ug/Kg	☼	09/22/17 08:26	09/25/17 19:51	1
Di-n-octyl phthalate	<200		200	64	ug/Kg	☼	09/22/17 08:26	09/25/17 19:51	1
Fluoranthene	<39		39	7.3	ug/Kg	☼	09/22/17 08:26	09/25/17 19:51	1
Fluorene	11 J		39	5.5	ug/Kg	☼	09/22/17 08:26	09/25/17 19:51	1
Hexachlorobenzene	<79		79	9.1	ug/Kg	☼	09/22/17 08:26	09/25/17 19:51	1
Hexachlorobutadiene	<200		200	61	ug/Kg	☼	09/22/17 08:26	09/25/17 19:51	1
Hexachlorocyclopentadiene	<790		790	220	ug/Kg	☼	09/22/17 08:26	09/25/17 19:51	1
Hexachloroethane	<200		200	59	ug/Kg	☼	09/22/17 08:26	09/25/17 19:51	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134187-1

Client Sample ID: FH-16(62-70)-091817

Lab Sample ID: 500-134187-12

Date Collected: 09/18/17 12:40

Matrix: Solid

Date Received: 09/18/17 17:35

Percent Solids: 80.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<39		39	10	ug/Kg	☼	09/22/17 08:26	09/25/17 19:51	1
Isophorone	<200		200	44	ug/Kg	☼	09/22/17 08:26	09/25/17 19:51	1
Naphthalene	<39		39	6.0	ug/Kg	☼	09/22/17 08:26	09/25/17 19:51	1
Nitrobenzene	<39		39	9.8	ug/Kg	☼	09/22/17 08:26	09/25/17 19:51	1
N-Nitrosodi-n-propylamine	<79		79	48	ug/Kg	☼	09/22/17 08:26	09/25/17 19:51	1
N-Nitrosodiphenylamine	<200		200	46	ug/Kg	☼	09/22/17 08:26	09/25/17 19:51	1
Pentachlorophenol	<790		790	630	ug/Kg	☼	09/22/17 08:26	09/25/17 19:51	1
Phenanthrene	62		39	5.5	ug/Kg	☼	09/22/17 08:26	09/25/17 19:51	1
Phenol	<200		200	87	ug/Kg	☼	09/22/17 08:26	09/25/17 19:51	1
Pyrene	<39		39	7.8	ug/Kg	☼	09/22/17 08:26	09/25/17 19:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	40		25 - 139				09/22/17 08:26	09/25/17 19:51	1
2-Fluorobiphenyl	86		44 - 121				09/22/17 08:26	09/25/17 19:51	1
2-Fluorophenol	116		46 - 133				09/22/17 08:26	09/25/17 19:51	1
Nitrobenzene-d5	87		41 - 120				09/22/17 08:26	09/25/17 19:51	1
Phenol-d5	104		46 - 125				09/22/17 08:26	09/25/17 19:51	1
Terphenyl-d14	106		35 - 160				09/22/17 08:26	09/25/17 19:51	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/20/17 08:27	09/20/17 23:58	1
Barium	0.53		0.50	0.050	mg/L		09/20/17 08:27	09/20/17 23:58	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/20/17 08:27	09/20/17 23:58	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/20/17 08:27	09/20/17 23:58	1
Chromium	<0.025		0.025	0.010	mg/L		09/20/17 08:27	09/20/17 23:58	1
Cobalt	0.025		0.025	0.010	mg/L		09/20/17 08:27	09/20/17 23:58	1
Copper	0.035		0.025	0.010	mg/L		09/20/17 08:27	09/20/17 23:58	1
Iron	<0.40		0.40	0.20	mg/L		09/20/17 08:27	09/20/17 23:58	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/20/17 08:27	09/20/17 23:58	1
Manganese	2.7		0.025	0.010	mg/L		09/20/17 08:27	09/20/17 23:58	1
Nickel	0.049		0.025	0.010	mg/L		09/20/17 08:27	09/20/17 23:58	1
Selenium	<0.050		0.050	0.020	mg/L		09/20/17 08:27	09/20/17 23:58	1
Silver	<0.025		0.025	0.010	mg/L		09/20/17 08:27	09/20/17 23:58	1
Zinc	0.055 J		0.50	0.020	mg/L		09/20/17 08:27	09/20/17 23:58	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		09/20/17 16:52	09/21/17 17:03	1
Barium	0.14 J		0.50	0.050	mg/L		09/20/17 16:52	09/21/17 17:03	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/20/17 16:52	09/21/17 17:03	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/20/17 16:52	09/21/17 17:03	1
Chromium	<0.025		0.025	0.010	mg/L		09/20/17 16:52	09/21/17 17:03	1
Cobalt	<0.025		0.025	0.010	mg/L		09/20/17 16:52	09/21/17 17:03	1
Copper	0.033		0.025	0.010	mg/L		09/20/17 16:52	09/21/17 17:03	1
Iron	1.0		0.40	0.20	mg/L		09/20/17 16:52	09/21/17 17:03	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/20/17 16:52	09/21/17 17:03	1
Manganese	0.058		0.025	0.010	mg/L		09/20/17 16:52	09/21/17 17:03	1
Nickel	<0.025		0.025	0.010	mg/L		09/20/17 16:52	09/21/17 17:03	1
Selenium	<0.050		0.050	0.020	mg/L		09/20/17 16:52	09/21/17 17:03	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134187-1

Client Sample ID: FH-16(62-70)-091817

Lab Sample ID: 500-134187-12

Date Collected: 09/18/17 12:40

Matrix: Solid

Date Received: 09/18/17 17:35

Percent Solids: 80.1

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		09/20/17 16:52	09/21/17 17:03	1
Zinc	0.083	J	0.50	0.020	mg/L		09/20/17 16:52	09/21/17 17:03	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.23	mg/Kg	☼	09/19/17 15:43	09/20/17 12:21	1
Arsenic	12		0.60	0.21	mg/Kg	☼	09/19/17 15:43	09/20/17 12:21	1
Barium	25		0.60	0.069	mg/Kg	☼	09/19/17 15:43	09/20/17 12:21	1
Beryllium	0.47		0.24	0.056	mg/Kg	☼	09/19/17 15:43	09/20/17 12:21	1
Cadmium	0.19	B	0.12	0.022	mg/Kg	☼	09/19/17 15:43	09/20/17 12:21	1
Calcium	68000	B	120	20	mg/Kg	☼	09/19/17 15:43	09/20/17 13:33	10
Chromium	12		0.60	0.30	mg/Kg	☼	09/19/17 15:43	09/20/17 12:21	1
Cobalt	16		0.30	0.079	mg/Kg	☼	09/19/17 15:43	09/20/17 12:21	1
Copper	36		0.60	0.17	mg/Kg	☼	09/19/17 15:43	09/20/17 12:21	1
Iron	20000	B	12	6.3	mg/Kg	☼	09/19/17 15:43	09/20/17 12:21	1
Lead	18		0.30	0.14	mg/Kg	☼	09/19/17 15:43	09/20/17 12:21	1
Magnesium	28000	B	6.0	3.0	mg/Kg	☼	09/19/17 15:43	09/20/17 12:21	1
Manganese	370	B	0.60	0.087	mg/Kg	☼	09/19/17 15:43	09/20/17 12:21	1
Nickel	35		0.60	0.18	mg/Kg	☼	09/19/17 15:43	09/20/17 12:21	1
Potassium	2000		30	11	mg/Kg	☼	09/19/17 15:43	09/20/17 12:21	1
Selenium	<0.60		0.60	0.35	mg/Kg	☼	09/19/17 15:43	09/20/17 12:21	1
Silver	<0.30		0.30	0.078	mg/Kg	☼	09/19/17 15:43	09/20/17 12:21	1
Sodium	160		60	8.9	mg/Kg	☼	09/19/17 15:43	09/20/17 12:21	1
Thallium	0.84		0.60	0.30	mg/Kg	☼	09/19/17 15:43	09/20/17 12:21	1
Vanadium	15		0.30	0.071	mg/Kg	☼	09/19/17 15:43	09/20/17 12:21	1
Zinc	49		1.2	0.53	mg/Kg	☼	09/19/17 15:43	09/20/17 12:21	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		09/20/17 16:00	09/21/17 11:30	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		09/20/17 16:00	09/21/17 12:16	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	27		20	6.8	ug/Kg	☼	09/21/17 16:00	09/22/17 13:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.1		0.20	0.20	SU			09/23/17 10:47	1

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134187-1

Client Sample ID: FH-16(70-73)-091817

Lab Sample ID: 500-134187-13

Date Collected: 09/18/17 13:15

Matrix: Solid

Date Received: 09/18/17 17:35

Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	29		17	7.4	ug/Kg	☼	09/19/17 08:37	09/20/17 18:12	1
Benzene	<1.7		1.7	0.43	ug/Kg	☼	09/19/17 08:37	09/20/17 18:12	1
Bromodichloromethane	<1.7		1.7	0.35	ug/Kg	☼	09/19/17 08:37	09/20/17 18:12	1
Bromoform	<1.7		1.7	0.50	ug/Kg	☼	09/19/17 08:37	09/20/17 18:12	1
Bromomethane	<4.2		4.2	1.6	ug/Kg	☼	09/19/17 08:37	09/20/17 18:12	1
Carbon disulfide	<4.2		4.2	0.88	ug/Kg	☼	09/19/17 08:37	09/20/17 18:12	1
Carbon tetrachloride	<1.7		1.7	0.49	ug/Kg	☼	09/19/17 08:37	09/20/17 18:12	1
Chlorobenzene	<1.7		1.7	0.63	ug/Kg	☼	09/19/17 08:37	09/20/17 18:12	1
Chloroethane	<4.2		4.2	1.3	ug/Kg	☼	09/19/17 08:37	09/20/17 18:12	1
Chloroform	<1.7		1.7	0.59	ug/Kg	☼	09/19/17 08:37	09/20/17 18:12	1
Chloromethane	<4.2		4.2	1.7	ug/Kg	☼	09/19/17 08:37	09/20/17 18:12	1
cis-1,2-Dichloroethene	<1.7		1.7	0.47	ug/Kg	☼	09/19/17 08:37	09/20/17 18:12	1
cis-1,3-Dichloropropene	<1.7		1.7	0.51	ug/Kg	☼	09/19/17 08:37	09/20/17 18:12	1
Dibromochloromethane	<1.7		1.7	0.56	ug/Kg	☼	09/19/17 08:37	09/20/17 18:12	1
1,1-Dichloroethane	<1.7		1.7	0.58	ug/Kg	☼	09/19/17 08:37	09/20/17 18:12	1
1,2-Dichloroethane	<4.2		4.2	1.3	ug/Kg	☼	09/19/17 08:37	09/20/17 18:12	1
1,1-Dichloroethene	<1.7		1.7	0.58	ug/Kg	☼	09/19/17 08:37	09/20/17 18:12	1
1,2-Dichloropropane	<1.7		1.7	0.44	ug/Kg	☼	09/19/17 08:37	09/20/17 18:12	1
1,3-Dichloropropene, Total	<1.7		1.7	0.60	ug/Kg	☼	09/19/17 08:37	09/20/17 18:12	1
Ethylbenzene	<1.7		1.7	0.81	ug/Kg	☼	09/19/17 08:37	09/20/17 18:12	1
2-Hexanone	<4.2		4.2	1.3	ug/Kg	☼	09/19/17 08:37	09/20/17 18:12	1
Methylene Chloride	<4.2		4.2	1.7	ug/Kg	☼	09/19/17 08:37	09/20/17 18:12	1
Methyl Ethyl Ketone	<4.2		4.2	1.9	ug/Kg	☼	09/19/17 08:37	09/20/17 18:12	1
methyl isobutyl ketone	<4.2		4.2	1.3	ug/Kg	☼	09/19/17 08:37	09/20/17 18:12	1
Methyl tert-butyl ether	<1.7		1.7	0.50	ug/Kg	☼	09/19/17 08:37	09/20/17 18:12	1
Styrene	<1.7		1.7	0.51	ug/Kg	☼	09/19/17 08:37	09/20/17 18:12	1
1,1,2,2-Tetrachloroethane	<1.7		1.7	0.54	ug/Kg	☼	09/19/17 08:37	09/20/17 18:12	1
Tetrachloroethene	<1.7		1.7	0.58	ug/Kg	☼	09/19/17 08:37	09/20/17 18:12	1
Toluene	<1.7		1.7	0.43	ug/Kg	☼	09/19/17 08:37	09/20/17 18:12	1
trans-1,2-Dichloroethene	<1.7		1.7	0.75	ug/Kg	☼	09/19/17 08:37	09/20/17 18:12	1
trans-1,3-Dichloropropene	<1.7		1.7	0.60	ug/Kg	☼	09/19/17 08:37	09/20/17 18:12	1
1,1,1-Trichloroethane	<1.7		1.7	0.57	ug/Kg	☼	09/19/17 08:37	09/20/17 18:12	1
1,1,2-Trichloroethane	<1.7		1.7	0.73	ug/Kg	☼	09/19/17 08:37	09/20/17 18:12	1
Trichloroethene	<1.7		1.7	0.57	ug/Kg	☼	09/19/17 08:37	09/20/17 18:12	1
Vinyl chloride	<1.7		1.7	0.75	ug/Kg	☼	09/19/17 08:37	09/20/17 18:12	1
Xylenes, Total	<3.4		3.4	0.54	ug/Kg	☼	09/19/17 08:37	09/20/17 18:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		75 - 131	09/19/17 08:37	09/20/17 18:12	1
Dibromofluoromethane	101		75 - 126	09/19/17 08:37	09/20/17 18:12	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 134	09/19/17 08:37	09/20/17 18:12	1
Toluene-d8 (Surr)	100		75 - 124	09/19/17 08:37	09/20/17 18:12	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	☼	09/22/17 08:26	09/25/17 16:14	1
1,2-Dichlorobenzene	<200		200	46	ug/Kg	☼	09/22/17 08:26	09/25/17 16:14	1
1,3-Dichlorobenzene	<200		200	44	ug/Kg	☼	09/22/17 08:26	09/25/17 16:14	1
1,4-Dichlorobenzene	<200		200	50	ug/Kg	☼	09/22/17 08:26	09/25/17 16:14	1
2,2'-oxybis[1-chloropropane]	<200		200	45	ug/Kg	☼	09/22/17 08:26	09/25/17 16:14	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134187-1

Client Sample ID: FH-16(70-73)-091817

Lab Sample ID: 500-134187-13

Date Collected: 09/18/17 13:15

Matrix: Solid

Date Received: 09/18/17 17:35

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	<390		390	89	ug/Kg	☼	09/22/17 08:26	09/25/17 16:14	1
2,4,6-Trichlorophenol	<390		390	130	ug/Kg	☼	09/22/17 08:26	09/25/17 16:14	1
2,4-Dichlorophenol	<390		390	92	ug/Kg	☼	09/22/17 08:26	09/25/17 16:14	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	09/22/17 08:26	09/25/17 16:14	1
2,4-Dinitrophenol	<780		780	680	ug/Kg	☼	09/22/17 08:26	09/25/17 16:14	1
2,4-Dinitrotoluene	<200		200	62	ug/Kg	☼	09/22/17 08:26	09/25/17 16:14	1
2,6-Dinitrotoluene	<200		200	76	ug/Kg	☼	09/22/17 08:26	09/25/17 16:14	1
2-Chloronaphthalene	<200		200	43	ug/Kg	☼	09/22/17 08:26	09/25/17 16:14	1
2-Chlorophenol	<200		200	66	ug/Kg	☼	09/22/17 08:26	09/25/17 16:14	1
2-Methylnaphthalene	<78		78	7.1	ug/Kg	☼	09/22/17 08:26	09/25/17 16:14	1
2-Methylphenol	<200		200	62	ug/Kg	☼	09/22/17 08:26	09/25/17 16:14	1
2-Nitroaniline	<200		200	52	ug/Kg	☼	09/22/17 08:26	09/25/17 16:14	1
2-Nitrophenol	<390		390	92	ug/Kg	☼	09/22/17 08:26	09/25/17 16:14	1
3 & 4 Methylphenol	<200		200	65	ug/Kg	☼	09/22/17 08:26	09/25/17 16:14	1
3,3'-Dichlorobenzidine	<200		200	54	ug/Kg	☼	09/22/17 08:26	09/25/17 16:14	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	09/22/17 08:26	09/25/17 16:14	1
4,6-Dinitro-2-methylphenol	<780		780	310	ug/Kg	☼	09/22/17 08:26	09/25/17 16:14	1
4-Bromophenyl phenyl ether	<200		200	51	ug/Kg	☼	09/22/17 08:26	09/25/17 16:14	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	09/22/17 08:26	09/25/17 16:14	1
4-Chloroaniline	<780		780	180	ug/Kg	☼	09/22/17 08:26	09/25/17 16:14	1
4-Chlorophenyl phenyl ether	<200		200	45	ug/Kg	☼	09/22/17 08:26	09/25/17 16:14	1
4-Nitroaniline	<390		390	160	ug/Kg	☼	09/22/17 08:26	09/25/17 16:14	1
4-Nitrophenol	<780		780	370	ug/Kg	☼	09/22/17 08:26	09/25/17 16:14	1
Acenaphthene	<39		39	7.0	ug/Kg	☼	09/22/17 08:26	09/25/17 16:14	1
Acenaphthylene	<39		39	5.1	ug/Kg	☼	09/22/17 08:26	09/25/17 16:14	1
Anthracene	<39		39	6.5	ug/Kg	☼	09/22/17 08:26	09/25/17 16:14	1
Benzo[a]anthracene	<39		39	5.2	ug/Kg	☼	09/22/17 08:26	09/25/17 16:14	1
Benzo[a]pyrene	<39		39	7.5	ug/Kg	☼	09/22/17 08:26	09/25/17 16:14	1
Benzo[b]fluoranthene	<39		39	8.4	ug/Kg	☼	09/22/17 08:26	09/25/17 16:14	1
Benzo[g,h,i]perylene	<39		39	13	ug/Kg	☼	09/22/17 08:26	09/25/17 16:14	1
Benzo[k]fluoranthene	<39		39	11	ug/Kg	☼	09/22/17 08:26	09/25/17 16:14	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	☼	09/22/17 08:26	09/25/17 16:14	1
Bis(2-chloroethyl)ether	<200		200	58	ug/Kg	☼	09/22/17 08:26	09/25/17 16:14	1
Bis(2-ethylhexyl) phthalate	<200		200	71	ug/Kg	☼	09/22/17 08:26	09/25/17 16:14	1
Butyl benzyl phthalate	<200		200	74	ug/Kg	☼	09/22/17 08:26	09/25/17 16:14	1
Carbazole	<200		200	97	ug/Kg	☼	09/22/17 08:26	09/25/17 16:14	1
Chrysene	19 J		39	11	ug/Kg	☼	09/22/17 08:26	09/25/17 16:14	1
Dibenz(a,h)anthracene	<39		39	7.5	ug/Kg	☼	09/22/17 08:26	09/25/17 16:14	1
Dibenzofuran	<200		200	45	ug/Kg	☼	09/22/17 08:26	09/25/17 16:14	1
Diethyl phthalate	<200		200	66	ug/Kg	☼	09/22/17 08:26	09/25/17 16:14	1
Dimethyl phthalate	<200		200	51	ug/Kg	☼	09/22/17 08:26	09/25/17 16:14	1
Di-n-butyl phthalate	<200		200	59	ug/Kg	☼	09/22/17 08:26	09/25/17 16:14	1
Di-n-octyl phthalate	<200		200	63	ug/Kg	☼	09/22/17 08:26	09/25/17 16:14	1
Fluoranthene	<39		39	7.2	ug/Kg	☼	09/22/17 08:26	09/25/17 16:14	1
Fluorene	<39		39	5.5	ug/Kg	☼	09/22/17 08:26	09/25/17 16:14	1
Hexachlorobenzene	<78		78	9.0	ug/Kg	☼	09/22/17 08:26	09/25/17 16:14	1
Hexachlorobutadiene	<200		200	61	ug/Kg	☼	09/22/17 08:26	09/25/17 16:14	1
Hexachlorocyclopentadiene	<780		780	220	ug/Kg	☼	09/22/17 08:26	09/25/17 16:14	1
Hexachloroethane	<200		200	59	ug/Kg	☼	09/22/17 08:26	09/25/17 16:14	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134187-1

Client Sample ID: FH-16(70-73)-091817

Lab Sample ID: 500-134187-13

Date Collected: 09/18/17 13:15

Matrix: Solid

Date Received: 09/18/17 17:35

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	<39		39	10	ug/Kg	☼	09/22/17 08:26	09/25/17 16:14	1
Isophorone	<200		200	44	ug/Kg	☼	09/22/17 08:26	09/25/17 16:14	1
Naphthalene	<39		39	6.0	ug/Kg	☼	09/22/17 08:26	09/25/17 16:14	1
Nitrobenzene	<39		39	9.7	ug/Kg	☼	09/22/17 08:26	09/25/17 16:14	1
N-Nitrosodi-n-propylamine	<78		78	47	ug/Kg	☼	09/22/17 08:26	09/25/17 16:14	1
N-Nitrosodiphenylamine	<200		200	46	ug/Kg	☼	09/22/17 08:26	09/25/17 16:14	1
Pentachlorophenol	<780		780	620	ug/Kg	☼	09/22/17 08:26	09/25/17 16:14	1
Phenanthrene	11	J	39	5.4	ug/Kg	☼	09/22/17 08:26	09/25/17 16:14	1
Phenol	<200		200	86	ug/Kg	☼	09/22/17 08:26	09/25/17 16:14	1
Pyrene	<39		39	7.7	ug/Kg	☼	09/22/17 08:26	09/25/17 16:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	40		25 - 139	09/22/17 08:26	09/25/17 16:14	1
2-Fluorobiphenyl	81		44 - 121	09/22/17 08:26	09/25/17 16:14	1
2-Fluorophenol	110		46 - 133	09/22/17 08:26	09/25/17 16:14	1
Nitrobenzene-d5	84		41 - 120	09/22/17 08:26	09/25/17 16:14	1
Phenol-d5	95		46 - 125	09/22/17 08:26	09/25/17 16:14	1
Terphenyl-d14	88		35 - 160	09/22/17 08:26	09/25/17 16:14	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		09/20/17 08:27	09/21/17 00:02	1
Barium	0.30	J	0.50	0.050	mg/L		09/20/17 08:27	09/21/17 00:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/20/17 08:27	09/21/17 00:02	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/20/17 08:27	09/21/17 00:02	1
Chromium	<0.025		0.025	0.010	mg/L		09/20/17 08:27	09/21/17 00:02	1
Cobalt	0.018	J	0.025	0.010	mg/L		09/20/17 08:27	09/21/17 00:02	1
Copper	0.033		0.025	0.010	mg/L		09/20/17 08:27	09/21/17 00:02	1
Iron	<0.40		0.40	0.20	mg/L		09/20/17 08:27	09/21/17 00:02	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/20/17 08:27	09/21/17 00:02	1
Manganese	2.3		0.025	0.010	mg/L		09/20/17 08:27	09/21/17 00:02	1
Nickel	0.038		0.025	0.010	mg/L		09/20/17 08:27	09/21/17 00:02	1
Selenium	<0.050		0.050	0.020	mg/L		09/20/17 08:27	09/21/17 00:02	1
Silver	<0.025		0.025	0.010	mg/L		09/20/17 08:27	09/21/17 00:02	1
Zinc	0.049	J	0.50	0.020	mg/L		09/20/17 08:27	09/21/17 00:02	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		09/20/17 16:52	09/21/17 17:07	1
Barium	<0.50		0.50	0.050	mg/L		09/20/17 16:52	09/21/17 17:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/20/17 16:52	09/21/17 17:07	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/20/17 16:52	09/21/17 17:07	1
Chromium	<0.025		0.025	0.010	mg/L		09/20/17 16:52	09/21/17 17:07	1
Cobalt	<0.025		0.025	0.010	mg/L		09/20/17 16:52	09/21/17 17:07	1
Copper	<0.025		0.025	0.010	mg/L		09/20/17 16:52	09/21/17 17:07	1
Iron	0.30	J	0.40	0.20	mg/L		09/20/17 16:52	09/21/17 17:07	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/20/17 16:52	09/21/17 17:07	1
Manganese	0.020	J	0.025	0.010	mg/L		09/20/17 16:52	09/21/17 17:07	1
Nickel	<0.025		0.025	0.010	mg/L		09/20/17 16:52	09/21/17 17:07	1
Selenium	<0.050		0.050	0.020	mg/L		09/20/17 16:52	09/21/17 17:07	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134187-1

Client Sample ID: FH-16(70-73)-091817

Lab Sample ID: 500-134187-13

Date Collected: 09/18/17 13:15

Matrix: Solid

Date Received: 09/18/17 17:35

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		09/20/17 16:52	09/21/17 17:07	1
Zinc	<0.50		0.50	0.020	mg/L		09/20/17 16:52	09/21/17 17:07	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.42	J B	1.1	0.21	mg/Kg	☼	09/19/17 15:43	09/20/17 12:25	1
Arsenic	13		0.55	0.19	mg/Kg	☼	09/19/17 15:43	09/20/17 12:25	1
Barium	16		0.55	0.063	mg/Kg	☼	09/19/17 15:43	09/20/17 12:25	1
Beryllium	0.28		0.22	0.051	mg/Kg	☼	09/19/17 15:43	09/20/17 12:25	1
Cadmium	0.25	B	0.11	0.020	mg/Kg	☼	09/19/17 15:43	09/20/17 12:25	1
Calcium	89000	B	110	19	mg/Kg	☼	09/19/17 15:43	09/20/17 13:36	10
Chromium	7.3		0.55	0.27	mg/Kg	☼	09/19/17 15:43	09/20/17 12:25	1
Cobalt	12		0.28	0.072	mg/Kg	☼	09/19/17 15:43	09/20/17 12:25	1
Copper	36		0.55	0.15	mg/Kg	☼	09/19/17 15:43	09/20/17 12:25	1
Iron	18000	B	11	5.7	mg/Kg	☼	09/19/17 15:43	09/20/17 12:25	1
Lead	16		0.28	0.13	mg/Kg	☼	09/19/17 15:43	09/20/17 12:25	1
Magnesium	40000	B	5.5	2.7	mg/Kg	☼	09/19/17 15:43	09/20/17 12:25	1
Manganese	430	B	0.55	0.080	mg/Kg	☼	09/19/17 15:43	09/20/17 12:25	1
Nickel	25		0.55	0.16	mg/Kg	☼	09/19/17 15:43	09/20/17 12:25	1
Potassium	1200		28	9.8	mg/Kg	☼	09/19/17 15:43	09/20/17 12:25	1
Selenium	<0.55		0.55	0.32	mg/Kg	☼	09/19/17 15:43	09/20/17 12:25	1
Silver	0.080	J	0.28	0.071	mg/Kg	☼	09/19/17 15:43	09/20/17 12:25	1
Sodium	150		55	8.2	mg/Kg	☼	09/19/17 15:43	09/20/17 12:25	1
Thallium	0.56		0.55	0.28	mg/Kg	☼	09/19/17 15:43	09/20/17 12:25	1
Vanadium	9.8		0.28	0.065	mg/Kg	☼	09/19/17 15:43	09/20/17 12:25	1
Zinc	54		1.1	0.48	mg/Kg	☼	09/19/17 15:43	09/20/17 12:25	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		09/20/17 16:00	09/21/17 11:34	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		09/20/17 16:00	09/21/17 12:17	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	30		19	6.4	ug/Kg	☼	09/21/17 16:00	09/22/17 13:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.9		0.20	0.20	SU			09/23/17 10:49	1

Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134187-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	ISTD response or retention time outside acceptable limits
X	Surrogate is outside control limits
*	LCS or LCSD is outside acceptance limits.
*	RPD of the LCS and LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

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

Metals

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

Glossary

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

Accreditation/Certification Summary

Client: Weston Solutions, Inc.

TestAmerica Job ID: 500-134187-1

Project/Site: IDOT - Eisenhower Expressway - WO 062

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Illinois	NELAP	5	100201	04-30-19

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

Analysis Method	Prep Method	Matrix	Analyte
8260B	5035	Solid	1,3-Dichloropropene, Total
9045D		Solid	pH
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

TestAmerica

THE LEADER IN ENVIRONMENTAL

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



500-134187 COC

Report To (optional) _____
Contact: Baba
Company: Weston Solutions
Address: 300 Plaza Cr. Ste 202
Address: Mundickum, IL
Phone: 224-824-7200
Fax: _____
E-Mail: _____

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

Chain of Custody Record

Lab Job #: 500-134187
Chain of Custody Number: _____
Page 1 of 3
Temperature °C of Cooler: 45, 51, 5.6

Client		Client Project #		Preservative		Parameter					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
<u>Weston</u>				<u>1</u>	<u>8</u>	<u>8</u>	<u>7</u>	<u>7</u>			
Project Name		Lab Project #		Matrix							
<u>INDOT 062 - Eisenhower Expressway</u>				<u>VOC</u>	<u>SVOC</u>	<u>metals</u>	<u>TCUP/SP/CP</u>	<u>metals</u>	<u>pH</u>		
Project Location/State		Lab PM		# of Containers		Comments					
<u>Forest Park, IL</u>		<u>R. Wright</u>									
Lab ID	MS/MSD	Sample ID	Date	Time	Matrix						
<u>1</u>		<u>FH-16(0-5)-091817</u>	<u>9/15/17</u>	<u>0836</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>2</u>		<u>FH-16(5-10)-091817</u>		<u>0844</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>3</u>		<u>FH-16(15-20)-091817</u>		<u>0902</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>4</u>		<u>FH-16(20-25)-091817</u>		<u>0908</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>5</u>		<u>FH-16(28.5-30)-091817</u>		<u>0913</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>6</u>		<u>FH-16(0-15)-091817</u>		<u>0851</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>7</u>		<u>FH-16(30-38)-091817</u>		<u>1005</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>8</u>		<u>FH-16(30-38)-091817D</u>		<u>1005</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>9</u>		<u>FH-16(38-46)-091817</u>		<u>1036</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>10</u>		<u>FH-16(46-54)-091817</u>		<u>1122</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	

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

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

Relinquished By <u>[Signature]</u>	Company <u>Weston</u>	Date <u>9/18/17</u>	Time <u>1548</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>9/18/17</u>	Time <u>1540</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>9/18/17</u>	Time <u>1735</u>	Received By <u>[Signature]</u>	Company <u>TA-CHE</u>	Date <u>9/19/17</u>	Time <u>0730</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TA
 Shipped: _____
 Hand Delivered: _____

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

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: 500-134188-1

Client Project/Site: IDOT - Eisenhower Expressway - WO 062

For:

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

Attn: Mr. S. Babusukumar



Authorized for release by:
9/26/2017 4:03:49 PM

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

LINKS

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134188-1

Client Sample ID: FH-11(38-46)-091817

Lab Sample ID: 500-134188-2

Date Collected: 09/18/17 15:24

Matrix: Solid

Date Received: 09/18/17 17:35

Percent Solids: 85.3

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	☼	09/19/17 08:37	09/20/17 15:42	1
Benzene	<1.6		1.6	0.42	ug/Kg	☼	09/19/17 08:37	09/20/17 15:42	1
Bromodichloromethane	<1.6		1.6	0.34	ug/Kg	☼	09/19/17 08:37	09/20/17 15:42	1
Bromoform	<1.6		1.6	0.48	ug/Kg	☼	09/19/17 08:37	09/20/17 15:42	1
Bromomethane	<4.1		4.1	1.6	ug/Kg	☼	09/19/17 08:37	09/20/17 15:42	1
Carbon disulfide	<4.1		4.1	0.86	ug/Kg	☼	09/19/17 08:37	09/20/17 15:42	1
Carbon tetrachloride	<1.6		1.6	0.48	ug/Kg	☼	09/19/17 08:37	09/20/17 15:42	1
Chlorobenzene	<1.6		1.6	0.61	ug/Kg	☼	09/19/17 08:37	09/20/17 15:42	1
Chloroethane	<4.1		4.1	1.2	ug/Kg	☼	09/19/17 08:37	09/20/17 15:42	1
Chloroform	<1.6		1.6	0.57	ug/Kg	☼	09/19/17 08:37	09/20/17 15:42	1
Chloromethane	<4.1		4.1	1.7	ug/Kg	☼	09/19/17 08:37	09/20/17 15:42	1
cis-1,2-Dichloroethene	<1.6		1.6	0.46	ug/Kg	☼	09/19/17 08:37	09/20/17 15:42	1
cis-1,3-Dichloropropene	<1.6		1.6	0.50	ug/Kg	☼	09/19/17 08:37	09/20/17 15:42	1
Dibromochloromethane	<1.6		1.6	0.54	ug/Kg	☼	09/19/17 08:37	09/20/17 15:42	1
1,1-Dichloroethane	<1.6		1.6	0.56	ug/Kg	☼	09/19/17 08:37	09/20/17 15:42	1
1,2-Dichloroethane	<4.1		4.1	1.3	ug/Kg	☼	09/19/17 08:37	09/20/17 15:42	1
1,1-Dichloroethene	<1.6		1.6	0.57	ug/Kg	☼	09/19/17 08:37	09/20/17 15:42	1
1,2-Dichloropropane	<1.6		1.6	0.43	ug/Kg	☼	09/19/17 08:37	09/20/17 15:42	1
1,3-Dichloropropene, Total	<1.6		1.6	0.58	ug/Kg	☼	09/19/17 08:37	09/20/17 15:42	1
Ethylbenzene	<1.6		1.6	0.79	ug/Kg	☼	09/19/17 08:37	09/20/17 15:42	1
2-Hexanone	<4.1		4.1	1.3	ug/Kg	☼	09/19/17 08:37	09/20/17 15:42	1
Methylene Chloride	<4.1		4.1	1.6	ug/Kg	☼	09/19/17 08:37	09/20/17 15:42	1
Methyl Ethyl Ketone	<4.1		4.1	1.8	ug/Kg	☼	09/19/17 08:37	09/20/17 15:42	1
methyl isobutyl ketone	<4.1		4.1	1.2	ug/Kg	☼	09/19/17 08:37	09/20/17 15:42	1
Methyl tert-butyl ether	<1.6		1.6	0.48	ug/Kg	☼	09/19/17 08:37	09/20/17 15:42	1
Styrene	<1.6		1.6	0.50	ug/Kg	☼	09/19/17 08:37	09/20/17 15:42	1
1,1,2,2-Tetrachloroethane	<1.6 *		1.6	0.53	ug/Kg	☼	09/19/17 08:37	09/20/17 15:42	1
Tetrachloroethene	<1.6		1.6	0.56	ug/Kg	☼	09/19/17 08:37	09/20/17 15:42	1
Toluene	<1.6		1.6	0.42	ug/Kg	☼	09/19/17 08:37	09/20/17 15:42	1
trans-1,2-Dichloroethene	<1.6		1.6	0.73	ug/Kg	☼	09/19/17 08:37	09/20/17 15:42	1
trans-1,3-Dichloropropene	<1.6		1.6	0.58	ug/Kg	☼	09/19/17 08:37	09/20/17 15:42	1
1,1,1-Trichloroethane	<1.6		1.6	0.55	ug/Kg	☼	09/19/17 08:37	09/20/17 15:42	1
1,1,2-Trichloroethane	<1.6		1.6	0.71	ug/Kg	☼	09/19/17 08:37	09/20/17 15:42	1
Trichloroethene	<1.6		1.6	0.56	ug/Kg	☼	09/19/17 08:37	09/20/17 15:42	1
Vinyl chloride	<1.6		1.6	0.73	ug/Kg	☼	09/19/17 08:37	09/20/17 15:42	1
Xylenes, Total	<3.3		3.3	0.53	ug/Kg	☼	09/19/17 08:37	09/20/17 15:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		75 - 131	09/19/17 08:37	09/20/17 15:42	1
Dibromofluoromethane	99		75 - 126	09/19/17 08:37	09/20/17 15:42	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	09/19/17 08:37	09/20/17 15:42	1
Toluene-d8 (Surr)	129	X	75 - 124	09/19/17 08:37	09/20/17 15:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	41	ug/Kg	☼	09/20/17 07:51	09/20/17 21:09	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	09/20/17 07:51	09/20/17 21:09	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	09/20/17 07:51	09/20/17 21:09	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	09/20/17 07:51	09/20/17 21:09	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	09/20/17 07:51	09/20/17 21:09	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134188-1

Client Sample ID: FH-11(38-46)-091817

Lab Sample ID: 500-134188-2

Date Collected: 09/18/17 15:24

Matrix: Solid

Date Received: 09/18/17 17:35

Percent Solids: 85.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<380		380	87	ug/Kg	☼	09/20/17 07:51	09/20/17 21:09	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	09/20/17 07:51	09/20/17 21:09	1
2,4-Dichlorophenol	<380		380	91	ug/Kg	☼	09/20/17 07:51	09/20/17 21:09	1
2,4-Dimethylphenol	<380		380	150	ug/Kg	☼	09/20/17 07:51	09/20/17 21:09	1
2,4-Dinitrophenol	<770		770	670	ug/Kg	☼	09/20/17 07:51	09/20/17 21:09	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	09/20/17 07:51	09/20/17 21:09	1
2,6-Dinitrotoluene	<190		190	75	ug/Kg	☼	09/20/17 07:51	09/20/17 21:09	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	09/20/17 07:51	09/20/17 21:09	1
2-Chlorophenol	<190		190	65	ug/Kg	☼	09/20/17 07:51	09/20/17 21:09	1
2-Methylnaphthalene	<77		77	7.0	ug/Kg	☼	09/20/17 07:51	09/20/17 21:09	1
2-Methylphenol	<190		190	61	ug/Kg	☼	09/20/17 07:51	09/20/17 21:09	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	09/20/17 07:51	09/20/17 21:09	1
2-Nitrophenol	<380		380	90	ug/Kg	☼	09/20/17 07:51	09/20/17 21:09	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	☼	09/20/17 07:51	09/20/17 21:09	1
3,3'-Dichlorobenzidine	<190		190	54	ug/Kg	☼	09/20/17 07:51	09/20/17 21:09	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	09/20/17 07:51	09/20/17 21:09	1
4,6-Dinitro-2-methylphenol	<770		770	310	ug/Kg	☼	09/20/17 07:51	09/20/17 21:09	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	09/20/17 07:51	09/20/17 21:09	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	09/20/17 07:51	09/20/17 21:09	1
4-Chloroaniline	<770		770	180	ug/Kg	☼	09/20/17 07:51	09/20/17 21:09	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	09/20/17 07:51	09/20/17 21:09	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	09/20/17 07:51	09/20/17 21:09	1
4-Nitrophenol	<770		770	360	ug/Kg	☼	09/20/17 07:51	09/20/17 21:09	1
Acenaphthene	26 J		38	6.9	ug/Kg	☼	09/20/17 07:51	09/20/17 21:09	1
Acenaphthylene	<38		38	5.0	ug/Kg	☼	09/20/17 07:51	09/20/17 21:09	1
Anthracene	<38		38	6.4	ug/Kg	☼	09/20/17 07:51	09/20/17 21:09	1
Benzo[a]anthracene	<38		38	5.1	ug/Kg	☼	09/20/17 07:51	09/20/17 21:09	1
Benzo[a]pyrene	<38		38	7.4	ug/Kg	☼	09/20/17 07:51	09/20/17 21:09	1
Benzo[b]fluoranthene	<38		38	8.3	ug/Kg	☼	09/20/17 07:51	09/20/17 21:09	1
Benzo[g,h,i]perylene	17 J		38	12	ug/Kg	☼	09/20/17 07:51	09/20/17 21:09	1
Benzo[k]fluoranthene	<38		38	11	ug/Kg	☼	09/20/17 07:51	09/20/17 21:09	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	09/20/17 07:51	09/20/17 21:09	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	09/20/17 07:51	09/20/17 21:09	1
Bis(2-ethylhexyl) phthalate	<190		190	70	ug/Kg	☼	09/20/17 07:51	09/20/17 21:09	1
Butyl benzyl phthalate	<190		190	73	ug/Kg	☼	09/20/17 07:51	09/20/17 21:09	1
Carbazole	<190		190	96	ug/Kg	☼	09/20/17 07:51	09/20/17 21:09	1
Chrysene	<38		38	10	ug/Kg	☼	09/20/17 07:51	09/20/17 21:09	1
Dibenz(a,h)anthracene	<38		38	7.4	ug/Kg	☼	09/20/17 07:51	09/20/17 21:09	1
Dibenzofuran	<190		190	45	ug/Kg	☼	09/20/17 07:51	09/20/17 21:09	1
Diethyl phthalate	<190		190	65	ug/Kg	☼	09/20/17 07:51	09/20/17 21:09	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	09/20/17 07:51	09/20/17 21:09	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	09/20/17 07:51	09/20/17 21:09	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	09/20/17 07:51	09/20/17 21:09	1
Fluoranthene	8.1 J		38	7.1	ug/Kg	☼	09/20/17 07:51	09/20/17 21:09	1
Fluorene	14 J		38	5.4	ug/Kg	☼	09/20/17 07:51	09/20/17 21:09	1
Hexachlorobenzene	<77		77	8.9	ug/Kg	☼	09/20/17 07:51	09/20/17 21:09	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	09/20/17 07:51	09/20/17 21:09	1
Hexachlorocyclopentadiene	<770		770	220	ug/Kg	☼	09/20/17 07:51	09/20/17 21:09	1
Hexachloroethane	<190		190	58	ug/Kg	☼	09/20/17 07:51	09/20/17 21:09	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134188-1

Client Sample ID: FH-11(38-46)-091817

Lab Sample ID: 500-134188-2

Date Collected: 09/18/17 15:24

Matrix: Solid

Date Received: 09/18/17 17:35

Percent Solids: 85.3

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	<38		38	9.9	ug/Kg	☼	09/20/17 07:51	09/20/17 21:09	1
Isophorone	<190		190	43	ug/Kg	☼	09/20/17 07:51	09/20/17 21:09	1
Naphthalene	<38		38	5.9	ug/Kg	☼	09/20/17 07:51	09/20/17 21:09	1
Nitrobenzene	<38		38	9.5	ug/Kg	☼	09/20/17 07:51	09/20/17 21:09	1
N-Nitrosodi-n-propylamine	<77		77	47	ug/Kg	☼	09/20/17 07:51	09/20/17 21:09	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	09/20/17 07:51	09/20/17 21:09	1
Pentachlorophenol	<770		770	610	ug/Kg	☼	09/20/17 07:51	09/20/17 21:09	1
Phenanthrene	47		38	5.3	ug/Kg	☼	09/20/17 07:51	09/20/17 21:09	1
Phenol	<190		190	85	ug/Kg	☼	09/20/17 07:51	09/20/17 21:09	1
Pyrene	28 J		38	7.6	ug/Kg	☼	09/20/17 07:51	09/20/17 21:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	71		25 - 139				09/20/17 07:51	09/20/17 21:09	1
2-Fluorobiphenyl	79		44 - 121				09/20/17 07:51	09/20/17 21:09	1
2-Fluorophenol	92		46 - 133				09/20/17 07:51	09/20/17 21:09	1
Nitrobenzene-d5	74		41 - 120				09/20/17 07:51	09/20/17 21:09	1
Phenol-d5	88		46 - 125				09/20/17 07:51	09/20/17 21:09	1
Terphenyl-d14	89		35 - 160				09/20/17 07:51	09/20/17 21:09	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/20/17 08:41	09/20/17 18:16	1
Barium	0.45 J		0.50	0.050	mg/L		09/20/17 08:41	09/20/17 18:16	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/20/17 08:41	09/20/17 18:16	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/20/17 08:41	09/20/17 18:16	1
Chromium	<0.025		0.025	0.010	mg/L		09/20/17 08:41	09/20/17 18:16	1
Cobalt	0.013 J		0.025	0.010	mg/L		09/20/17 08:41	09/20/17 18:16	1
Copper	<0.025		0.025	0.010	mg/L		09/20/17 08:41	09/20/17 18:16	1
Iron	<0.40		0.40	0.20	mg/L		09/20/17 08:41	09/20/17 18:16	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/20/17 08:41	09/20/17 18:16	1
Manganese	2.4		0.025	0.010	mg/L		09/20/17 08:41	09/20/17 18:16	1
Nickel	0.029		0.025	0.010	mg/L		09/20/17 08:41	09/20/17 18:16	1
Selenium	<0.050		0.050	0.020	mg/L		09/20/17 08:41	09/20/17 18:16	1
Silver	<0.025		0.025	0.010	mg/L		09/20/17 08:41	09/20/17 18:16	1
Zinc	<0.50		0.50	0.020	mg/L		09/20/17 08:41	09/20/17 18:16	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		09/20/17 16:55	09/21/17 23:43	1
Barium	0.054 J		0.50	0.050	mg/L		09/20/17 16:55	09/21/17 23:43	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/20/17 16:55	09/21/17 23:43	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/20/17 16:55	09/21/17 23:43	1
Chromium	0.014 J		0.025	0.010	mg/L		09/20/17 16:55	09/21/17 23:43	1
Cobalt	<0.025		0.025	0.010	mg/L		09/20/17 16:55	09/21/17 23:43	1
Copper	<0.025		0.025	0.010	mg/L		09/20/17 16:55	09/21/17 23:43	1
Iron	7.6		0.40	0.20	mg/L		09/20/17 16:55	09/21/17 23:43	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/20/17 16:55	09/21/17 23:43	1
Manganese	0.10		0.025	0.010	mg/L		09/20/17 16:55	09/21/17 23:43	1
Nickel	0.012 J		0.025	0.010	mg/L		09/20/17 16:55	09/21/17 23:43	1
Selenium	<0.050		0.050	0.020	mg/L		09/20/17 16:55	09/21/17 23:43	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134188-1

Client Sample ID: FH-11(38-46)-091817

Lab Sample ID: 500-134188-2

Date Collected: 09/18/17 15:24

Matrix: Solid

Date Received: 09/18/17 17:35

Percent Solids: 85.3

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		09/20/17 16:55	09/21/17 23:43	1
Zinc	0.022	J	0.50	0.020	mg/L		09/20/17 16:55	09/21/17 23:43	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.45	J B	1.1	0.21	mg/Kg	☼	09/19/17 15:46	09/20/17 16:21	1
Arsenic	4.9		0.55	0.19	mg/Kg	☼	09/19/17 15:46	09/20/17 16:21	1
Barium	39		0.55	0.063	mg/Kg	☼	09/19/17 15:46	09/20/17 16:21	1
Beryllium	0.61		0.22	0.052	mg/Kg	☼	09/19/17 15:46	09/20/17 16:21	1
Cadmium	0.033	J B	0.11	0.020	mg/Kg	☼	09/19/17 15:46	09/20/17 16:21	1
Calcium	60000	B	110	19	mg/Kg	☼	09/19/17 15:46	09/21/17 13:38	10
Chromium	16		0.55	0.27	mg/Kg	☼	09/19/17 15:46	09/20/17 16:21	1
Cobalt	12		0.28	0.072	mg/Kg	☼	09/19/17 15:46	09/20/17 16:21	1
Copper	20		0.55	0.15	mg/Kg	☼	09/19/17 15:46	09/20/17 16:21	1
Iron	18000		11	5.7	mg/Kg	☼	09/19/17 15:46	09/20/17 16:21	1
Lead	12		0.28	0.13	mg/Kg	☼	09/19/17 15:46	09/20/17 16:21	1
Magnesium	23000	B	5.5	2.7	mg/Kg	☼	09/19/17 15:46	09/20/17 16:21	1
Manganese	330		0.55	0.080	mg/Kg	☼	09/19/17 15:46	09/20/17 16:21	1
Nickel	30		0.55	0.16	mg/Kg	☼	09/19/17 15:46	09/20/17 16:21	1
Potassium	2700		28	9.8	mg/Kg	☼	09/19/17 15:46	09/20/17 16:21	1
Selenium	<0.55		0.55	0.32	mg/Kg	☼	09/19/17 15:46	09/20/17 16:21	1
Silver	<0.28		0.28	0.071	mg/Kg	☼	09/19/17 15:46	09/20/17 16:21	1
Sodium	210		55	8.2	mg/Kg	☼	09/19/17 15:46	09/20/17 16:21	1
Thallium	<0.55		0.55	0.28	mg/Kg	☼	09/19/17 15:46	09/20/17 16:21	1
Vanadium	18		0.28	0.065	mg/Kg	☼	09/19/17 15:46	09/20/17 16:21	1
Zinc	55		1.1	0.48	mg/Kg	☼	09/19/17 15:46	09/20/17 16:21	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		09/20/17 16:00	09/21/17 10:42	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		09/20/17 16:00	09/21/17 10:56	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	30	B	17	5.7	ug/Kg	☼	09/22/17 16:20	09/25/17 11:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.2	H	0.20	0.20	SU			09/26/17 13:43	1

Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134188-1

Qualifiers

GC/MS VOA

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

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

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time

Glossary

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

Accreditation/Certification Summary

Client: Weston Solutions, Inc.

TestAmerica Job ID: 500-134188-1

Project/Site: IDOT - Eisenhower Expressway - WO 062

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Illinois	NELAP	5	100201	04-30-19

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

Analysis Method	Prep Method	Matrix	Analyte
8260B		Water	1,3-Dichloropropene, Total
8260B	5035	Solid	1,3-Dichloropropene, Total
9045D		Solid	pH
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

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: Babu.
Company: Weston Solutions
Address: 320 Plaza Cr. Ste 202
Mundelein, IL
Phone: 224-864-7200
Fax:
E-Mail:

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

Chain of Custody Record

Lab Job #: 500-134188
Chain of Custody Number:
Page 1 of 1
Temperature °C of Cooler: 49

Client		Client Project #		Preservative		Parameter		Sample Disposal		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
<u>Weston</u>				<u>1</u>	<u>8</u>	<u>3</u>				
Project Name <u>IDOT 0602 Eisenhower Expressway</u>		Lab Project #		Matrix		Containers		Comments		
Project Location/State <u>Forest Park, IL</u>		Lab PM <u>R. Wright</u>		Date		Time		# of Containers		
Sampler <u>K. Frey</u>		Sample ID		Date		Time		Matrix		
<u>3</u>	<u>FH-16-091817</u>	<u>9/18/17</u>	<u>1347</u>	<u>6</u>	<u>W</u>	<u>X</u>	<u>X</u>	<u>X</u>		
<u>4</u>	<u>FH-16-091817D</u>	<u>9/18/17</u>	<u>1347</u>	<u>6</u>	<u>W</u>	<u>X</u>	<u>X</u>	<u>X</u>		
<u>5</u>	<u>Trip Blank</u>	<u>9/18/17</u>	<u>1545</u>	<u>2</u>	<u>W</u>	<u>X</u>				

Turnaround Time Required (Business Days)

1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other

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 <u>[Signature]</u>	Company <u>Weston</u>	Date <u>9/18/17</u>	Time <u>1548</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>9/18/17</u>	Time <u>1548</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>9/18/17</u>	Time <u>1735</u>	Received By <u>[Signature]</u>	Company <u>TA-CRI</u>	Date <u>9/19/17</u>	Time <u>0730</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: JTA
Shipped:
Hand Delivered:

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

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: 500-134432-1

Client Project/Site: IDOT - Eisenhower Expressway - WO 062

For:

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

Attn: Mr. S. Babusukumar



Authorized for release by:
9/29/2017 1:18:18 PM

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

LINKS

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134432-1

Client Sample ID: FH-13(54-62)-092017

Lab Sample ID: 500-134432-1

Date Collected: 09/20/17 15:20

Matrix: Solid

Date Received: 09/21/17 16:15

Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	26	*	16	6.9	ug/Kg	☼	09/22/17 08:20	09/25/17 13:40	1
Benzene	<1.6		1.6	0.40	ug/Kg	☼	09/22/17 08:20	09/25/17 13:40	1
Bromodichloromethane	<1.6		1.6	0.32	ug/Kg	☼	09/22/17 08:20	09/25/17 13:40	1
Bromoform	<1.6		1.6	0.46	ug/Kg	☼	09/22/17 08:20	09/25/17 13:40	1
Bromomethane	<3.9		3.9	1.5	ug/Kg	☼	09/22/17 08:20	09/25/17 13:40	1
Carbon disulfide	<3.9		3.9	0.82	ug/Kg	☼	09/22/17 08:20	09/25/17 13:40	1
Carbon tetrachloride	<1.6		1.6	0.46	ug/Kg	☼	09/22/17 08:20	09/25/17 13:40	1
Chlorobenzene	<1.6		1.6	0.58	ug/Kg	☼	09/22/17 08:20	09/25/17 13:40	1
Chloroethane	<3.9		3.9	1.2	ug/Kg	☼	09/22/17 08:20	09/25/17 13:40	1
Chloroform	<1.6		1.6	0.55	ug/Kg	☼	09/22/17 08:20	09/25/17 13:40	1
Chloromethane	<3.9		3.9	1.6	ug/Kg	☼	09/22/17 08:20	09/25/17 13:40	1
cis-1,2-Dichloroethene	<1.6		1.6	0.44	ug/Kg	☼	09/22/17 08:20	09/25/17 13:40	1
cis-1,3-Dichloropropene	<1.6		1.6	0.48	ug/Kg	☼	09/22/17 08:20	09/25/17 13:40	1
Dibromochloromethane	<1.6		1.6	0.52	ug/Kg	☼	09/22/17 08:20	09/25/17 13:40	1
1,1-Dichloroethane	<1.6		1.6	0.54	ug/Kg	☼	09/22/17 08:20	09/25/17 13:40	1
1,2-Dichloroethane	<3.9		3.9	1.2	ug/Kg	☼	09/22/17 08:20	09/25/17 13:40	1
1,1-Dichloroethene	<1.6		1.6	0.54	ug/Kg	☼	09/22/17 08:20	09/25/17 13:40	1
1,2-Dichloropropane	<1.6		1.6	0.41	ug/Kg	☼	09/22/17 08:20	09/25/17 13:40	1
1,3-Dichloropropene, Total	<1.6		1.6	0.55	ug/Kg	☼	09/22/17 08:20	09/25/17 13:40	1
Ethylbenzene	<1.6		1.6	0.76	ug/Kg	☼	09/22/17 08:20	09/25/17 13:40	1
2-Hexanone	<3.9		3.9	1.2	ug/Kg	☼	09/22/17 08:20	09/25/17 13:40	1
Methylene Chloride	<3.9		3.9	1.6	ug/Kg	☼	09/22/17 08:20	09/25/17 13:40	1
Methyl Ethyl Ketone	<3.9		3.9	1.8	ug/Kg	☼	09/22/17 08:20	09/25/17 13:40	1
methyl isobutyl ketone	<3.9		3.9	1.2	ug/Kg	☼	09/22/17 08:20	09/25/17 13:40	1
Methyl tert-butyl ether	<1.6		1.6	0.46	ug/Kg	☼	09/22/17 08:20	09/25/17 13:40	1
Styrene	<1.6		1.6	0.48	ug/Kg	☼	09/22/17 08:20	09/25/17 13:40	1
1,1,2,2-Tetrachloroethane	<1.6		1.6	0.50	ug/Kg	☼	09/22/17 08:20	09/25/17 13:40	1
Tetrachloroethene	<1.6		1.6	0.54	ug/Kg	☼	09/22/17 08:20	09/25/17 13:40	1
Toluene	<1.6		1.6	0.40	ug/Kg	☼	09/22/17 08:20	09/25/17 13:40	1
trans-1,2-Dichloroethene	<1.6		1.6	0.70	ug/Kg	☼	09/22/17 08:20	09/25/17 13:40	1
trans-1,3-Dichloropropene	<1.6		1.6	0.55	ug/Kg	☼	09/22/17 08:20	09/25/17 13:40	1
1,1,1-Trichloroethane	<1.6		1.6	0.53	ug/Kg	☼	09/22/17 08:20	09/25/17 13:40	1
1,1,2-Trichloroethane	<1.6		1.6	0.68	ug/Kg	☼	09/22/17 08:20	09/25/17 13:40	1
Trichloroethene	<1.6		1.6	0.53	ug/Kg	☼	09/22/17 08:20	09/25/17 13:40	1
Vinyl chloride	<1.6		1.6	0.70	ug/Kg	☼	09/22/17 08:20	09/25/17 13:40	1
Xylenes, Total	<3.2		3.2	0.51	ug/Kg	☼	09/22/17 08:20	09/25/17 13:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		75 - 131	09/22/17 08:20	09/25/17 13:40	1
Dibromofluoromethane	101		75 - 126	09/22/17 08:20	09/25/17 13:40	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	09/22/17 08:20	09/25/17 13:40	1
Toluene-d8 (Surr)	102		75 - 124	09/22/17 08:20	09/25/17 13:40	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	☼	09/27/17 07:02	09/28/17 20:18	1
1,2-Dichlorobenzene	<190		190	44	ug/Kg	☼	09/27/17 07:02	09/28/17 20:18	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	09/27/17 07:02	09/28/17 20:18	1
1,4-Dichlorobenzene	<190		190	47	ug/Kg	☼	09/27/17 07:02	09/28/17 20:18	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	09/27/17 07:02	09/28/17 20:18	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134432-1

Client Sample ID: FH-13(54-62)-092017

Lab Sample ID: 500-134432-1

Date Collected: 09/20/17 15:20

Matrix: Solid

Date Received: 09/21/17 16:15

Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	84	ug/Kg	☼	09/27/17 07:02	09/28/17 20:18	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	09/27/17 07:02	09/28/17 20:18	1
2,4-Dichlorophenol	<370		370	88	ug/Kg	☼	09/27/17 07:02	09/28/17 20:18	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	09/27/17 07:02	09/28/17 20:18	1
2,4-Dinitrophenol	<750	F1	750	650	ug/Kg	☼	09/27/17 07:02	09/28/17 20:18	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	09/27/17 07:02	09/28/17 20:18	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	09/27/17 07:02	09/28/17 20:18	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	09/27/17 07:02	09/28/17 20:18	1
2-Chlorophenol	<190		190	63	ug/Kg	☼	09/27/17 07:02	09/28/17 20:18	1
2-Methylnaphthalene	53	J	75	6.8	ug/Kg	☼	09/27/17 07:02	09/28/17 20:18	1
2-Methylphenol	<190		190	59	ug/Kg	☼	09/27/17 07:02	09/28/17 20:18	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	09/27/17 07:02	09/28/17 20:18	1
2-Nitrophenol	<370		370	87	ug/Kg	☼	09/27/17 07:02	09/28/17 20:18	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	09/27/17 07:02	09/28/17 20:18	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	09/27/17 07:02	09/28/17 20:18	1
3-Nitroaniline	<370		370	110	ug/Kg	☼	09/27/17 07:02	09/28/17 20:18	1
4,6-Dinitro-2-methylphenol	<750	F1	750	300	ug/Kg	☼	09/27/17 07:02	09/28/17 20:18	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	09/27/17 07:02	09/28/17 20:18	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	09/27/17 07:02	09/28/17 20:18	1
4-Chloroaniline	<750		750	170	ug/Kg	☼	09/27/17 07:02	09/28/17 20:18	1
4-Chlorophenyl phenyl ether	<190		190	43	ug/Kg	☼	09/27/17 07:02	09/28/17 20:18	1
4-Nitroaniline	<370		370	150	ug/Kg	☼	09/27/17 07:02	09/28/17 20:18	1
4-Nitrophenol	<750	F1	750	350	ug/Kg	☼	09/27/17 07:02	09/28/17 20:18	1
Acenaphthene	7.5	J	37	6.6	ug/Kg	☼	09/27/17 07:02	09/28/17 20:18	1
Acenaphthylene	7.2	J	37	4.9	ug/Kg	☼	09/27/17 07:02	09/28/17 20:18	1
Anthracene	<37		37	6.2	ug/Kg	☼	09/27/17 07:02	09/28/17 20:18	1
Benzo[a]anthracene	<37		37	5.0	ug/Kg	☼	09/27/17 07:02	09/28/17 20:18	1
Benzo[a]pyrene	<37		37	7.2	ug/Kg	☼	09/27/17 07:02	09/28/17 20:18	1
Benzo[b]fluoranthene	<37		37	8.0	ug/Kg	☼	09/27/17 07:02	09/28/17 20:18	1
Benzo[g,h,i]perylene	<37	F1	37	12	ug/Kg	☼	09/27/17 07:02	09/28/17 20:18	1
Benzo[k]fluoranthene	<37		37	11	ug/Kg	☼	09/27/17 07:02	09/28/17 20:18	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	09/27/17 07:02	09/28/17 20:18	1
Bis(2-chloroethyl)ether	<190		190	55	ug/Kg	☼	09/27/17 07:02	09/28/17 20:18	1
Bis(2-ethylhexyl) phthalate	<190		190	68	ug/Kg	☼	09/27/17 07:02	09/28/17 20:18	1
Butyl benzyl phthalate	<190		190	70	ug/Kg	☼	09/27/17 07:02	09/28/17 20:18	1
Carbazole	<190		190	92	ug/Kg	☼	09/27/17 07:02	09/28/17 20:18	1
Chrysene	34	J	37	10	ug/Kg	☼	09/27/17 07:02	09/28/17 20:18	1
Dibenz(a,h)anthracene	<37	F1	37	7.1	ug/Kg	☼	09/27/17 07:02	09/28/17 20:18	1
Dibenzofuran	<190		190	43	ug/Kg	☼	09/27/17 07:02	09/28/17 20:18	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	09/27/17 07:02	09/28/17 20:18	1
Dimethyl phthalate	<190		190	48	ug/Kg	☼	09/27/17 07:02	09/28/17 20:18	1
Di-n-butyl phthalate	<190		190	56	ug/Kg	☼	09/27/17 07:02	09/28/17 20:18	1
Di-n-octyl phthalate	<190		190	60	ug/Kg	☼	09/27/17 07:02	09/28/17 20:18	1
Fluoranthene	7.1	J	37	6.9	ug/Kg	☼	09/27/17 07:02	09/28/17 20:18	1
Fluorene	<37		37	5.2	ug/Kg	☼	09/27/17 07:02	09/28/17 20:18	1
Hexachlorobenzene	<75		75	8.6	ug/Kg	☼	09/27/17 07:02	09/28/17 20:18	1
Hexachlorobutadiene	<190		190	58	ug/Kg	☼	09/27/17 07:02	09/28/17 20:18	1
Hexachlorocyclopentadiene	<750	F1	750	210	ug/Kg	☼	09/27/17 07:02	09/28/17 20:18	1
Hexachloroethane	<190	F1	190	56	ug/Kg	☼	09/27/17 07:02	09/28/17 20:18	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134432-1

Client Sample ID: FH-13(54-62)-092017

Lab Sample ID: 500-134432-1

Date Collected: 09/20/17 15:20

Matrix: Solid

Date Received: 09/21/17 16:15

Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<37	F1	37	9.6	ug/Kg	☼	09/27/17 07:02	09/28/17 20:18	1
Isophorone	<190		190	42	ug/Kg	☼	09/27/17 07:02	09/28/17 20:18	1
Naphthalene	13	J	37	5.7	ug/Kg	☼	09/27/17 07:02	09/28/17 20:18	1
Nitrobenzene	<37		37	9.2	ug/Kg	☼	09/27/17 07:02	09/28/17 20:18	1
N-Nitrosodi-n-propylamine	<75		75	45	ug/Kg	☼	09/27/17 07:02	09/28/17 20:18	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	09/27/17 07:02	09/28/17 20:18	1
Pentachlorophenol	<750		750	590	ug/Kg	☼	09/27/17 07:02	09/28/17 20:18	1
Phenanthrene	110		37	5.2	ug/Kg	☼	09/27/17 07:02	09/28/17 20:18	1
Phenol	<190		190	82	ug/Kg	☼	09/27/17 07:02	09/28/17 20:18	1
Pyrene	<37		37	7.3	ug/Kg	☼	09/27/17 07:02	09/28/17 20:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	68		25 - 139				09/27/17 07:02	09/28/17 20:18	1
2-Fluorobiphenyl	89		44 - 121				09/27/17 07:02	09/28/17 20:18	1
2-Fluorophenol	121		46 - 133				09/27/17 07:02	09/28/17 20:18	1
Nitrobenzene-d5	93		41 - 120				09/27/17 07:02	09/28/17 20:18	1
Phenol-d5	102		46 - 125				09/27/17 07:02	09/28/17 20:18	1
Terphenyl-d14	103		35 - 160				09/27/17 07:02	09/28/17 20:18	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		09/27/17 15:41	09/28/17 12:35	1
Barium	0.42	J	0.50	0.050	mg/L		09/27/17 15:41	09/28/17 12:35	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/27/17 15:41	09/28/17 12:35	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/27/17 15:41	09/28/17 12:35	1
Chromium	<0.025		0.025	0.010	mg/L		09/27/17 15:41	09/28/17 12:35	1
Cobalt	0.036		0.025	0.010	mg/L		09/27/17 15:41	09/28/17 12:35	1
Copper	0.11		0.025	0.010	mg/L		09/27/17 15:41	09/28/17 12:35	1
Iron	<0.40		0.40	0.20	mg/L		09/27/17 15:41	09/28/17 12:35	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/27/17 15:41	09/28/17 12:35	1
Manganese	2.5		0.025	0.010	mg/L		09/27/17 15:41	09/28/17 12:35	1
Nickel	0.077		0.025	0.010	mg/L		09/27/17 15:41	09/28/17 12:35	1
Selenium	<0.050		0.050	0.020	mg/L		09/27/17 15:41	09/28/17 12:35	1
Silver	<0.025		0.025	0.010	mg/L		09/27/17 15:41	09/28/17 12:35	1
Zinc	0.081	J	0.50	0.020	mg/L		09/27/17 15:41	09/28/17 12:35	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		09/27/17 15:43	09/28/17 12:37	1
Barium	<0.50		0.50	0.050	mg/L		09/27/17 15:43	09/28/17 12:37	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/27/17 15:43	09/28/17 12:37	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/27/17 15:43	09/28/17 12:37	1
Chromium	<0.025		0.025	0.010	mg/L		09/27/17 15:43	09/28/17 12:37	1
Cobalt	<0.025		0.025	0.010	mg/L		09/27/17 15:43	09/28/17 12:37	1
Copper	0.011	J B	0.025	0.010	mg/L		09/27/17 15:43	09/28/17 12:37	1
Iron	1.4		0.40	0.20	mg/L		09/27/17 15:43	09/28/17 12:37	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/27/17 15:43	09/28/17 12:37	1
Manganese	0.051		0.025	0.010	mg/L		09/27/17 15:43	09/28/17 12:37	1
Nickel	<0.025		0.025	0.010	mg/L		09/27/17 15:43	09/28/17 12:37	1
Selenium	<0.050		0.050	0.020	mg/L		09/27/17 15:43	09/28/17 12:37	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134432-1

Client Sample ID: FH-13(54-62)-092017

Lab Sample ID: 500-134432-1

Date Collected: 09/20/17 15:20

Matrix: Solid

Date Received: 09/21/17 16:15

Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		09/27/17 15:43	09/28/17 12:37	1
Zinc	0.025	J ^	0.50	0.020	mg/L		09/27/17 15:43	09/28/17 12:37	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.35	J F1	1.1	0.20	mg/Kg	☼	09/26/17 07:58	09/26/17 18:13	1
Arsenic	7.8		0.53	0.18	mg/Kg	☼	09/26/17 07:58	09/26/17 18:13	1
Barium	26		0.53	0.060	mg/Kg	☼	09/26/17 07:58	09/26/17 18:13	1
Beryllium	0.49		0.21	0.049	mg/Kg	☼	09/26/17 07:58	09/26/17 18:13	1
Cadmium	0.11		0.11	0.019	mg/Kg	☼	09/26/17 07:58	09/26/17 18:13	1
Calcium	68000	B	110	18	mg/Kg	☼	09/26/17 07:58	09/27/17 21:16	10
Chromium	14		0.53	0.26	mg/Kg	☼	09/26/17 07:58	09/26/17 18:13	1
Cobalt	15		0.26	0.069	mg/Kg	☼	09/26/17 07:58	09/26/17 18:13	1
Copper	28		0.53	0.15	mg/Kg	☼	09/26/17 07:58	09/26/17 18:13	1
Iron	19000	B	11	5.5	mg/Kg	☼	09/26/17 07:58	09/26/17 18:13	1
Lead	16	F1	0.26	0.12	mg/Kg	☼	09/26/17 07:58	09/26/17 18:13	1
Magnesium	25000	B	5.3	2.6	mg/Kg	☼	09/26/17 07:58	09/26/17 18:13	1
Manganese	350	B	0.53	0.076	mg/Kg	☼	09/26/17 07:58	09/26/17 18:13	1
Nickel	35		0.53	0.15	mg/Kg	☼	09/26/17 07:58	09/26/17 18:13	1
Potassium	2000	F1	26	9.3	mg/Kg	☼	09/26/17 07:58	09/26/17 18:13	1
Selenium	0.50	J F1	0.53	0.31	mg/Kg	☼	09/26/17 07:58	09/26/17 18:13	1
Silver	<0.26		0.26	0.068	mg/Kg	☼	09/26/17 07:58	09/26/17 18:13	1
Sodium	170		53	7.8	mg/Kg	☼	09/26/17 07:58	09/26/17 18:13	1
Thallium	0.26	J	0.53	0.26	mg/Kg	☼	09/26/17 07:58	09/26/17 18:13	1
Vanadium	15		0.26	0.062	mg/Kg	☼	09/26/17 07:58	09/26/17 18:13	1
Zinc	51		1.1	0.46	mg/Kg	☼	09/26/17 07:58	09/26/17 18:13	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		09/27/17 15:10	09/28/17 08:00	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		09/27/17 15:10	09/28/17 08:42	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	33		19	6.2	ug/Kg	☼	09/27/17 13:30	09/28/17 08:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.8		0.20	0.20	SU			09/26/17 21:04	1

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134432-1

Client Sample ID: FH-13(62-69)-092017

Lab Sample ID: 500-134432-2

Date Collected: 09/20/17 16:00

Matrix: Solid

Date Received: 09/21/17 16:15

Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	23	*	18	7.9	ug/Kg	☼	09/22/17 08:20	09/25/17 14:06	1
Benzene	<1.8		1.8	0.47	ug/Kg	☼	09/22/17 08:20	09/25/17 14:06	1
Bromodichloromethane	<1.8		1.8	0.37	ug/Kg	☼	09/22/17 08:20	09/25/17 14:06	1
Bromoform	<1.8		1.8	0.53	ug/Kg	☼	09/22/17 08:20	09/25/17 14:06	1
Bromomethane	<4.6		4.6	1.7	ug/Kg	☼	09/22/17 08:20	09/25/17 14:06	1
Carbon disulfide	<4.6		4.6	0.95	ug/Kg	☼	09/22/17 08:20	09/25/17 14:06	1
Carbon tetrachloride	<1.8		1.8	0.53	ug/Kg	☼	09/22/17 08:20	09/25/17 14:06	1
Chlorobenzene	<1.8		1.8	0.67	ug/Kg	☼	09/22/17 08:20	09/25/17 14:06	1
Chloroethane	<4.6		4.6	1.4	ug/Kg	☼	09/22/17 08:20	09/25/17 14:06	1
Chloroform	<1.8		1.8	0.63	ug/Kg	☼	09/22/17 08:20	09/25/17 14:06	1
Chloromethane	<4.6		4.6	1.8	ug/Kg	☼	09/22/17 08:20	09/25/17 14:06	1
cis-1,2-Dichloroethene	<1.8		1.8	0.51	ug/Kg	☼	09/22/17 08:20	09/25/17 14:06	1
cis-1,3-Dichloropropene	<1.8		1.8	0.55	ug/Kg	☼	09/22/17 08:20	09/25/17 14:06	1
Dibromochloromethane	<1.8		1.8	0.60	ug/Kg	☼	09/22/17 08:20	09/25/17 14:06	1
1,1-Dichloroethane	<1.8		1.8	0.62	ug/Kg	☼	09/22/17 08:20	09/25/17 14:06	1
1,2-Dichloroethane	<4.6		4.6	1.4	ug/Kg	☼	09/22/17 08:20	09/25/17 14:06	1
1,1-Dichloroethene	<1.8		1.8	0.63	ug/Kg	☼	09/22/17 08:20	09/25/17 14:06	1
1,2-Dichloropropane	<1.8		1.8	0.47	ug/Kg	☼	09/22/17 08:20	09/25/17 14:06	1
1,3-Dichloropropane, Total	<1.8		1.8	0.64	ug/Kg	☼	09/22/17 08:20	09/25/17 14:06	1
Ethylbenzene	<1.8		1.8	0.87	ug/Kg	☼	09/22/17 08:20	09/25/17 14:06	1
2-Hexanone	<4.6		4.6	1.4	ug/Kg	☼	09/22/17 08:20	09/25/17 14:06	1
Methylene Chloride	<4.6		4.6	1.8	ug/Kg	☼	09/22/17 08:20	09/25/17 14:06	1
Methyl Ethyl Ketone	<4.6		4.6	2.0	ug/Kg	☼	09/22/17 08:20	09/25/17 14:06	1
methyl isobutyl ketone	<4.6		4.6	1.4	ug/Kg	☼	09/22/17 08:20	09/25/17 14:06	1
Methyl tert-butyl ether	<1.8		1.8	0.54	ug/Kg	☼	09/22/17 08:20	09/25/17 14:06	1
Styrene	<1.8		1.8	0.55	ug/Kg	☼	09/22/17 08:20	09/25/17 14:06	1
1,1,2,2-Tetrachloroethane	<1.8		1.8	0.58	ug/Kg	☼	09/22/17 08:20	09/25/17 14:06	1
Tetrachloroethene	<1.8		1.8	0.62	ug/Kg	☼	09/22/17 08:20	09/25/17 14:06	1
Toluene	<1.8		1.8	0.46	ug/Kg	☼	09/22/17 08:20	09/25/17 14:06	1
trans-1,2-Dichloroethene	<1.8		1.8	0.81	ug/Kg	☼	09/22/17 08:20	09/25/17 14:06	1
trans-1,3-Dichloropropene	<1.8		1.8	0.64	ug/Kg	☼	09/22/17 08:20	09/25/17 14:06	1
1,1,1-Trichloroethane	<1.8		1.8	0.61	ug/Kg	☼	09/22/17 08:20	09/25/17 14:06	1
1,1,2-Trichloroethane	<1.8		1.8	0.78	ug/Kg	☼	09/22/17 08:20	09/25/17 14:06	1
Trichloroethene	<1.8		1.8	0.62	ug/Kg	☼	09/22/17 08:20	09/25/17 14:06	1
Vinyl chloride	<1.8		1.8	0.81	ug/Kg	☼	09/22/17 08:20	09/25/17 14:06	1
Xylenes, Total	<3.6		3.6	0.58	ug/Kg	☼	09/22/17 08:20	09/25/17 14:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		75 - 131	09/22/17 08:20	09/25/17 14:06	1
4-Bromofluorobenzene (Surr)	86		75 - 131	09/22/17 08:20	09/26/17 16:10	1
Dibromofluoromethane	100		75 - 126	09/22/17 08:20	09/25/17 14:06	1
Dibromofluoromethane	96		75 - 126	09/22/17 08:20	09/26/17 16:10	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134	09/22/17 08:20	09/25/17 14:06	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	09/22/17 08:20	09/26/17 16:10	1
Toluene-d8 (Surr)	109		75 - 124	09/22/17 08:20	09/25/17 14:06	1
Toluene-d8 (Surr)	110		75 - 124	09/22/17 08:20	09/26/17 16:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<200		200	42	ug/Kg	☼	09/27/17 07:02	09/28/17 19:52	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134432-1

Client Sample ID: FH-13(62-69)-092017

Lab Sample ID: 500-134432-2

Date Collected: 09/20/17 16:00

Matrix: Solid

Date Received: 09/21/17 16:15

Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<200		200	47	ug/Kg	☼	09/27/17 07:02	09/28/17 19:52	1
1,3-Dichlorobenzene	<200		200	44	ug/Kg	☼	09/27/17 07:02	09/28/17 19:52	1
1,4-Dichlorobenzene	<200		200	50	ug/Kg	☼	09/27/17 07:02	09/28/17 19:52	1
2,2'-oxybis[1-chloropropane]	<200		200	45	ug/Kg	☼	09/27/17 07:02	09/28/17 19:52	1
2,4,5-Trichlorophenol	<390		390	89	ug/Kg	☼	09/27/17 07:02	09/28/17 19:52	1
2,4,6-Trichlorophenol	<390		390	130	ug/Kg	☼	09/27/17 07:02	09/28/17 19:52	1
2,4-Dichlorophenol	<390		390	93	ug/Kg	☼	09/27/17 07:02	09/28/17 19:52	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	09/27/17 07:02	09/28/17 19:52	1
2,4-Dinitrophenol	<790		790	690	ug/Kg	☼	09/27/17 07:02	09/28/17 19:52	1
2,4-Dinitrotoluene	<200		200	62	ug/Kg	☼	09/27/17 07:02	09/28/17 19:52	1
2,6-Dinitrotoluene	<200		200	77	ug/Kg	☼	09/27/17 07:02	09/28/17 19:52	1
2-Chloronaphthalene	<200		200	43	ug/Kg	☼	09/27/17 07:02	09/28/17 19:52	1
2-Chlorophenol	<200		200	67	ug/Kg	☼	09/27/17 07:02	09/28/17 19:52	1
2-Methylnaphthalene	14	J	79	7.2	ug/Kg	☼	09/27/17 07:02	09/28/17 19:52	1
2-Methylphenol	<200		200	63	ug/Kg	☼	09/27/17 07:02	09/28/17 19:52	1
2-Nitroaniline	<200		200	53	ug/Kg	☼	09/27/17 07:02	09/28/17 19:52	1
2-Nitrophenol	<390		390	92	ug/Kg	☼	09/27/17 07:02	09/28/17 19:52	1
3 & 4 Methylphenol	<200		200	65	ug/Kg	☼	09/27/17 07:02	09/28/17 19:52	1
3,3'-Dichlorobenzidine	<200		200	55	ug/Kg	☼	09/27/17 07:02	09/28/17 19:52	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	09/27/17 07:02	09/28/17 19:52	1
4,6-Dinitro-2-methylphenol	<790		790	310	ug/Kg	☼	09/27/17 07:02	09/28/17 19:52	1
4-Bromophenyl phenyl ether	<200		200	51	ug/Kg	☼	09/27/17 07:02	09/28/17 19:52	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	09/27/17 07:02	09/28/17 19:52	1
4-Chloroaniline	<790		790	180	ug/Kg	☼	09/27/17 07:02	09/28/17 19:52	1
4-Chlorophenyl phenyl ether	<200		200	46	ug/Kg	☼	09/27/17 07:02	09/28/17 19:52	1
4-Nitroaniline	<390		390	160	ug/Kg	☼	09/27/17 07:02	09/28/17 19:52	1
4-Nitrophenol	<790		790	370	ug/Kg	☼	09/27/17 07:02	09/28/17 19:52	1
Acenaphthene	11	J	39	7.0	ug/Kg	☼	09/27/17 07:02	09/28/17 19:52	1
Acenaphthylene	<39		39	5.1	ug/Kg	☼	09/27/17 07:02	09/28/17 19:52	1
Anthracene	<39		39	6.5	ug/Kg	☼	09/27/17 07:02	09/28/17 19:52	1
Benzo[a]anthracene	<39		39	5.3	ug/Kg	☼	09/27/17 07:02	09/28/17 19:52	1
Benzo[a]pyrene	<39		39	7.6	ug/Kg	☼	09/27/17 07:02	09/28/17 19:52	1
Benzo[b]fluoranthene	<39		39	8.4	ug/Kg	☼	09/27/17 07:02	09/28/17 19:52	1
Benzo[g,h,i]perylene	<39		39	13	ug/Kg	☼	09/27/17 07:02	09/28/17 19:52	1
Benzo[k]fluoranthene	<39		39	11	ug/Kg	☼	09/27/17 07:02	09/28/17 19:52	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	☼	09/27/17 07:02	09/28/17 19:52	1
Bis(2-chloroethyl)ether	<200		200	58	ug/Kg	☼	09/27/17 07:02	09/28/17 19:52	1
Bis(2-ethylhexyl) phthalate	96	J	200	71	ug/Kg	☼	09/27/17 07:02	09/28/17 19:52	1
Butyl benzyl phthalate	<200		200	74	ug/Kg	☼	09/27/17 07:02	09/28/17 19:52	1
Carbazole	<200		200	97	ug/Kg	☼	09/27/17 07:02	09/28/17 19:52	1
Chrysene	28	J	39	11	ug/Kg	☼	09/27/17 07:02	09/28/17 19:52	1
Dibenz(a,h)anthracene	<39		39	7.5	ug/Kg	☼	09/27/17 07:02	09/28/17 19:52	1
Dibenzofuran	<200		200	46	ug/Kg	☼	09/27/17 07:02	09/28/17 19:52	1
Diethyl phthalate	<200		200	66	ug/Kg	☼	09/27/17 07:02	09/28/17 19:52	1
Dimethyl phthalate	<200		200	51	ug/Kg	☼	09/27/17 07:02	09/28/17 19:52	1
Di-n-butyl phthalate	<200		200	59	ug/Kg	☼	09/27/17 07:02	09/28/17 19:52	1
Di-n-octyl phthalate	<200		200	64	ug/Kg	☼	09/27/17 07:02	09/28/17 19:52	1
Fluoranthene	11	J	39	7.2	ug/Kg	☼	09/27/17 07:02	09/28/17 19:52	1
Fluorene	<39		39	5.5	ug/Kg	☼	09/27/17 07:02	09/28/17 19:52	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134432-1

Client Sample ID: FH-13(62-69)-092017

Lab Sample ID: 500-134432-2

Date Collected: 09/20/17 16:00

Matrix: Solid

Date Received: 09/21/17 16:15

Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	<79		79	9.0	ug/Kg	☼	09/27/17 07:02	09/28/17 19:52	1
Hexachlorobutadiene	<200		200	61	ug/Kg	☼	09/27/17 07:02	09/28/17 19:52	1
Hexachlorocyclopentadiene	<790		790	220	ug/Kg	☼	09/27/17 07:02	09/28/17 19:52	1
Hexachloroethane	<200		200	59	ug/Kg	☼	09/27/17 07:02	09/28/17 19:52	1
Indeno[1,2,3-cd]pyrene	<39		39	10	ug/Kg	☼	09/27/17 07:02	09/28/17 19:52	1
Isophorone	<200		200	44	ug/Kg	☼	09/27/17 07:02	09/28/17 19:52	1
Naphthalene	6.1	J	39	6.0	ug/Kg	☼	09/27/17 07:02	09/28/17 19:52	1
Nitrobenzene	<39		39	9.7	ug/Kg	☼	09/27/17 07:02	09/28/17 19:52	1
N-Nitrosodi-n-propylamine	<79		79	48	ug/Kg	☼	09/27/17 07:02	09/28/17 19:52	1
N-Nitrosodiphenylamine	<200		200	46	ug/Kg	☼	09/27/17 07:02	09/28/17 19:52	1
Pentachlorophenol	<790		790	630	ug/Kg	☼	09/27/17 07:02	09/28/17 19:52	1
Phenanthrene	49		39	5.4	ug/Kg	☼	09/27/17 07:02	09/28/17 19:52	1
Phenol	<200		200	87	ug/Kg	☼	09/27/17 07:02	09/28/17 19:52	1
Pyrene	<39		39	7.8	ug/Kg	☼	09/27/17 07:02	09/28/17 19:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	65		25 - 139	09/27/17 07:02	09/28/17 19:52	1
2-Fluorobiphenyl	84		44 - 121	09/27/17 07:02	09/28/17 19:52	1
2-Fluorophenol	112		46 - 133	09/27/17 07:02	09/28/17 19:52	1
Nitrobenzene-d5	87		41 - 120	09/27/17 07:02	09/28/17 19:52	1
Phenol-d5	100		46 - 125	09/27/17 07:02	09/28/17 19:52	1
Terphenyl-d14	96		35 - 160	09/27/17 07:02	09/28/17 19:52	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/27/17 15:41	09/28/17 12:39	1
Barium	0.27	J	0.50	0.050	mg/L		09/27/17 15:41	09/28/17 12:39	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/27/17 15:41	09/28/17 12:39	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/27/17 15:41	09/28/17 12:39	1
Chromium	<0.025		0.025	0.010	mg/L		09/27/17 15:41	09/28/17 12:39	1
Cobalt	0.030		0.025	0.010	mg/L		09/27/17 15:41	09/28/17 12:39	1
Copper	0.018	J	0.025	0.010	mg/L		09/27/17 15:41	09/28/17 12:39	1
Iron	<0.40		0.40	0.20	mg/L		09/27/17 15:41	09/28/17 12:39	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/27/17 15:41	09/28/17 12:39	1
Manganese	2.8		0.025	0.010	mg/L		09/27/17 15:41	09/28/17 12:39	1
Nickel	0.059		0.025	0.010	mg/L		09/27/17 15:41	09/28/17 12:39	1
Selenium	<0.050		0.050	0.020	mg/L		09/27/17 15:41	09/28/17 12:39	1
Silver	<0.025		0.025	0.010	mg/L		09/27/17 15:41	09/28/17 12:39	1
Zinc	0.045	J	0.50	0.020	mg/L		09/27/17 15:41	09/28/17 12:39	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		09/27/17 15:43	09/28/17 12:41	1
Barium	<0.50		0.50	0.050	mg/L		09/27/17 15:43	09/28/17 12:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/27/17 15:43	09/28/17 12:41	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/27/17 15:43	09/28/17 12:41	1
Chromium	<0.025		0.025	0.010	mg/L		09/27/17 15:43	09/28/17 12:41	1
Cobalt	<0.025		0.025	0.010	mg/L		09/27/17 15:43	09/28/17 12:41	1
Copper	0.019	J B	0.025	0.010	mg/L		09/27/17 15:43	09/28/17 12:41	1
Iron	2.3		0.40	0.20	mg/L		09/27/17 15:43	09/28/17 12:41	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134432-1

Client Sample ID: FH-13(62-69)-092017

Lab Sample ID: 500-134432-2

Date Collected: 09/20/17 16:00

Matrix: Solid

Date Received: 09/21/17 16:15

Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		09/27/17 15:43	09/28/17 12:41	1
Manganese	0.054		0.025	0.010	mg/L		09/27/17 15:43	09/28/17 12:41	1
Nickel	<0.025		0.025	0.010	mg/L		09/27/17 15:43	09/28/17 12:41	1
Selenium	<0.050		0.050	0.020	mg/L		09/27/17 15:43	09/28/17 12:41	1
Silver	<0.025		0.025	0.010	mg/L		09/27/17 15:43	09/28/17 12:41	1
Zinc	<0.50	^	0.50	0.020	mg/L		09/27/17 15:43	09/28/17 12:41	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.35	J	1.2	0.23	mg/Kg	☼	09/26/17 07:58	09/26/17 18:40	1
Arsenic	10		0.58	0.20	mg/Kg	☼	09/26/17 07:58	09/26/17 18:40	1
Barium	13		0.58	0.066	mg/Kg	☼	09/26/17 07:58	09/26/17 18:40	1
Beryllium	0.27		0.23	0.054	mg/Kg	☼	09/26/17 07:58	09/26/17 18:40	1
Cadmium	0.13		0.12	0.021	mg/Kg	☼	09/26/17 07:58	09/26/17 18:40	1
Calcium	69000	B	120	20	mg/Kg	☼	09/26/17 07:58	09/27/17 21:44	10
Chromium	8.2		0.58	0.29	mg/Kg	☼	09/26/17 07:58	09/26/17 18:40	1
Cobalt	11		0.29	0.076	mg/Kg	☼	09/26/17 07:58	09/26/17 18:40	1
Copper	27		0.58	0.16	mg/Kg	☼	09/26/17 07:58	09/26/17 18:40	1
Iron	15000	B	12	6.0	mg/Kg	☼	09/26/17 07:58	09/26/17 18:40	1
Lead	15		0.29	0.13	mg/Kg	☼	09/26/17 07:58	09/26/17 18:40	1
Magnesium	30000	B	5.8	2.9	mg/Kg	☼	09/26/17 07:58	09/26/17 18:40	1
Manganese	340	B	0.58	0.084	mg/Kg	☼	09/26/17 07:58	09/26/17 18:40	1
Nickel	24		0.58	0.17	mg/Kg	☼	09/26/17 07:58	09/26/17 18:40	1
Potassium	1000		29	10	mg/Kg	☼	09/26/17 07:58	09/26/17 18:40	1
Selenium	<0.58		0.58	0.34	mg/Kg	☼	09/26/17 07:58	09/26/17 18:40	1
Silver	<0.29		0.29	0.075	mg/Kg	☼	09/26/17 07:58	09/26/17 18:40	1
Sodium	160		58	8.6	mg/Kg	☼	09/26/17 07:58	09/26/17 18:40	1
Thallium	0.64		0.58	0.29	mg/Kg	☼	09/26/17 07:58	09/26/17 18:40	1
Vanadium	9.7		0.29	0.068	mg/Kg	☼	09/26/17 07:58	09/26/17 18:40	1
Zinc	43		1.2	0.51	mg/Kg	☼	09/26/17 07:58	09/26/17 18:40	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		09/27/17 15:10	09/28/17 08:01	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		09/27/17 15:10	09/28/17 08:47	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	32		20	6.7	ug/Kg	☼	09/27/17 13:30	09/28/17 08:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.2		0.20	0.20	SU			09/26/17 21:25	1

Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134432-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

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.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
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.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Weston Solutions, Inc.

TestAmerica Job ID: 500-134432-1

Project/Site: IDOT - Eisenhower Expressway - WO 062

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Illinois	NELAP	5	100201	04-30-19

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

Analysis Method	Prep Method	Matrix	Analyte
8260B	5035	Solid	1,3-Dichloropropene, Total
9045D		Solid	pH
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

TestAmerica

THE LEADER IN ENVIRONMENTAL

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



500-134432 COC

Report To (optional)
Contact: Bubon
Company: Weston Solutions
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: _____

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

Chain of Custody Record

Lab Job #: 500-134432
Chain of Custody Number: _____
Page 1 of 5
Temperature of Cooler: 24, 30, 21, 37, 42

Client		Client Project #		Preservative		Parameter		Matrix		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	
Project Name		Lab Project #		Parameter		Matrix		Comments			
Project Location/State		Lab Project #		Parameter		Matrix					
weston solutions				9	8	8	8	8			
IDOT - OSL - Eisenhower Expressway											
Forest Park, IL											
J Mod/K. Fry		K. Wright									
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOC	SVOC	total metals	TRUP/SPLP Metals	PH
1		FH-13(54-62)-092017	09-20-17	1520	6 S	S	X	X	X	X	X
2		FH-13(62-69)-092017	09-20-17	1600	6 S	S	X	X	X	X	X
3		FH-9(10-15)-092017		1555	6 S	S	X	X	X	X	X
4		FH-9(15-20)-092017		1602	6 S	S	X	X	X	X	X
5		FH-9(20-25)-092017		1610	6 S	S	X	X	X	X	X
6		FH-9(25-30)-092017		1620	6 S	S	X	X	X	X	X
7		FH-9(32-35)-092017		1624	6 S	S	X	X	X	X	X
8		FH-12(0-5)-092117	9/21/17	0819	6 S	S	X	X	X	X	X
9		FH-12(5-10)-092117		0825	6 S	S	X	X	X	X	X
10		FH-12(5-10)-092117		0825	6 S	S	X	X	X	X	X

Turnaround Time Required (Business Days)

___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days 10 Days ___ 15 Days ___ Other

Requested Due Date _____

Sample Disposal

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

Relinquished By <u>[Signature]</u>	Company weston	Date 9/21/17	Time 1514	Received By <u>P. Neal</u>	Company TA	Date 9/21/17	Time 1514
Relinquished By <u>P. Neal</u>	Company TA	Date 9/21/17	Time 1615	Received By <u>[Signature]</u>	Company TA-CH	Date 9/22/17	Time 0730
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TA
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

Report To (optional)
Contact: Babu
Company: Weston
Address: 300 Plaza Cr. Ste 202
Address: Bundelein, IL 60060
Phone: 224-804-7200
Fax:
E-Mail:

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

Chain of Custody Record

Lab Job #: 500-134432
Chain of Custody Number:
Page 2 of 5
Temperature of Cooler: 24, 30, 21, 3, 7, 4, 2

Client		Client Project #		Preservative		9		8		8		8		8		8		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
Project Name		Lab Project #		Parameter		VOL		SVOC		Total Metals		TEP/SELP Metals		pH		Comments		
Project Location/State		Lab PM																
Sampler																		
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix												
11		FH-12(10-15)-092117	9/21/17	0837	6	S	X	X	X	X	X							
12		FH-12(15-20)-092117		0845	6	S	X	X	X	X	X							
13		FH-12(20-25)-092117		0853	6	S	X	X	X	X	X							
14		FH-12(25-30)-092117		0900	6	S	X	X	X	X	X							
15		FH-12(30-35)-092117		0910	6	S	X	X	X	X	X							
16		FH-15(0-5)-092117		0935	6	S	X	X	X	X	X							
17		FH-15(5-10)-092117		0942	6	S	X	X	X	X	X							
18		FH-15(10-15)-092117		0950	6	S	X	X	X	X	X							
		FH-15(15-19)-092117																
19		FH-15(15-19)-092117	9/21/17	0958	6	S	X	X	X	X	X							

Turnaround Time Required (Business Days)

1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other

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: <u>[Signature]</u> Company: <u>Weston</u> Date: <u>9/21/17</u> Time: <u>1514</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>9/21/17</u> Time: <u>1514</u>
Relinquished By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>9/21/17</u> Time: <u>1615</u>	Received By: <u>[Signature]</u> Company: <u>TA-OPE</u> Date: <u>9/22/17</u> Time: <u>0730</u>
Relinquished By: _____ Company: _____ Date: _____ Time: _____	Received By: _____ Company: _____ Date: _____ Time: _____

Lab Courier: TA
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

Report To (optional)
Contact: Babu
Company: Weston
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: _____

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

Chain of Custody Record

Lab Job #: 500-134432

Chain of Custody Number: _____

Page 5 of 5

Temperature °C of cooler: 24.30, 21, 37, 42

Client		Client Project #		Preservative		Parameter		Preservative Key			
<u>Weston</u>				<u>9</u>	<u>8</u>	<u>7</u>	<u>6</u>	<u>5</u>	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		
Project Name		Lab Project #		Parameter		Parameter					
<u>IDOT 002 Eisenhower Expressway</u>											
Project Location/State		Lab Project #		Parameter		Parameter					
<u>Forest Park, IL</u>											
Sampler		Lab PM		Parameter		Parameter					
<u>K. Frey</u>		<u>R. Wright</u>									
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	Parameter	Parameter	Parameter	Comments	
			Date	Time							
<u>20</u>		<u>PH-21 (20-25)-092117</u>	<u>9/21/17</u>	<u>1445</u>	<u>6</u>	<u>S</u>	<u>VOC</u>	<u>SVOC</u>	<u>Total Metals</u>	<u>TOLP/SEP METALS</u>	<u>PH</u>
							<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>

Turnaround Time Required (Business Days)

1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other

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 <u>Babu</u> Company: <u>Weston</u> Date: <u>9/21/17</u> Time: <u>1514</u>	Received By <u>R. Wright</u> Company: <u>IA</u> Date: <u>9/21/17</u> Time: <u>1514</u>	Lab Courier: <u>TA</u>
Relinquished By <u>R. Wright</u> Company: <u>IA</u> Date: <u>9/21/17</u> Time: <u>1615</u>	Received By <u>Shirley</u> Company: <u>TA-CHE</u> Date: <u>9/22/17</u> Time: <u>0730</u>	Shipped: _____
Relinquished By Company: _____ Date: _____ Time: _____	Received By Company: _____ Date: _____ Time: _____	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

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-134344-1

Client Project/Site: IDOT - Eisenhower Expressway - WO 062

For:

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

Attn: Mr. S. Babusukumar



Authorized for release by:
9/29/2017 10:03:17 AM

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

LINKS

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results through
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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

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9

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11

12

13

14

15

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134344-1

Client Sample ID: FH-13(38-46)-092017

Lab Sample ID: 500-134344-9

Date Collected: 09/20/17 14:10

Matrix: Solid

Date Received: 09/20/17 16:37

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	6.8	ug/Kg	☼	09/21/17 17:50	09/25/17 17:04	1
Benzene	<1.6		1.6	0.40	ug/Kg	☼	09/21/17 17:50	09/25/17 17:04	1
Bromodichloromethane	<1.6		1.6	0.32	ug/Kg	☼	09/21/17 17:50	09/25/17 17:04	1
Bromoform	<1.6		1.6	0.45	ug/Kg	☼	09/21/17 17:50	09/25/17 17:04	1
Bromomethane	<3.9		3.9	1.5	ug/Kg	☼	09/21/17 17:50	09/25/17 17:04	1
Carbon disulfide	<3.9		3.9	0.81	ug/Kg	☼	09/21/17 17:50	09/25/17 17:04	1
Carbon tetrachloride	<1.6		1.6	0.45	ug/Kg	☼	09/21/17 17:50	09/25/17 17:04	1
Chlorobenzene	<1.6		1.6	0.57	ug/Kg	☼	09/21/17 17:50	09/25/17 17:04	1
Chloroethane	<3.9		3.9	1.1	ug/Kg	☼	09/21/17 17:50	09/25/17 17:04	1
Chloroform	<1.6		1.6	0.54	ug/Kg	☼	09/21/17 17:50	09/25/17 17:04	1
Chloromethane	<3.9		3.9	1.6	ug/Kg	☼	09/21/17 17:50	09/25/17 17:04	1
cis-1,2-Dichloroethene	<1.6		1.6	0.43	ug/Kg	☼	09/21/17 17:50	09/25/17 17:04	1
cis-1,3-Dichloropropene	<1.6		1.6	0.47	ug/Kg	☼	09/21/17 17:50	09/25/17 17:04	1
Dibromochloromethane	<1.6		1.6	0.51	ug/Kg	☼	09/21/17 17:50	09/25/17 17:04	1
1,1-Dichloroethane	<1.6		1.6	0.53	ug/Kg	☼	09/21/17 17:50	09/25/17 17:04	1
1,2-Dichloroethane	<3.9		3.9	1.2	ug/Kg	☼	09/21/17 17:50	09/25/17 17:04	1
1,1-Dichloroethene	<1.6		1.6	0.53	ug/Kg	☼	09/21/17 17:50	09/25/17 17:04	1
1,2-Dichloropropane	<1.6		1.6	0.40	ug/Kg	☼	09/21/17 17:50	09/25/17 17:04	1
1,3-Dichloropropene, Total	<1.6		1.6	0.54	ug/Kg	☼	09/21/17 17:50	09/25/17 17:04	1
Ethylbenzene	<1.6		1.6	0.74	ug/Kg	☼	09/21/17 17:50	09/25/17 17:04	1
2-Hexanone	<3.9		3.9	1.2	ug/Kg	☼	09/21/17 17:50	09/25/17 17:04	1
Methylene Chloride	<3.9		3.9	1.5	ug/Kg	☼	09/21/17 17:50	09/25/17 17:04	1
Methyl Ethyl Ketone	<3.9		3.9	1.7	ug/Kg	☼	09/21/17 17:50	09/25/17 17:04	1
methyl isobutyl ketone	<3.9		3.9	1.1	ug/Kg	☼	09/21/17 17:50	09/25/17 17:04	1
Methyl tert-butyl ether	<1.6		1.6	0.46	ug/Kg	☼	09/21/17 17:50	09/25/17 17:04	1
Styrene	<1.6		1.6	0.47	ug/Kg	☼	09/21/17 17:50	09/25/17 17:04	1
1,1,2,2-Tetrachloroethane	<1.6		1.6	0.50	ug/Kg	☼	09/21/17 17:50	09/25/17 17:04	1
Tetrachloroethene	<1.6		1.6	0.53	ug/Kg	☼	09/21/17 17:50	09/25/17 17:04	1
Toluene	<1.6		1.6	0.39	ug/Kg	☼	09/21/17 17:50	09/25/17 17:04	1
trans-1,2-Dichloroethene	<1.6		1.6	0.69	ug/Kg	☼	09/21/17 17:50	09/25/17 17:04	1
trans-1,3-Dichloropropene	<1.6		1.6	0.54	ug/Kg	☼	09/21/17 17:50	09/25/17 17:04	1
1,1,1-Trichloroethane	<1.6		1.6	0.52	ug/Kg	☼	09/21/17 17:50	09/25/17 17:04	1
1,1,2-Trichloroethane	<1.6		1.6	0.67	ug/Kg	☼	09/21/17 17:50	09/25/17 17:04	1
Trichloroethene	<1.6		1.6	0.52	ug/Kg	☼	09/21/17 17:50	09/25/17 17:04	1
Vinyl chloride	<1.6		1.6	0.69	ug/Kg	☼	09/21/17 17:50	09/25/17 17:04	1
Xylenes, Total	<3.1		3.1	0.50	ug/Kg	☼	09/21/17 17:50	09/25/17 17:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		75 - 131	09/21/17 17:50	09/25/17 17:04	1
Dibromofluoromethane	101		75 - 126	09/21/17 17:50	09/25/17 17:04	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	09/21/17 17:50	09/25/17 17:04	1
Toluene-d8 (Surr)	100		75 - 124	09/21/17 17:50	09/25/17 17:04	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	☼	09/26/17 07:23	09/27/17 16:12	1
1,2-Dichlorobenzene	<180		180	43	ug/Kg	☼	09/26/17 07:23	09/27/17 16:12	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	09/26/17 07:23	09/27/17 16:12	1
1,4-Dichlorobenzene	<180		180	46	ug/Kg	☼	09/26/17 07:23	09/27/17 16:12	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	09/26/17 07:23	09/27/17 16:12	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134344-1

Client Sample ID: FH-13(38-46)-092017

Lab Sample ID: 500-134344-9

Date Collected: 09/20/17 14:10

Matrix: Solid

Date Received: 09/20/17 16:37

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	☼	09/26/17 07:23	09/27/17 16:12	1
2,4,6-Trichlorophenol	<360		360	120	ug/Kg	☼	09/26/17 07:23	09/27/17 16:12	1
2,4-Dichlorophenol	<360		360	86	ug/Kg	☼	09/26/17 07:23	09/27/17 16:12	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	09/26/17 07:23	09/27/17 16:12	1
2,4-Dinitrophenol	<730	*	730	640	ug/Kg	☼	09/26/17 07:23	09/27/17 16:12	1
2,4-Dinitrotoluene	<180		180	57	ug/Kg	☼	09/26/17 07:23	09/27/17 16:12	1
2,6-Dinitrotoluene	<180		180	71	ug/Kg	☼	09/26/17 07:23	09/27/17 16:12	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	09/26/17 07:23	09/27/17 16:12	1
2-Chlorophenol	<180		180	62	ug/Kg	☼	09/26/17 07:23	09/27/17 16:12	1
2-Methylnaphthalene	<73		73	6.7	ug/Kg	☼	09/26/17 07:23	09/27/17 16:12	1
2-Methylphenol	<180		180	58	ug/Kg	☼	09/26/17 07:23	09/27/17 16:12	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	09/26/17 07:23	09/27/17 16:12	1
2-Nitrophenol	<360		360	85	ug/Kg	☼	09/26/17 07:23	09/27/17 16:12	1
3 & 4 Methylphenol	<180		180	60	ug/Kg	☼	09/26/17 07:23	09/27/17 16:12	1
3,3'-Dichlorobenzidine	<180		180	51	ug/Kg	☼	09/26/17 07:23	09/27/17 16:12	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	09/26/17 07:23	09/27/17 16:12	1
4,6-Dinitro-2-methylphenol	<730		730	290	ug/Kg	☼	09/26/17 07:23	09/27/17 16:12	1
4-Bromophenyl phenyl ether	<180		180	48	ug/Kg	☼	09/26/17 07:23	09/27/17 16:12	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	09/26/17 07:23	09/27/17 16:12	1
4-Chloroaniline	<730		730	170	ug/Kg	☼	09/26/17 07:23	09/27/17 16:12	1
4-Chlorophenyl phenyl ether	<180		180	42	ug/Kg	☼	09/26/17 07:23	09/27/17 16:12	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	09/26/17 07:23	09/27/17 16:12	1
4-Nitrophenol	<730		730	340	ug/Kg	☼	09/26/17 07:23	09/27/17 16:12	1
Acenaphthene	<36		36	6.5	ug/Kg	☼	09/26/17 07:23	09/27/17 16:12	1
Acenaphthylene	<36		36	4.8	ug/Kg	☼	09/26/17 07:23	09/27/17 16:12	1
Anthracene	<36		36	6.0	ug/Kg	☼	09/26/17 07:23	09/27/17 16:12	1
Benzo[a]anthracene	<36		36	4.9	ug/Kg	☼	09/26/17 07:23	09/27/17 16:12	1
Benzo[a]pyrene	<36		36	7.0	ug/Kg	☼	09/26/17 07:23	09/27/17 16:12	1
Benzo[b]fluoranthene	<36		36	7.8	ug/Kg	☼	09/26/17 07:23	09/27/17 16:12	1
Benzo[g,h,i]perylene	<36		36	12	ug/Kg	☼	09/26/17 07:23	09/27/17 16:12	1
Benzo[k]fluoranthene	<36		36	11	ug/Kg	☼	09/26/17 07:23	09/27/17 16:12	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	09/26/17 07:23	09/27/17 16:12	1
Bis(2-chloroethyl)ether	<180		180	54	ug/Kg	☼	09/26/17 07:23	09/27/17 16:12	1
Bis(2-ethylhexyl) phthalate	<180		180	66	ug/Kg	☼	09/26/17 07:23	09/27/17 16:12	1
Butyl benzyl phthalate	<180		180	69	ug/Kg	☼	09/26/17 07:23	09/27/17 16:12	1
Carbazole	<180		180	90	ug/Kg	☼	09/26/17 07:23	09/27/17 16:12	1
Chrysene	34	J	36	9.9	ug/Kg	☼	09/26/17 07:23	09/27/17 16:12	1
Dibenz(a,h)anthracene	<36		36	7.0	ug/Kg	☼	09/26/17 07:23	09/27/17 16:12	1
Dibenzofuran	<180		180	42	ug/Kg	☼	09/26/17 07:23	09/27/17 16:12	1
Diethyl phthalate	<180		180	61	ug/Kg	☼	09/26/17 07:23	09/27/17 16:12	1
Dimethyl phthalate	<180		180	47	ug/Kg	☼	09/26/17 07:23	09/27/17 16:12	1
Di-n-butyl phthalate	<180		180	55	ug/Kg	☼	09/26/17 07:23	09/27/17 16:12	1
Di-n-octyl phthalate	<180		180	59	ug/Kg	☼	09/26/17 07:23	09/27/17 16:12	1
Fluoranthene	20	J	36	6.7	ug/Kg	☼	09/26/17 07:23	09/27/17 16:12	1
Fluorene	8.0	J	36	5.1	ug/Kg	☼	09/26/17 07:23	09/27/17 16:12	1
Hexachlorobenzene	<73		73	8.4	ug/Kg	☼	09/26/17 07:23	09/27/17 16:12	1
Hexachlorobutadiene	<180		180	57	ug/Kg	☼	09/26/17 07:23	09/27/17 16:12	1
Hexachlorocyclopentadiene	<730		730	210	ug/Kg	☼	09/26/17 07:23	09/27/17 16:12	1
Hexachloroethane	<180		180	55	ug/Kg	☼	09/26/17 07:23	09/27/17 16:12	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134344-1

Client Sample ID: FH-13(38-46)-092017

Lab Sample ID: 500-134344-9

Date Collected: 09/20/17 14:10

Matrix: Solid

Date Received: 09/20/17 16:37

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	<36		36	9.4	ug/Kg	☼	09/26/17 07:23	09/27/17 16:12	1
Isophorone	<180		180	41	ug/Kg	☼	09/26/17 07:23	09/27/17 16:12	1
Naphthalene	<36		36	5.6	ug/Kg	☼	09/26/17 07:23	09/27/17 16:12	1
Nitrobenzene	<36		36	9.0	ug/Kg	☼	09/26/17 07:23	09/27/17 16:12	1
N-Nitrosodi-n-propylamine	<73		73	44	ug/Kg	☼	09/26/17 07:23	09/27/17 16:12	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	09/26/17 07:23	09/27/17 16:12	1
Pentachlorophenol	<730		730	580	ug/Kg	☼	09/26/17 07:23	09/27/17 16:12	1
Phenanthrene	83		36	5.0	ug/Kg	☼	09/26/17 07:23	09/27/17 16:12	1
Phenol	<180		180	80	ug/Kg	☼	09/26/17 07:23	09/27/17 16:12	1
Pyrene	<36		36	7.2	ug/Kg	☼	09/26/17 07:23	09/27/17 16:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	65		25 - 139				09/26/17 07:23	09/27/17 16:12	1
2-Fluorobiphenyl	83		44 - 121				09/26/17 07:23	09/27/17 16:12	1
2-Fluorophenol	109		46 - 133				09/26/17 07:23	09/27/17 16:12	1
Nitrobenzene-d5	85		41 - 120				09/26/17 07:23	09/27/17 16:12	1
Phenol-d5	98		46 - 125				09/26/17 07:23	09/27/17 16:12	1
Terphenyl-d14	91		35 - 160				09/26/17 07:23	09/27/17 16:12	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		09/26/17 15:08	09/27/17 13:30	1
Barium	0.65		0.50	0.050	mg/L		09/26/17 15:08	09/27/17 13:30	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/26/17 15:08	09/27/17 13:30	1
Cadmium	0.0025	J	0.0050	0.0020	mg/L		09/26/17 15:08	09/27/17 13:30	1
Chromium	<0.025		0.025	0.010	mg/L		09/26/17 15:08	09/27/17 13:30	1
Cobalt	0.031		0.025	0.010	mg/L		09/26/17 15:08	09/27/17 13:30	1
Copper	0.011	J B	0.20	0.010	mg/L		09/26/17 15:08	09/27/17 13:30	1
Iron	0.22	J B	0.40	0.20	mg/L		09/26/17 15:08	09/27/17 13:30	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/26/17 15:08	09/27/17 13:30	1
Manganese	2.7		0.025	0.010	mg/L		09/26/17 15:08	09/27/17 13:30	1
Nickel	0.072		0.025	0.010	mg/L		09/26/17 15:08	09/27/17 13:30	1
Selenium	<0.050		0.050	0.020	mg/L		09/26/17 15:08	09/27/17 13:30	1
Silver	<0.025		0.025	0.010	mg/L		09/26/17 15:08	09/27/17 13:30	1
Zinc	<0.50	[^]	0.50	0.020	mg/L		09/26/17 15:08	09/27/17 13:30	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		09/25/17 07:12	09/26/17 04:30	1
Barium	0.21	J	0.50	0.050	mg/L		09/25/17 07:12	09/26/17 04:30	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/25/17 07:12	09/26/17 04:30	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/25/17 07:12	09/26/17 04:30	1
Chromium	0.042		0.025	0.010	mg/L		09/25/17 07:12	09/26/17 04:30	1
Cobalt	0.021	J	0.025	0.010	mg/L		09/25/17 07:12	09/26/17 04:30	1
Copper	0.059		0.025	0.010	mg/L		09/25/17 07:12	09/26/17 04:30	1
Iron	25		0.40	0.20	mg/L		09/25/17 07:12	09/26/17 04:30	1
Lead	0.019		0.0075	0.0075	mg/L		09/25/17 07:12	09/26/17 04:30	1
Manganese	0.44		0.025	0.010	mg/L		09/25/17 07:12	09/26/17 04:30	1
Nickel	0.049		0.025	0.010	mg/L		09/25/17 07:12	09/26/17 04:30	1
Selenium	<0.050		0.050	0.020	mg/L		09/25/17 07:12	09/26/17 04:30	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134344-1

Client Sample ID: FH-13(38-46)-092017

Lab Sample ID: 500-134344-9

Date Collected: 09/20/17 14:10

Matrix: Solid

Date Received: 09/20/17 16:37

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		09/25/17 07:12	09/26/17 04:30	1
Zinc	0.13	J	0.50	0.020	mg/L		09/25/17 07:12	09/26/17 04:30	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	☼	09/22/17 17:18	09/25/17 19:03	1
Arsenic	6.1		0.57	0.19	mg/Kg	☼	09/22/17 17:18	09/25/17 19:03	1
Barium	39		0.57	0.065	mg/Kg	☼	09/22/17 17:18	09/25/17 19:03	1
Beryllium	0.77		0.23	0.053	mg/Kg	☼	09/22/17 17:18	09/25/17 19:03	1
Cadmium	0.13	B	0.11	0.021	mg/Kg	☼	09/22/17 17:18	09/25/17 19:03	1
Calcium	74000	B	110	19	mg/Kg	☼	09/22/17 17:18	09/26/17 18:48	10
Chromium	18		0.57	0.28	mg/Kg	☼	09/22/17 17:18	09/25/17 19:03	1
Cobalt	15		0.28	0.075	mg/Kg	☼	09/22/17 17:18	09/25/17 19:03	1
Copper	27		0.57	0.16	mg/Kg	☼	09/22/17 17:18	09/25/17 19:03	1
Iron	19000	B	11	5.9	mg/Kg	☼	09/22/17 17:18	09/25/17 19:03	1
Lead	14		0.28	0.13	mg/Kg	☼	09/22/17 17:18	09/25/17 19:03	1
Magnesium	23000		5.7	2.8	mg/Kg	☼	09/22/17 17:18	09/25/17 19:03	1
Manganese	330		0.57	0.083	mg/Kg	☼	09/22/17 17:18	09/25/17 19:03	1
Nickel	37		0.57	0.17	mg/Kg	☼	09/22/17 17:18	09/25/17 19:03	1
Potassium	3600		28	10	mg/Kg	☼	09/22/17 17:18	09/25/17 19:03	1
Selenium	<0.57		0.57	0.33	mg/Kg	☼	09/22/17 17:18	09/25/17 19:03	1
Silver	<0.28		0.28	0.073	mg/Kg	☼	09/22/17 17:18	09/25/17 19:03	1
Sodium	200		57	8.4	mg/Kg	☼	09/22/17 17:18	09/25/17 19:03	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	09/22/17 17:18	09/25/17 19:03	1
Vanadium	21		0.28	0.067	mg/Kg	☼	09/22/17 17:18	09/25/17 19:03	1
Zinc	52		1.1	0.50	mg/Kg	☼	09/22/17 17:18	09/25/17 19:03	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		09/26/17 14:10	09/27/17 08:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		09/25/17 16:40	09/26/17 11:55	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	21		18	6.1	ug/Kg	☼	09/26/17 12:40	09/27/17 08:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.1		0.20	0.20	SU			09/26/17 00:16	1

Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134344-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	ISTD response or retention time outside acceptable limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

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

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.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
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.
F2	MS/MSD RPD exceeds control limits
F4	MS/MSD RPD exceeds control limits due to sample size difference.

Glossary

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

Accreditation/Certification Summary

Client: Weston Solutions, Inc.

TestAmerica Job ID: 500-134344-1

Project/Site: IDOT - Eisenhower Expressway - WO 062

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Illinois	NELAP	5	100201	04-30-19

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

Analysis Method	Prep Method	Matrix	Analyte
8260B	5035	Solid	1,3-Dichloropropene, Total
9045D		Solid	pH
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

TestAmerica

THE LEADER IN ENVIRONMENTAL T

2417 Bond Street, University Park, IL 6048
Phone: 708.534.5200 Fax: 708.534.51



500-134344 COC

Report To (optional)
Contact: Babu
Company: Weston Solutions
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: _____

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

Chain of Custody Record

Lab Job #: 500-134344
Chain of Custody Number: _____
Page 3 of 5
Temperature °C of Cooler: 20, 3, 3, 4, 4, 6, 2, 7

Client		Client Project #		Preservative		Parameter		Matrix		Comments		
<u>Weston Solutions</u>										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		
Project Name		Lab Project #		# of Containers		Matrix						
<u>IDOT 062 - Eisenhower Expressway</u>												
Project Location/State		Lab PM		Date		Time						
<u>Forest Park, IL</u>		<u>R. Wright</u>										
Sampler		Sample ID		Sampling		Matrix						
<u>VTS Hard</u>												
Lab ID	MS/MSD	Sample ID		Date	Time	# of Containers	Matrix	VOC	SVOC	total metals	PCLP/SPLP metals	PH
		PS-11092017		09/20/17	1105	6	W	X	X	X	X	X
1		FH-13(0-5)-092017		09/20/17	1235	6	S	X	X	X	X	X
2		FH-13(5-10)-092017			1245	6	S	X	X	X	X	X
3		FH-13(10-15)-092017			1258	6	S	X	X	X	X	X
4		FH-13(15-20)-092017			1305	6	S	X	X	X	X	X
5		FH-13(20-25)-092017			1320	6	S	X	X	X	X	X
6		FH-13(20-25)-092017D			1310	6	S	X	X	X	X	X
7		FH-13(25-30)-09-2017			1340	6	S	X	X	X	X	X
8		FH-13(30-38)-092017			1355	6	S	X	X	X	X	X
9		FH-13(38-46)-092017			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 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 <u>Katy Jensen</u>	Company <u>TA</u>	Date <u>9/20/17</u>	Time <u>1527</u>	Received By <u>P. Neal</u>	Company <u>TA</u>	Date <u>9/20/17</u>	Time <u>1527</u>
Relinquished By <u>P. Neal</u>	Company <u>TA</u>	Date <u>9/20/17</u>	Time <u>1637</u>	Received By <u>Shawn</u>	Company <u>TA-CHI</u>	Date <u>9/21/17</u>	Time <u>0730</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier TIA

Shipped

Hand Delivered

Matrix Key

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

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: Bubu
Company: Western
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: _____

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

Chain of Custody Record

Lab Job #: 500-134344
Chain of Custody Number: _____
Page 4 of 5
Temperature °C of Cooler: 2.0, 3.3, 4.4, 6.2, 7

Client		Client Project #		Preservative		Parameter		Matrix		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	
Project Name		Lab Project #		Matrix		Matrix		Comments			
Project Location/State		Lab RM		Matrix		Matrix					
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	Matrix	Matrix	Matrix	Matrix	
western solutions		IDOT 062-Eisenhower Expressway		VOC		SVOC		total metals		TCU-P/SPUP metals PH	
Forest Park, IL		12. Wright									
S. Hord											
10		PS-4(0-5)-092017	09-20-17	0810	6	S	X	X	X	X	
11		PS-4(5-10)-092017	09-20-17	0820	6	S	X	X	X	X	
12		PS-4(10-15)-092017	09-20-17	0830	6	S	X	X	X	X	
13		PS-4(15-20)-092017	09-20-17	0840	6	S	X	X	X	X	
14		PS-4(20-25)-092017	09-20-17	0850	6	S	X	X	X	X	
15		PS-4(25-30)-092017	09-20-17	0910	6	S	X	X	X	X	
16		PS-4(30-35)-092017	09-20-17	0930	6	S	X	X	X	X	
17		PS-4(35-40)-092017	09-20-17	1000	6	S	X	X	X	X	
18		PS-4(40-45)-092017	09-20-17	1030	6	S	X	X	X	X	

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

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

Relinquished By: <u>[Signature]</u> Company: <u>Western</u> Date: <u>09/20/17</u> Time: <u>1527</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>9/20/17</u> Time: <u>1527</u>	Lab Courier: <u>TA</u>
Relinquished By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>9/20/17</u> Time: <u>1459</u>	Received By: <u>[Signature]</u> Company: <u>TA-CAF</u> Date: <u>9/21/17</u> Time: <u>0730</u>	Shipped: _____
Relinquished By: _____ Company: _____ Date: _____ Time: _____	Received By: _____ Company: _____ Date: _____ Time: _____	Hand Delivered: _____

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

Client Comments: _____

Lab Comments: _____



Illinois Environmental Protection Agency

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

Uncontaminated Soil Certification

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

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

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

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

I. Source Location Information

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

Project Name: FAI (I-290)-Des Plaines River Pump Station #4 Office Phone Number, if available: _____

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

8107 W. Eisenhower Expwy. (ISGS Site No. 2215V-3 - LOCATIONS OUTSIDE OF EARTH RETENTION SYSTEM)

City: Forest Park State: IL Zip Code: _____

County: Cook Township: _____

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

Latitude: 41.87187 Longitude: - 87.82639

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

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

Estimated Volume of debris (cu. Yd.): 647

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: _____

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@illinois.gov

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: _____

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@illinois.gov

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

Uncontaminated Soil Certification

III. Basis for Certification and Attachments

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

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

LOCATIONS PS-1 THROUGH PS-3 WERE SAMPLED ADJACENT TO ISGS SITE No. 2215V-3. 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: 500-134343-1.
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, Margaret Doheny-Skubic, 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.

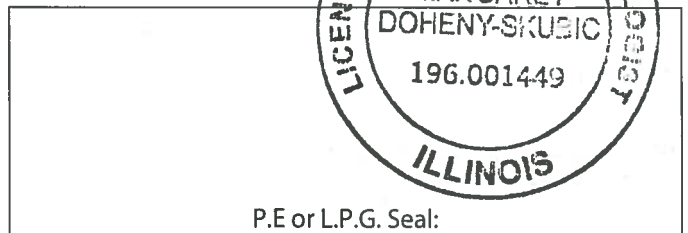
Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Weston Solutions, Inc.
Street Address: 300 Circle Plaza; Suite 202
City: Mundelein State: IL Zip Code: 60060
Phone: (224) 864-7234

Margaret Doheny-Skubic, P.G.
Printed Name:


Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Apr 22, 2019
Date:



Summary Table of ISGS Site No. 2215V-3
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results - OUTSIDE EARTH RETENTION SYSTEM
Illinois Department of Transportation
FAI (I-290): Eisenhower Expressway - Des Plaines River Pump Station #4
Forest Park, Cook County, Illinois

Field Sample ID	PS-1(0-6)-092017	PS-1(6-13)-092017	PS-2(0-6)-092017	PS-2(6-13)-092017	PS-3(0-6)-092017	PS-3(6-13)-092017	PS-3(6-13)-092017D	Soil Reference Concentrations ^A
Sample Date	9/20/2017	9/20/2017	9/20/2017	9/20/2017	9/20/2017	9/20/2017	9/20/2017	
Location ID	PS-1	PS-1	PS-2	PS-2	PS-3	PS-3	PS-3	
Depth	0 - 6	6 - 13	0 - 6	6 - 13	0 - 6	6 - 13	6 - 13	
ISGS Site No.	2215V-4	2215V-4	2215V-4	2215V-4	2215V-4	2215V-4	2215V-4	
Parameter								
Laboratory pH (s.u.)	7.9	7.8	7.6	7.9	8	8.1	8.1	<6.25,>9.0
VOCs (ug/kg)								
Acetone	31	30	18	37	54	ND	20	25000
Ethylbenzene	ND	ND	ND	ND	2.5	ND	ND	13000
Xylene (Total)	ND	ND	ND	ND	13	ND	ND	5600
SVOCs (ug/kg)								
2-Methylnaphthalene	17 J	28 J	22 J	48 J	10 J	8.6 J	ND	---
Acenaphthene	12 J	7.6 J	20 J	14 J	ND	7.6 J	7.6 J	570000
Acenaphthylene	10 J	ND	12 J	ND	ND	170	170	---
Anthracene	25 J	ND	60	20 J	10 J	56	56	1.20E+07
Benzo(a)anthracene	78	ND	200	42	30 J	88	82	900 / 1100 / 1800
Benzo(a)pyrene	82	ND	240	50	31 J	250 J	240 J	90 / 1300 / 2100
Benzo(b)fluoranthene	160 J+	ND	370	80	54 J	300 J	270 J	900 / 1500 / 2100
Benzo(g,h,i)perylene	37 J-	ND	120	25 J	29 J	200 J	220 J	---
Benzo(k)fluoranthene	60 J+	ND	210	30 J	17 J	120 J	130 J	9000
Chrysene	110	26 J	250	61	38	110	100	88000
Dibenzo(a,h)anthracene	13 J	ND	36 J	ND	ND	48 J	42 J	90 / 200 420
Fluoranthene	170	10 J	430	93	59	140	120	3100000
Fluorene	9.8 J	7.4 J	20 J	14 J	ND	7.5 J	7.2 J	560000
Indeno(1,2,3-cd)pyrene	33 J	ND	96	23 J	ND	150 J	160 J	900 / 900 / 1600
Naphthalene, SVOC	10 J	11 J	16 J	17 J	ND	ND	ND	1800
Phenanthrene	140	70	270	93	55	17 J	19 J	---
Pyrene	160 J+	23 J	400	92	61	190	190	2300000

Summary Table of ISGS Site No. 2215V-3
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results - OUTSIDE EARTH RETENTION SYSTEM
Illinois Department of Transportation
FAI (I-290): Eisenhower Expressway - Des Plaines River Pump Station #4
Forest Park, Cook County, Illinois

Field Sample ID	PS-1(0-6)-092017	PS-1(6-13)-092017	PS-2(0-6)-092017	PS-2(6-13)-092017	PS-3(0-6)-092017	PS-3(6-13)-092017	PS-3(6-13)-092017D	Soil Reference Concentrations ^A
Sample Date	9/20/2017	9/20/2017	9/20/2017	9/20/2017	9/20/2017	9/20/2017	9/20/2017	
Location ID	PS-1	PS-1	PS-2	PS-2	PS-3	PS-3	PS-3	
Depth	0 - 6	6 - 13	0 - 6	6 - 13	0 - 6	6 - 13	6 - 13	
ISGS Site No.	2215V-4	2215V-4	2215V-4	2215V-4	2215V-4	2215V-4	2215V-4	
Parameter								
Total Metals (mg/kg)								
Antimony, Total	ND	ND	ND	ND	0.19 J	ND	ND	5
Arsenic, Total	10 J	11	9.8	6.5	4	2.1	1.7	11.3 / 13
Barium, Total	44 J	22	40	41	31	9.8	6.5	1500
Beryllium, Total	0.57 J	0.47	0.52	0.52	0.35	0.18 J	0.16 J	22
Calcium, Total	68000 J	86000 B	77000 B	33000 B	150000 B	220000 B	210000 B	---
Chromium, Total	14 J	11	14	13	8.1	4.6	3.8	21
Cobalt, Total	14	12	12	12	5.8	2.4	1.7	20
Copper, Total	32 J-	33	34	26	11	6.1	4	2900
Iron, Total	19000 J	18000	18000	18000	8300	4200	3100	15000 / 15900
Lead, Total	18 J+	19	150	45	18	8.3	5.4	107
Magnesium, Total	24000 J+	28000	24000	21000	48000	120000	120000	325000
Manganese, Total	320 J	360	300	430	230	150	120	630 / 636
Mercury, Total	0.043 J	0.025	0.04	0.031	0.0061 J	0.0087 J	0.0076 J	0.89
Nickel, Total	32 J-	28	29	26	14	6.8	4.4	100
Potassium, Total	2200 J	2000	1900	1600	1200	930	780	---
Sodium, Total	220	190	250	370	110	140	150	---
Thallium, Total	ND	0.53 J	0.38 J	ND	ND	ND	ND	2.6
Vanadium, Total	18 J	14	17	17	13	7	5.2	550
Zinc, Total	72 J+	83	98	79	26	16	8.4	5100
TCLP Metals (mg/l)								
Barium, TCLP	0.17 J	0.14 J	0.19 J	0.34 J	0.2 J	0.18 J	0.16 J	2
Cadmium, TCLP	0.0026 J	ND	0.0038 J	ND	ND	ND	ND	0.005
Cobalt, TCLP	0.017 J	0.03	0.023 J	0.028	0.019 J	0.019 J	0.018 J	1
Lead, TCLP	ND	ND	0.038	ND	0.011	ND	ND	0.0075
Manganese, TCLP	3.5	2.7	2.8	6.6	1.1	1.1	1	0.15
Nickel, TCLP	0.015 J	0.044	0.027	0.032	0.025	0.029	0.026	0.1

Summary Table of ISGS Site No. 2215V-3
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results - OUTSIDE EARTH RETENTION SYSTEM
Illinois Department of Transportation
FAI (I-290): Eisenhower Expressway - Des Plaines River Pump Station #4
Forest Park, Cook County, Illinois

Field Sample ID	PS-1(0-6)-092017	PS-1(6-13)-092017	PS-2(0-6)-092017	PS-2(6-13)-092017	PS-3(0-6)-092017	PS-3(6-13)-092017	PS-3(6-13)-092017D	Soil Reference Concentrations ^A
Sample Date	9/20/2017	9/20/2017	9/20/2017	9/20/2017	9/20/2017	9/20/2017	9/20/2017	
Location ID	PS-1	PS-1	PS-2	PS-2	PS-3	PS-3	PS-3	
Depth	0 - 6	6 - 13	0 - 6	6 - 13	0 - 6	6 - 13	6 - 13	
ISGS Site No.	2215V-4	2215V-4	2215V-4	2215V-4	2215V-4	2215V-4	2215V-4	
Parameter								
SPLP Metals (mg/l)								
Barium, SPLP	0.073 J	0.075 J	0.083 J	0.078 J	0.076 J	0.068 J	0.069 J	2
Copper, SPLP	0.11	0.017 J	0.016 J	0.018 J	0.027	0.024 J	0.032	0.65
Iron, SPLP	ND	ND	ND	0.73	1.4	0.33 J	0.31 J	5
Manganese, SPLP	0.19	0.15	0.077	0.1	0.011 J	ND	ND	0.15
Zinc, SPLP	0.2 J	0.29 J	0.053 J	0.05 J	0.084 J	0.067 J	0.057 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.

ND - Constituent not detected above the reporting limit.

B - Constituent detected in the laboratory blank and investigative samples.

J - Estimated concentration.

J+ - Estimated concentration, biased high.

 Estimated concentration, biased low.

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: 500-134343-1

Client Project/Site: IDOT - Eisenhower Expressway - WO 062

For:

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

Attn: Mr. S. Babusukumar



Authorized for release by:
9/29/2017 4:11:44 PM

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

LINKS

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results through
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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134343-1

Client Sample ID: PS-1(0-6)-092017

Lab Sample ID: 500-134343-1

Date Collected: 09/20/17 08:05

Matrix: Solid

Date Received: 09/21/17 16:37

Percent Solids: 85.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	31		20	8.7	ug/Kg	☼	09/21/17 17:50	09/22/17 15:58	1
Benzene	<2.0		2.0	0.51	ug/Kg	☼	09/21/17 17:50	09/22/17 15:58	1
Bromodichloromethane	<2.0		2.0	0.41	ug/Kg	☼	09/21/17 17:50	09/22/17 15:58	1
Bromoform	<2.0		2.0	0.58	ug/Kg	☼	09/21/17 17:50	09/22/17 15:58	1
Bromomethane	<5.0		5.0	1.9	ug/Kg	☼	09/21/17 17:50	09/22/17 15:58	1
Carbon disulfide	<5.0		5.0	1.0	ug/Kg	☼	09/21/17 17:50	09/22/17 15:58	1
Carbon tetrachloride	<2.0		2.0	0.58	ug/Kg	☼	09/21/17 17:50	09/22/17 15:58	1
Chlorobenzene	<2.0		2.0	0.74	ug/Kg	☼	09/21/17 17:50	09/22/17 15:58	1
Chloroethane	<5.0 *		5.0	1.5	ug/Kg	☼	09/21/17 17:50	09/22/17 15:58	1
Chloroform	<2.0		2.0	0.69	ug/Kg	☼	09/21/17 17:50	09/22/17 15:58	1
Chloromethane	<5.0		5.0	2.0	ug/Kg	☼	09/21/17 17:50	09/22/17 15:58	1
cis-1,2-Dichloroethene	<2.0		2.0	0.56	ug/Kg	☼	09/21/17 17:50	09/22/17 15:58	1
cis-1,3-Dichloropropene	<2.0		2.0	0.60	ug/Kg	☼	09/21/17 17:50	09/22/17 15:58	1
Dibromochloromethane	<2.0		2.0	0.65	ug/Kg	☼	09/21/17 17:50	09/22/17 15:58	1
1,1-Dichloroethane	<2.0		2.0	0.68	ug/Kg	☼	09/21/17 17:50	09/22/17 15:58	1
1,2-Dichloroethane	<5.0		5.0	1.6	ug/Kg	☼	09/21/17 17:50	09/22/17 15:58	1
1,1-Dichloroethene	<2.0		2.0	0.69	ug/Kg	☼	09/21/17 17:50	09/22/17 15:58	1
1,2-Dichloropropane	<2.0		2.0	0.52	ug/Kg	☼	09/21/17 17:50	09/22/17 15:58	1
1,3-Dichloropropene, Total	<2.0		2.0	0.70	ug/Kg	☼	09/21/17 17:50	09/22/17 15:58	1
Ethylbenzene	<2.0		2.0	0.95	ug/Kg	☼	09/21/17 17:50	09/22/17 15:58	1
2-Hexanone	<5.0		5.0	1.6	ug/Kg	☼	09/21/17 17:50	09/22/17 15:58	1
Methylene Chloride	<5.0		5.0	2.0	ug/Kg	☼	09/21/17 17:50	09/22/17 15:58	1
Methyl Ethyl Ketone	<5.0		5.0	2.2	ug/Kg	☼	09/21/17 17:50	09/22/17 15:58	1
methyl isobutyl ketone	<5.0		5.0	1.5	ug/Kg	☼	09/21/17 17:50	09/22/17 15:58	1
Methyl tert-butyl ether	<2.0		2.0	0.59	ug/Kg	☼	09/21/17 17:50	09/22/17 15:58	1
Styrene	<2.0		2.0	0.60	ug/Kg	☼	09/21/17 17:50	09/22/17 15:58	1
1,1,2,2-Tetrachloroethane	<2.0		2.0	0.64	ug/Kg	☼	09/21/17 17:50	09/22/17 15:58	1
Tetrachloroethene	<2.0		2.0	0.68	ug/Kg	☼	09/21/17 17:50	09/22/17 15:58	1
Toluene	<2.0		2.0	0.50	ug/Kg	☼	09/21/17 17:50	09/22/17 15:58	1
trans-1,2-Dichloroethene	<2.0		2.0	0.88	ug/Kg	☼	09/21/17 17:50	09/22/17 15:58	1
trans-1,3-Dichloropropene	<2.0		2.0	0.70	ug/Kg	☼	09/21/17 17:50	09/22/17 15:58	1
1,1,1-Trichloroethane	<2.0		2.0	0.67	ug/Kg	☼	09/21/17 17:50	09/22/17 15:58	1
1,1,2-Trichloroethane	<2.0		2.0	0.86	ug/Kg	☼	09/21/17 17:50	09/22/17 15:58	1
Trichloroethene	<2.0		2.0	0.67	ug/Kg	☼	09/21/17 17:50	09/22/17 15:58	1
Vinyl chloride	<2.0		2.0	0.88	ug/Kg	☼	09/21/17 17:50	09/22/17 15:58	1
Xylenes, Total	<4.0		4.0	0.64	ug/Kg	☼	09/21/17 17:50	09/22/17 15:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		75 - 131	09/21/17 17:50	09/22/17 15:58	1
Dibromofluoromethane	100		75 - 126	09/21/17 17:50	09/22/17 15:58	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	09/21/17 17:50	09/22/17 15:58	1
Toluene-d8 (Surr)	103		75 - 124	09/21/17 17:50	09/22/17 15:58	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	☼	09/26/17 06:56	09/28/17 17:41	1
1,2-Dichlorobenzene	<190		190	44	ug/Kg	☼	09/26/17 06:56	09/28/17 17:41	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	09/26/17 06:56	09/28/17 17:41	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	09/26/17 06:56	09/28/17 17:41	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	09/26/17 06:56	09/28/17 17:41	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134343-1

Client Sample ID: PS-1(0-6)-092017

Lab Sample ID: 500-134343-1

Date Collected: 09/20/17 08:05

Matrix: Solid

Date Received: 09/21/17 16:37

Percent Solids: 85.6

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	☼	09/26/17 06:56	09/28/17 17:41	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	09/26/17 06:56	09/28/17 17:41	1
2,4-Dichlorophenol	<370		370	88	ug/Kg	☼	09/26/17 06:56	09/28/17 17:41	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	09/26/17 06:56	09/28/17 17:41	1
2,4-Dinitrophenol	<750	F1	750	650	ug/Kg	☼	09/26/17 06:56	09/28/17 17:41	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	09/26/17 06:56	09/28/17 17:41	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	09/26/17 06:56	09/28/17 17:41	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	09/26/17 06:56	09/28/17 17:41	1
2-Chlorophenol	<190		190	63	ug/Kg	☼	09/26/17 06:56	09/28/17 17:41	1
2-Methylnaphthalene	17	J	75	6.8	ug/Kg	☼	09/26/17 06:56	09/28/17 17:41	1
2-Methylphenol	<190		190	60	ug/Kg	☼	09/26/17 06:56	09/28/17 17:41	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	09/26/17 06:56	09/28/17 17:41	1
2-Nitrophenol	<370		370	88	ug/Kg	☼	09/26/17 06:56	09/28/17 17:41	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	09/26/17 06:56	09/28/17 17:41	1
3,3'-Dichlorobenzidine	<190	F1	190	52	ug/Kg	☼	09/26/17 06:56	09/28/17 17:41	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	09/26/17 06:56	09/28/17 17:41	1
4,6-Dinitro-2-methylphenol	<750	F1	750	300	ug/Kg	☼	09/26/17 06:56	09/28/17 17:41	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	09/26/17 06:56	09/28/17 17:41	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	09/26/17 06:56	09/28/17 17:41	1
4-Chloroaniline	<750		750	170	ug/Kg	☼	09/26/17 06:56	09/28/17 17:41	1
4-Chlorophenyl phenyl ether	<190		190	43	ug/Kg	☼	09/26/17 06:56	09/28/17 17:41	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	09/26/17 06:56	09/28/17 17:41	1
4-Nitrophenol	<750		750	350	ug/Kg	☼	09/26/17 06:56	09/28/17 17:41	1
Acenaphthene	12	J	37	6.7	ug/Kg	☼	09/26/17 06:56	09/28/17 17:41	1
Acenaphthylene	10	J	37	4.9	ug/Kg	☼	09/26/17 06:56	09/28/17 17:41	1
Anthracene	25	J	37	6.2	ug/Kg	☼	09/26/17 06:56	09/28/17 17:41	1
Benzo[a]anthracene	78		37	5.0	ug/Kg	☼	09/26/17 06:56	09/28/17 17:41	1
Benzo[a]pyrene	82		37	7.2	ug/Kg	☼	09/26/17 06:56	09/28/17 17:41	1
Benzo[b]fluoranthene	160	F1	37	8.0	ug/Kg	☼	09/26/17 06:56	09/28/17 17:41	1
Benzo[g,h,i]perylene	37	F1	37	12	ug/Kg	☼	09/26/17 06:56	09/28/17 17:41	1
Benzo[k]fluoranthene	60	F1	37	11	ug/Kg	☼	09/26/17 06:56	09/28/17 17:41	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	09/26/17 06:56	09/28/17 17:41	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	09/26/17 06:56	09/28/17 17:41	1
Bis(2-ethylhexyl) phthalate	<190	F1	190	68	ug/Kg	☼	09/26/17 06:56	09/28/17 17:41	1
Butyl benzyl phthalate	<190	F1	190	71	ug/Kg	☼	09/26/17 06:56	09/28/17 17:41	1
Carbazole	<190		190	93	ug/Kg	☼	09/26/17 06:56	09/28/17 17:41	1
Chrysene	110		37	10	ug/Kg	☼	09/26/17 06:56	09/28/17 17:41	1
Dibenz(a,h)anthracene	13	J F1	37	7.2	ug/Kg	☼	09/26/17 06:56	09/28/17 17:41	1
Dibenzofuran	<190		190	43	ug/Kg	☼	09/26/17 06:56	09/28/17 17:41	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	09/26/17 06:56	09/28/17 17:41	1
Dimethyl phthalate	<190		190	48	ug/Kg	☼	09/26/17 06:56	09/28/17 17:41	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	09/26/17 06:56	09/28/17 17:41	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	09/26/17 06:56	09/28/17 17:41	1
Fluoranthene	170		37	6.9	ug/Kg	☼	09/26/17 06:56	09/28/17 17:41	1
Fluorene	9.8	J	37	5.2	ug/Kg	☼	09/26/17 06:56	09/28/17 17:41	1
Hexachlorobenzene	<75		75	8.6	ug/Kg	☼	09/26/17 06:56	09/28/17 17:41	1
Hexachlorobutadiene	<190		190	58	ug/Kg	☼	09/26/17 06:56	09/28/17 17:41	1
Hexachlorocyclopentadiene	<750	F1	750	210	ug/Kg	☼	09/26/17 06:56	09/28/17 17:41	1
Hexachloroethane	<190	F1	190	56	ug/Kg	☼	09/26/17 06:56	09/28/17 17:41	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134343-1

Client Sample ID: PS-1(0-6)-092017

Lab Sample ID: 500-134343-1

Date Collected: 09/20/17 08:05

Matrix: Solid

Date Received: 09/21/17 16:37

Percent Solids: 85.6

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	33	J F1	37	9.6	ug/Kg	☼	09/26/17 06:56	09/28/17 17:41	1
Isophorone	<190		190	42	ug/Kg	☼	09/26/17 06:56	09/28/17 17:41	1
Naphthalene	10	J	37	5.7	ug/Kg	☼	09/26/17 06:56	09/28/17 17:41	1
Nitrobenzene	<37		37	9.3	ug/Kg	☼	09/26/17 06:56	09/28/17 17:41	1
N-Nitrosodi-n-propylamine	<75		75	45	ug/Kg	☼	09/26/17 06:56	09/28/17 17:41	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	09/26/17 06:56	09/28/17 17:41	1
Pentachlorophenol	<750		750	600	ug/Kg	☼	09/26/17 06:56	09/28/17 17:41	1
Phenanthrene	140		37	5.2	ug/Kg	☼	09/26/17 06:56	09/28/17 17:41	1
Phenol	<190		190	82	ug/Kg	☼	09/26/17 06:56	09/28/17 17:41	1
Pyrene	160	F1	37	7.4	ug/Kg	☼	09/26/17 06:56	09/28/17 17:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	96		25 - 139				09/26/17 06:56	09/28/17 17:41	1
2-Fluorobiphenyl	91		44 - 121				09/26/17 06:56	09/28/17 17:41	1
2-Fluorophenol	108		46 - 133				09/26/17 06:56	09/28/17 17:41	1
Nitrobenzene-d5	86		41 - 120				09/26/17 06:56	09/28/17 17:41	1
Phenol-d5	99		46 - 125				09/26/17 06:56	09/28/17 17:41	1
Terphenyl-d14	102		35 - 160				09/26/17 06:56	09/28/17 17:41	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		09/26/17 15:02	09/27/17 12:55	1
Barium	0.17	J	0.50	0.050	mg/L		09/26/17 15:02	09/27/17 12:55	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/26/17 15:02	09/27/17 12:55	1
Cadmium	0.0026	J	0.0050	0.0020	mg/L		09/26/17 15:02	09/27/17 12:55	1
Chromium	<0.025		0.025	0.010	mg/L		09/26/17 15:02	09/27/17 12:55	1
Cobalt	0.017	J	0.025	0.010	mg/L		09/26/17 15:02	09/27/17 12:55	1
Copper	0.033	J B	0.20	0.010	mg/L		09/26/17 15:02	09/27/17 12:55	1
Iron	<0.40		0.40	0.20	mg/L		09/26/17 15:02	09/27/17 12:55	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/26/17 15:02	09/27/17 12:55	1
Manganese	3.5		0.025	0.010	mg/L		09/26/17 15:02	09/27/17 12:55	1
Nickel	0.015	J	0.025	0.010	mg/L		09/26/17 15:02	09/27/17 12:55	1
Selenium	<0.050		0.050	0.020	mg/L		09/26/17 15:02	09/27/17 12:55	1
Silver	<0.025		0.025	0.010	mg/L		09/26/17 15:02	09/27/17 12:55	1
Zinc	0.051	J B	0.50	0.020	mg/L		09/26/17 15:02	09/27/17 12:55	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		09/25/17 07:11	09/25/17 21:18	1
Barium	0.073	J	0.50	0.050	mg/L		09/25/17 07:11	09/25/17 21:18	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/25/17 07:11	09/25/17 21:18	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/25/17 07:11	09/25/17 21:18	1
Chromium	<0.025		0.025	0.010	mg/L		09/25/17 07:11	09/25/17 21:18	1
Cobalt	<0.025		0.025	0.010	mg/L		09/25/17 07:11	09/25/17 21:18	1
Copper	0.11		0.025	0.010	mg/L		09/25/17 07:11	09/25/17 21:18	1
Iron	<0.40		0.40	0.20	mg/L		09/25/17 07:11	09/25/17 21:18	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/25/17 07:11	09/25/17 21:18	1
Manganese	0.19		0.025	0.010	mg/L		09/25/17 07:11	09/25/17 21:18	1
Nickel	<0.025		0.025	0.010	mg/L		09/25/17 07:11	09/25/17 21:18	1
Selenium	<0.050		0.050	0.020	mg/L		09/25/17 07:11	09/25/17 21:18	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134343-1

Client Sample ID: PS-1(0-6)-092017

Lab Sample ID: 500-134343-1

Date Collected: 09/20/17 08:05

Matrix: Solid

Date Received: 09/21/17 16:37

Percent Solids: 85.6

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		09/25/17 07:11	09/25/17 21:18	1
Zinc	0.20	J	0.50	0.020	mg/L		09/25/17 07:11	09/25/17 21:18	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2	F1	1.2	0.23	mg/Kg	☼	09/22/17 17:15	09/26/17 01:42	1
Arsenic	10	F1 F2	0.58	0.20	mg/Kg	☼	09/22/17 17:15	09/26/17 01:42	1
Barium	44	F1	0.58	0.066	mg/Kg	☼	09/22/17 17:15	09/26/17 01:42	1
Beryllium	0.57		0.23	0.054	mg/Kg	☼	09/22/17 17:15	09/26/17 01:42	1
Cadmium	0.30	B	0.12	0.021	mg/Kg	☼	09/22/17 17:15	09/26/17 01:42	1
Calcium	68000	B	120	20	mg/Kg	☼	09/22/17 17:15	09/26/17 20:00	10
Chromium	14	F1	0.58	0.29	mg/Kg	☼	09/22/17 17:15	09/26/17 01:42	1
Cobalt	14		0.29	0.076	mg/Kg	☼	09/22/17 17:15	09/26/17 01:42	1
Copper	32	F1	0.58	0.16	mg/Kg	☼	09/22/17 17:15	09/26/17 01:42	1
Iron	19000		12	6.0	mg/Kg	☼	09/22/17 17:15	09/26/17 01:42	1
Lead	18	F1	0.29	0.13	mg/Kg	☼	09/22/17 17:15	09/26/17 01:42	1
Magnesium	24000		5.8	2.9	mg/Kg	☼	09/22/17 17:15	09/26/17 01:42	1
Manganese	320		0.58	0.084	mg/Kg	☼	09/22/17 17:15	09/26/17 01:42	1
Nickel	32	F1	0.58	0.17	mg/Kg	☼	09/22/17 17:15	09/26/17 01:42	1
Potassium	2200	F1	29	10	mg/Kg	☼	09/22/17 17:15	09/26/17 01:42	1
Selenium	<0.58	F1	0.58	0.34	mg/Kg	☼	09/22/17 17:15	09/26/17 01:42	1
Silver	<0.29		0.29	0.075	mg/Kg	☼	09/22/17 17:15	09/26/17 01:42	1
Sodium	220		58	8.6	mg/Kg	☼	09/22/17 17:15	09/26/17 01:42	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	09/22/17 17:15	09/26/17 01:42	1
Vanadium	18	F1	0.29	0.069	mg/Kg	☼	09/22/17 17:15	09/26/17 01:42	1
Zinc	72	F1	1.2	0.51	mg/Kg	☼	09/22/17 17:15	09/26/17 01:42	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		09/26/17 14:10	09/27/17 07:32	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		09/25/17 16:40	09/26/17 10:44	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	43	F1 F2	19	6.2	ug/Kg	☼	09/23/17 13:20	09/25/17 13:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.9		0.20	0.20	SU			09/25/17 16:25	1

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134343-1

Client Sample ID: PS-1(6-13)-092017

Lab Sample ID: 500-134343-2

Date Collected: 09/20/17 08:10

Matrix: Solid

Date Received: 09/21/17 16:37

Percent Solids: 85.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	30		17	7.2	ug/Kg	☼	09/21/17 17:50	09/22/17 16:23	1
Benzene	<1.7		1.7	0.42	ug/Kg	☼	09/21/17 17:50	09/22/17 16:23	1
Bromodichloromethane	<1.7		1.7	0.34	ug/Kg	☼	09/21/17 17:50	09/22/17 16:23	1
Bromoform	<1.7		1.7	0.48	ug/Kg	☼	09/21/17 17:50	09/22/17 16:23	1
Bromomethane	<4.1		4.1	1.6	ug/Kg	☼	09/21/17 17:50	09/22/17 16:23	1
Carbon disulfide	<4.1		4.1	0.86	ug/Kg	☼	09/21/17 17:50	09/22/17 16:23	1
Carbon tetrachloride	<1.7		1.7	0.48	ug/Kg	☼	09/21/17 17:50	09/22/17 16:23	1
Chlorobenzene	<1.7		1.7	0.61	ug/Kg	☼	09/21/17 17:50	09/22/17 16:23	1
Chloroethane	<4.1 *		4.1	1.2	ug/Kg	☼	09/21/17 17:50	09/22/17 16:23	1
Chloroform	<1.7		1.7	0.58	ug/Kg	☼	09/21/17 17:50	09/22/17 16:23	1
Chloromethane	<4.1		4.1	1.7	ug/Kg	☼	09/21/17 17:50	09/22/17 16:23	1
cis-1,2-Dichloroethene	<1.7		1.7	0.46	ug/Kg	☼	09/21/17 17:50	09/22/17 16:23	1
cis-1,3-Dichloropropene	<1.7		1.7	0.50	ug/Kg	☼	09/21/17 17:50	09/22/17 16:23	1
Dibromochloromethane	<1.7		1.7	0.54	ug/Kg	☼	09/21/17 17:50	09/22/17 16:23	1
1,1-Dichloroethane	<1.7		1.7	0.57	ug/Kg	☼	09/21/17 17:50	09/22/17 16:23	1
1,2-Dichloroethane	<4.1		4.1	1.3	ug/Kg	☼	09/21/17 17:50	09/22/17 16:23	1
1,1-Dichloroethene	<1.7		1.7	0.57	ug/Kg	☼	09/21/17 17:50	09/22/17 16:23	1
1,2-Dichloropropane	<1.7		1.7	0.43	ug/Kg	☼	09/21/17 17:50	09/22/17 16:23	1
1,3-Dichloropropene, Total	<1.7		1.7	0.58	ug/Kg	☼	09/21/17 17:50	09/22/17 16:23	1
Ethylbenzene	<1.7		1.7	0.79	ug/Kg	☼	09/21/17 17:50	09/22/17 16:23	1
2-Hexanone	<4.1		4.1	1.3	ug/Kg	☼	09/21/17 17:50	09/22/17 16:23	1
Methylene Chloride	<4.1		4.1	1.6	ug/Kg	☼	09/21/17 17:50	09/22/17 16:23	1
Methyl Ethyl Ketone	<4.1		4.1	1.8	ug/Kg	☼	09/21/17 17:50	09/22/17 16:23	1
methyl isobutyl ketone	<4.1		4.1	1.2	ug/Kg	☼	09/21/17 17:50	09/22/17 16:23	1
Methyl tert-butyl ether	<1.7		1.7	0.49	ug/Kg	☼	09/21/17 17:50	09/22/17 16:23	1
Styrene	<1.7		1.7	0.50	ug/Kg	☼	09/21/17 17:50	09/22/17 16:23	1
1,1,2,2-Tetrachloroethane	<1.7		1.7	0.53	ug/Kg	☼	09/21/17 17:50	09/22/17 16:23	1
Tetrachloroethene	<1.7		1.7	0.56	ug/Kg	☼	09/21/17 17:50	09/22/17 16:23	1
Toluene	<1.7		1.7	0.42	ug/Kg	☼	09/21/17 17:50	09/22/17 16:23	1
trans-1,2-Dichloroethene	<1.7		1.7	0.73	ug/Kg	☼	09/21/17 17:50	09/22/17 16:23	1
trans-1,3-Dichloropropene	<1.7		1.7	0.58	ug/Kg	☼	09/21/17 17:50	09/22/17 16:23	1
1,1,1-Trichloroethane	<1.7		1.7	0.56	ug/Kg	☼	09/21/17 17:50	09/22/17 16:23	1
1,1,2-Trichloroethane	<1.7		1.7	0.71	ug/Kg	☼	09/21/17 17:50	09/22/17 16:23	1
Trichloroethene	<1.7		1.7	0.56	ug/Kg	☼	09/21/17 17:50	09/22/17 16:23	1
Vinyl chloride	<1.7		1.7	0.73	ug/Kg	☼	09/21/17 17:50	09/22/17 16:23	1
Xylenes, Total	<3.3		3.3	0.53	ug/Kg	☼	09/21/17 17:50	09/22/17 16:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		75 - 131	09/21/17 17:50	09/22/17 16:23	1
Dibromofluoromethane	99		75 - 126	09/21/17 17:50	09/22/17 16:23	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	09/21/17 17:50	09/22/17 16:23	1
Toluene-d8 (Surr)	95		75 - 124	09/21/17 17:50	09/22/17 16:23	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	☼	09/26/17 06:56	09/28/17 16:27	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	09/26/17 06:56	09/28/17 16:27	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	09/26/17 06:56	09/28/17 16:27	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	09/26/17 06:56	09/28/17 16:27	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	09/26/17 06:56	09/28/17 16:27	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134343-1

Client Sample ID: PS-1(6-13)-092017

Lab Sample ID: 500-134343-2

Date Collected: 09/20/17 08:10

Matrix: Solid

Date Received: 09/21/17 16:37

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	<380		380	88	ug/Kg	☼	09/26/17 06:56	09/28/17 16:27	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	09/26/17 06:56	09/28/17 16:27	1
2,4-Dichlorophenol	<380		380	91	ug/Kg	☼	09/26/17 06:56	09/28/17 16:27	1
2,4-Dimethylphenol	<380		380	150	ug/Kg	☼	09/26/17 06:56	09/28/17 16:27	1
2,4-Dinitrophenol	<770		770	680	ug/Kg	☼	09/26/17 06:56	09/28/17 16:27	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	09/26/17 06:56	09/28/17 16:27	1
2,6-Dinitrotoluene	<190		190	75	ug/Kg	☼	09/26/17 06:56	09/28/17 16:27	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	09/26/17 06:56	09/28/17 16:27	1
2-Chlorophenol	<190		190	65	ug/Kg	☼	09/26/17 06:56	09/28/17 16:27	1
2-Methylnaphthalene	28	J	77	7.1	ug/Kg	☼	09/26/17 06:56	09/28/17 16:27	1
2-Methylphenol	<190		190	62	ug/Kg	☼	09/26/17 06:56	09/28/17 16:27	1
2-Nitroaniline	<190		190	52	ug/Kg	☼	09/26/17 06:56	09/28/17 16:27	1
2-Nitrophenol	<380		380	91	ug/Kg	☼	09/26/17 06:56	09/28/17 16:27	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	☼	09/26/17 06:56	09/28/17 16:27	1
3,3'-Dichlorobenzidine	<190		190	54	ug/Kg	☼	09/26/17 06:56	09/28/17 16:27	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	09/26/17 06:56	09/28/17 16:27	1
4,6-Dinitro-2-methylphenol	<770		770	310	ug/Kg	☼	09/26/17 06:56	09/28/17 16:27	1
4-Bromophenyl phenyl ether	<190		190	51	ug/Kg	☼	09/26/17 06:56	09/28/17 16:27	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	09/26/17 06:56	09/28/17 16:27	1
4-Chloroaniline	<770		770	180	ug/Kg	☼	09/26/17 06:56	09/28/17 16:27	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	09/26/17 06:56	09/28/17 16:27	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	09/26/17 06:56	09/28/17 16:27	1
4-Nitrophenol	<770		770	370	ug/Kg	☼	09/26/17 06:56	09/28/17 16:27	1
Acenaphthene	7.6	J	38	6.9	ug/Kg	☼	09/26/17 06:56	09/28/17 16:27	1
Acenaphthylene	<38		38	5.1	ug/Kg	☼	09/26/17 06:56	09/28/17 16:27	1
Anthracene	<38		38	6.4	ug/Kg	☼	09/26/17 06:56	09/28/17 16:27	1
Benzo[a]anthracene	<38		38	5.2	ug/Kg	☼	09/26/17 06:56	09/28/17 16:27	1
Benzo[a]pyrene	<38		38	7.4	ug/Kg	☼	09/26/17 06:56	09/28/17 16:27	1
Benzo[b]fluoranthene	<38		38	8.3	ug/Kg	☼	09/26/17 06:56	09/28/17 16:27	1
Benzo[g,h,i]perylene	<38		38	12	ug/Kg	☼	09/26/17 06:56	09/28/17 16:27	1
Benzo[k]fluoranthene	<38		38	11	ug/Kg	☼	09/26/17 06:56	09/28/17 16:27	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	09/26/17 06:56	09/28/17 16:27	1
Bis(2-chloroethyl)ether	<190		190	58	ug/Kg	☼	09/26/17 06:56	09/28/17 16:27	1
Bis(2-ethylhexyl) phthalate	<190		190	70	ug/Kg	☼	09/26/17 06:56	09/28/17 16:27	1
Butyl benzyl phthalate	<190		190	73	ug/Kg	☼	09/26/17 06:56	09/28/17 16:27	1
Carbazole	<190		190	96	ug/Kg	☼	09/26/17 06:56	09/28/17 16:27	1
Chrysene	26	J	38	10	ug/Kg	☼	09/26/17 06:56	09/28/17 16:27	1
Dibenz(a,h)anthracene	<38		38	7.4	ug/Kg	☼	09/26/17 06:56	09/28/17 16:27	1
Dibenzofuran	<190		190	45	ug/Kg	☼	09/26/17 06:56	09/28/17 16:27	1
Diethyl phthalate	<190		190	65	ug/Kg	☼	09/26/17 06:56	09/28/17 16:27	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	09/26/17 06:56	09/28/17 16:27	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	09/26/17 06:56	09/28/17 16:27	1
Di-n-octyl phthalate	<190		190	63	ug/Kg	☼	09/26/17 06:56	09/28/17 16:27	1
Fluoranthene	10	J	38	7.1	ug/Kg	☼	09/26/17 06:56	09/28/17 16:27	1
Fluorene	7.4	J	38	5.4	ug/Kg	☼	09/26/17 06:56	09/28/17 16:27	1
Hexachlorobenzene	<77		77	8.9	ug/Kg	☼	09/26/17 06:56	09/28/17 16:27	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	09/26/17 06:56	09/28/17 16:27	1
Hexachlorocyclopentadiene	<770		770	220	ug/Kg	☼	09/26/17 06:56	09/28/17 16:27	1
Hexachloroethane	<190		190	58	ug/Kg	☼	09/26/17 06:56	09/28/17 16:27	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134343-1

Client Sample ID: PS-1(6-13)-092017

Lab Sample ID: 500-134343-2

Date Collected: 09/20/17 08:10

Matrix: Solid

Date Received: 09/21/17 16:37

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	<38		38	9.9	ug/Kg	☼	09/26/17 06:56	09/28/17 16:27	1
Isophorone	<190		190	43	ug/Kg	☼	09/26/17 06:56	09/28/17 16:27	1
Naphthalene	11	J	38	5.9	ug/Kg	☼	09/26/17 06:56	09/28/17 16:27	1
Nitrobenzene	<38		38	9.6	ug/Kg	☼	09/26/17 06:56	09/28/17 16:27	1
N-Nitrosodi-n-propylamine	<77		77	47	ug/Kg	☼	09/26/17 06:56	09/28/17 16:27	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	09/26/17 06:56	09/28/17 16:27	1
Pentachlorophenol	<770		770	620	ug/Kg	☼	09/26/17 06:56	09/28/17 16:27	1
Phenanthrene	70		38	5.3	ug/Kg	☼	09/26/17 06:56	09/28/17 16:27	1
Phenol	<190		190	85	ug/Kg	☼	09/26/17 06:56	09/28/17 16:27	1
Pyrene	23	J	38	7.6	ug/Kg	☼	09/26/17 06:56	09/28/17 16:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	75		25 - 139				09/26/17 06:56	09/28/17 16:27	1
2-Fluorobiphenyl	87		44 - 121				09/26/17 06:56	09/28/17 16:27	1
2-Fluorophenol	121		46 - 133				09/26/17 06:56	09/28/17 16:27	1
Nitrobenzene-d5	88		41 - 120				09/26/17 06:56	09/28/17 16:27	1
Phenol-d5	102		46 - 125				09/26/17 06:56	09/28/17 16:27	1
Terphenyl-d14	97		35 - 160				09/26/17 06:56	09/28/17 16:27	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/26/17 15:02	09/27/17 12:59	1
Barium	0.14	J	0.50	0.050	mg/L		09/26/17 15:02	09/27/17 12:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/26/17 15:02	09/27/17 12:59	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/26/17 15:02	09/27/17 12:59	1
Chromium	<0.025		0.025	0.010	mg/L		09/26/17 15:02	09/27/17 12:59	1
Cobalt	0.030		0.025	0.010	mg/L		09/26/17 15:02	09/27/17 12:59	1
Copper	0.076	J B	0.20	0.010	mg/L		09/26/17 15:02	09/27/17 12:59	1
Iron	<0.40		0.40	0.20	mg/L		09/26/17 15:02	09/27/17 12:59	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/26/17 15:02	09/27/17 12:59	1
Manganese	2.7		0.025	0.010	mg/L		09/26/17 15:02	09/27/17 12:59	1
Nickel	0.044		0.025	0.010	mg/L		09/26/17 15:02	09/27/17 12:59	1
Selenium	<0.050		0.050	0.020	mg/L		09/26/17 15:02	09/27/17 12:59	1
Silver	<0.025		0.025	0.010	mg/L		09/26/17 15:02	09/27/17 12:59	1
Zinc	0.051	J B	0.50	0.020	mg/L		09/26/17 15:02	09/27/17 12:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/25/17 07:11	09/25/17 21:22	1
Barium	0.075	J	0.50	0.050	mg/L		09/25/17 07:11	09/25/17 21:22	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/25/17 07:11	09/25/17 21:22	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/25/17 07:11	09/25/17 21:22	1
Chromium	<0.025		0.025	0.010	mg/L		09/25/17 07:11	09/25/17 21:22	1
Cobalt	<0.025		0.025	0.010	mg/L		09/25/17 07:11	09/25/17 21:22	1
Copper	0.017	J	0.025	0.010	mg/L		09/25/17 07:11	09/25/17 21:22	1
Iron	<0.40		0.40	0.20	mg/L		09/25/17 07:11	09/25/17 21:22	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/25/17 07:11	09/25/17 21:22	1
Manganese	0.15		0.025	0.010	mg/L		09/25/17 07:11	09/25/17 21:22	1
Nickel	<0.025		0.025	0.010	mg/L		09/25/17 07:11	09/25/17 21:22	1
Selenium	<0.050		0.050	0.020	mg/L		09/25/17 07:11	09/25/17 21:22	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134343-1

Client Sample ID: PS-1(6-13)-092017

Lab Sample ID: 500-134343-2

Date Collected: 09/20/17 08:10

Matrix: Solid

Date Received: 09/21/17 16:37

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		09/25/17 07:11	09/25/17 21:22	1
Zinc	0.29	J	0.50	0.020	mg/L		09/25/17 07:11	09/25/17 21:22	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	☼	09/22/17 17:15	09/26/17 02:11	1
Arsenic	11		0.57	0.20	mg/Kg	☼	09/22/17 17:15	09/26/17 02:11	1
Barium	22		0.57	0.065	mg/Kg	☼	09/22/17 17:15	09/26/17 02:11	1
Beryllium	0.47		0.23	0.053	mg/Kg	☼	09/22/17 17:15	09/26/17 02:11	1
Cadmium	0.30	B	0.11	0.021	mg/Kg	☼	09/22/17 17:15	09/26/17 02:11	1
Calcium	86000	B	110	19	mg/Kg	☼	09/22/17 17:15	09/26/17 20:28	10
Chromium	11		0.57	0.28	mg/Kg	☼	09/22/17 17:15	09/26/17 02:11	1
Cobalt	12		0.29	0.075	mg/Kg	☼	09/22/17 17:15	09/26/17 02:11	1
Copper	33		0.57	0.16	mg/Kg	☼	09/22/17 17:15	09/26/17 02:11	1
Iron	18000		11	6.0	mg/Kg	☼	09/22/17 17:15	09/26/17 02:11	1
Lead	19		0.29	0.13	mg/Kg	☼	09/22/17 17:15	09/26/17 02:11	1
Magnesium	28000		5.7	2.8	mg/Kg	☼	09/22/17 17:15	09/26/17 02:11	1
Manganese	360		0.57	0.083	mg/Kg	☼	09/22/17 17:15	09/26/17 02:11	1
Nickel	28		0.57	0.17	mg/Kg	☼	09/22/17 17:15	09/26/17 02:11	1
Potassium	2000		29	10	mg/Kg	☼	09/22/17 17:15	09/26/17 02:11	1
Selenium	<0.57		0.57	0.34	mg/Kg	☼	09/22/17 17:15	09/26/17 02:11	1
Silver	<0.29		0.29	0.074	mg/Kg	☼	09/22/17 17:15	09/26/17 02:11	1
Sodium	190		57	8.5	mg/Kg	☼	09/22/17 17:15	09/26/17 02:11	1
Thallium	0.53	J	0.57	0.29	mg/Kg	☼	09/22/17 17:15	09/26/17 02:11	1
Vanadium	14		0.29	0.068	mg/Kg	☼	09/22/17 17:15	09/26/17 02:11	1
Zinc	83		1.1	0.50	mg/Kg	☼	09/22/17 17:15	09/26/17 02:11	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		09/26/17 14:10	09/27/17 07:34	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		09/25/17 16:40	09/26/17 10:50	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	25		17	5.7	ug/Kg	☼	09/23/17 13:20	09/25/17 13:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.8		0.20	0.20	SU			09/25/17 16:41	1

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134343-1

Client Sample ID: PS-2(0-6)-092017

Lab Sample ID: 500-134343-3

Date Collected: 09/20/17 08:22

Matrix: Solid

Date Received: 09/21/17 16:37

Percent Solids: 87.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	18		16	7.1	ug/Kg	☼	09/21/17 17:50	09/22/17 16:48	1
Benzene	<1.6		1.6	0.42	ug/Kg	☼	09/21/17 17:50	09/22/17 16:48	1
Bromodichloromethane	<1.6		1.6	0.33	ug/Kg	☼	09/21/17 17:50	09/22/17 16:48	1
Bromoform	<1.6		1.6	0.48	ug/Kg	☼	09/21/17 17:50	09/22/17 16:48	1
Bromomethane	<4.1		4.1	1.5	ug/Kg	☼	09/21/17 17:50	09/22/17 16:48	1
Carbon disulfide	<4.1		4.1	0.85	ug/Kg	☼	09/21/17 17:50	09/22/17 16:48	1
Carbon tetrachloride	<1.6		1.6	0.47	ug/Kg	☼	09/21/17 17:50	09/22/17 16:48	1
Chlorobenzene	<1.6		1.6	0.60	ug/Kg	☼	09/21/17 17:50	09/22/17 16:48	1
Chloroethane	<4.1 *		4.1	1.2	ug/Kg	☼	09/21/17 17:50	09/22/17 16:48	1
Chloroform	<1.6		1.6	0.57	ug/Kg	☼	09/21/17 17:50	09/22/17 16:48	1
Chloromethane	<4.1		4.1	1.6	ug/Kg	☼	09/21/17 17:50	09/22/17 16:48	1
cis-1,2-Dichloroethene	<1.6		1.6	0.46	ug/Kg	☼	09/21/17 17:50	09/22/17 16:48	1
cis-1,3-Dichloropropene	<1.6		1.6	0.49	ug/Kg	☼	09/21/17 17:50	09/22/17 16:48	1
Dibromochloromethane	<1.6		1.6	0.53	ug/Kg	☼	09/21/17 17:50	09/22/17 16:48	1
1,1-Dichloroethane	<1.6		1.6	0.56	ug/Kg	☼	09/21/17 17:50	09/22/17 16:48	1
1,2-Dichloroethane	<4.1		4.1	1.3	ug/Kg	☼	09/21/17 17:50	09/22/17 16:48	1
1,1-Dichloroethene	<1.6		1.6	0.56	ug/Kg	☼	09/21/17 17:50	09/22/17 16:48	1
1,2-Dichloropropane	<1.6		1.6	0.42	ug/Kg	☼	09/21/17 17:50	09/22/17 16:48	1
1,3-Dichloropropene, Total	<1.6		1.6	0.57	ug/Kg	☼	09/21/17 17:50	09/22/17 16:48	1
Ethylbenzene	<1.6		1.6	0.78	ug/Kg	☼	09/21/17 17:50	09/22/17 16:48	1
2-Hexanone	<4.1		4.1	1.3	ug/Kg	☼	09/21/17 17:50	09/22/17 16:48	1
Methylene Chloride	<4.1		4.1	1.6	ug/Kg	☼	09/21/17 17:50	09/22/17 16:48	1
Methyl Ethyl Ketone	<4.1		4.1	1.8	ug/Kg	☼	09/21/17 17:50	09/22/17 16:48	1
methyl isobutyl ketone	<4.1		4.1	1.2	ug/Kg	☼	09/21/17 17:50	09/22/17 16:48	1
Methyl tert-butyl ether	<1.6		1.6	0.48	ug/Kg	☼	09/21/17 17:50	09/22/17 16:48	1
Styrene	<1.6		1.6	0.49	ug/Kg	☼	09/21/17 17:50	09/22/17 16:48	1
1,1,2,2-Tetrachloroethane	<1.6		1.6	0.52	ug/Kg	☼	09/21/17 17:50	09/22/17 16:48	1
Tetrachloroethene	<1.6		1.6	0.56	ug/Kg	☼	09/21/17 17:50	09/22/17 16:48	1
Toluene	<1.6		1.6	0.41	ug/Kg	☼	09/21/17 17:50	09/22/17 16:48	1
trans-1,2-Dichloroethene	<1.6		1.6	0.72	ug/Kg	☼	09/21/17 17:50	09/22/17 16:48	1
trans-1,3-Dichloropropene	<1.6		1.6	0.57	ug/Kg	☼	09/21/17 17:50	09/22/17 16:48	1
1,1,1-Trichloroethane	<1.6		1.6	0.55	ug/Kg	☼	09/21/17 17:50	09/22/17 16:48	1
1,1,2-Trichloroethane	<1.6		1.6	0.70	ug/Kg	☼	09/21/17 17:50	09/22/17 16:48	1
Trichloroethene	<1.6		1.6	0.55	ug/Kg	☼	09/21/17 17:50	09/22/17 16:48	1
Vinyl chloride	<1.6		1.6	0.72	ug/Kg	☼	09/21/17 17:50	09/22/17 16:48	1
Xylenes, Total	<3.3		3.3	0.52	ug/Kg	☼	09/21/17 17:50	09/22/17 16:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		75 - 131	09/21/17 17:50	09/22/17 16:48	1
Dibromofluoromethane	106		75 - 126	09/21/17 17:50	09/22/17 16:48	1
1,2-Dichloroethane-d4 (Surr)	111		70 - 134	09/21/17 17:50	09/22/17 16:48	1
Toluene-d8 (Surr)	107		75 - 124	09/21/17 17:50	09/22/17 16:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	40	ug/Kg	☼	09/26/17 06:56	09/28/17 18:05	1
1,2-Dichlorobenzene	<190		190	44	ug/Kg	☼	09/26/17 06:56	09/28/17 18:05	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	09/26/17 06:56	09/28/17 18:05	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	09/26/17 06:56	09/28/17 18:05	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	09/26/17 06:56	09/28/17 18:05	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134343-1

Client Sample ID: PS-2(0-6)-092017

Lab Sample ID: 500-134343-3

Date Collected: 09/20/17 08:22

Matrix: Solid

Date Received: 09/21/17 16:37

Percent Solids: 87.4

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	85	ug/Kg	☼	09/26/17 06:56	09/28/17 18:05	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	09/26/17 06:56	09/28/17 18:05	1
2,4-Dichlorophenol	<370		370	88	ug/Kg	☼	09/26/17 06:56	09/28/17 18:05	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	09/26/17 06:56	09/28/17 18:05	1
2,4-Dinitrophenol	<750		750	650	ug/Kg	☼	09/26/17 06:56	09/28/17 18:05	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	09/26/17 06:56	09/28/17 18:05	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	09/26/17 06:56	09/28/17 18:05	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	09/26/17 06:56	09/28/17 18:05	1
2-Chlorophenol	<190		190	63	ug/Kg	☼	09/26/17 06:56	09/28/17 18:05	1
2-Methylnaphthalene	22	J	75	6.8	ug/Kg	☼	09/26/17 06:56	09/28/17 18:05	1
2-Methylphenol	<190		190	59	ug/Kg	☼	09/26/17 06:56	09/28/17 18:05	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	09/26/17 06:56	09/28/17 18:05	1
2-Nitrophenol	<370		370	88	ug/Kg	☼	09/26/17 06:56	09/28/17 18:05	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	09/26/17 06:56	09/28/17 18:05	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	09/26/17 06:56	09/28/17 18:05	1
3-Nitroaniline	<370		370	110	ug/Kg	☼	09/26/17 06:56	09/28/17 18:05	1
4,6-Dinitro-2-methylphenol	<750		750	300	ug/Kg	☼	09/26/17 06:56	09/28/17 18:05	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	09/26/17 06:56	09/28/17 18:05	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	09/26/17 06:56	09/28/17 18:05	1
4-Chloroaniline	<750		750	170	ug/Kg	☼	09/26/17 06:56	09/28/17 18:05	1
4-Chlorophenyl phenyl ether	<190		190	43	ug/Kg	☼	09/26/17 06:56	09/28/17 18:05	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	09/26/17 06:56	09/28/17 18:05	1
4-Nitrophenol	<750		750	350	ug/Kg	☼	09/26/17 06:56	09/28/17 18:05	1
Acenaphthene	20	J	37	6.7	ug/Kg	☼	09/26/17 06:56	09/28/17 18:05	1
Acenaphthylene	12	J	37	4.9	ug/Kg	☼	09/26/17 06:56	09/28/17 18:05	1
Anthracene	60		37	6.2	ug/Kg	☼	09/26/17 06:56	09/28/17 18:05	1
Benzo[a]anthracene	200		37	5.0	ug/Kg	☼	09/26/17 06:56	09/28/17 18:05	1
Benzo[a]pyrene	240		37	7.2	ug/Kg	☼	09/26/17 06:56	09/28/17 18:05	1
Benzo[b]fluoranthene	370		37	8.0	ug/Kg	☼	09/26/17 06:56	09/28/17 18:05	1
Benzo[g,h,i]perylene	120		37	12	ug/Kg	☼	09/26/17 06:56	09/28/17 18:05	1
Benzo[k]fluoranthene	210		37	11	ug/Kg	☼	09/26/17 06:56	09/28/17 18:05	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	09/26/17 06:56	09/28/17 18:05	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	09/26/17 06:56	09/28/17 18:05	1
Bis(2-ethylhexyl) phthalate	<190		190	68	ug/Kg	☼	09/26/17 06:56	09/28/17 18:05	1
Butyl benzyl phthalate	<190		190	71	ug/Kg	☼	09/26/17 06:56	09/28/17 18:05	1
Carbazole	<190		190	93	ug/Kg	☼	09/26/17 06:56	09/28/17 18:05	1
Chrysene	250		37	10	ug/Kg	☼	09/26/17 06:56	09/28/17 18:05	1
Dibenz(a,h)anthracene	36	J	37	7.2	ug/Kg	☼	09/26/17 06:56	09/28/17 18:05	1
Dibenzofuran	<190		190	43	ug/Kg	☼	09/26/17 06:56	09/28/17 18:05	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	09/26/17 06:56	09/28/17 18:05	1
Dimethyl phthalate	<190		190	48	ug/Kg	☼	09/26/17 06:56	09/28/17 18:05	1
Di-n-butyl phthalate	<190		190	56	ug/Kg	☼	09/26/17 06:56	09/28/17 18:05	1
Di-n-octyl phthalate	<190		190	60	ug/Kg	☼	09/26/17 06:56	09/28/17 18:05	1
Fluoranthene	430		37	6.9	ug/Kg	☼	09/26/17 06:56	09/28/17 18:05	1
Fluorene	20	J	37	5.2	ug/Kg	☼	09/26/17 06:56	09/28/17 18:05	1
Hexachlorobenzene	<75		75	8.6	ug/Kg	☼	09/26/17 06:56	09/28/17 18:05	1
Hexachlorobutadiene	<190		190	58	ug/Kg	☼	09/26/17 06:56	09/28/17 18:05	1
Hexachlorocyclopentadiene	<750		750	210	ug/Kg	☼	09/26/17 06:56	09/28/17 18:05	1
Hexachloroethane	<190		190	56	ug/Kg	☼	09/26/17 06:56	09/28/17 18:05	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134343-1

Client Sample ID: PS-2(0-6)-092017

Lab Sample ID: 500-134343-3

Date Collected: 09/20/17 08:22

Matrix: Solid

Date Received: 09/21/17 16:37

Percent Solids: 87.4

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	96		37	9.6	ug/Kg	☼	09/26/17 06:56	09/28/17 18:05	1
Isophorone	<190		190	42	ug/Kg	☼	09/26/17 06:56	09/28/17 18:05	1
Naphthalene	16	J	37	5.7	ug/Kg	☼	09/26/17 06:56	09/28/17 18:05	1
Nitrobenzene	<37		37	9.3	ug/Kg	☼	09/26/17 06:56	09/28/17 18:05	1
N-Nitrosodi-n-propylamine	<75		75	45	ug/Kg	☼	09/26/17 06:56	09/28/17 18:05	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	09/26/17 06:56	09/28/17 18:05	1
Pentachlorophenol	<750		750	590	ug/Kg	☼	09/26/17 06:56	09/28/17 18:05	1
Phenanthrene	270		37	5.2	ug/Kg	☼	09/26/17 06:56	09/28/17 18:05	1
Phenol	<190		190	82	ug/Kg	☼	09/26/17 06:56	09/28/17 18:05	1
Pyrene	400		37	7.4	ug/Kg	☼	09/26/17 06:56	09/28/17 18:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	79		25 - 139				09/26/17 06:56	09/28/17 18:05	1
2-Fluorobiphenyl	79		44 - 121				09/26/17 06:56	09/28/17 18:05	1
2-Fluorophenol	101		46 - 133				09/26/17 06:56	09/28/17 18:05	1
Nitrobenzene-d5	77		41 - 120				09/26/17 06:56	09/28/17 18:05	1
Phenol-d5	90		46 - 125				09/26/17 06:56	09/28/17 18:05	1
Terphenyl-d14	100		35 - 160				09/26/17 06:56	09/28/17 18:05	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/26/17 15:02	09/27/17 13:12	1
Barium	0.19	J	0.50	0.050	mg/L		09/26/17 15:02	09/27/17 13:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/26/17 15:02	09/27/17 13:12	1
Cadmium	0.0038	J	0.0050	0.0020	mg/L		09/26/17 15:02	09/27/17 13:12	1
Chromium	<0.025		0.025	0.010	mg/L		09/26/17 15:02	09/27/17 13:12	1
Cobalt	0.023	J	0.025	0.010	mg/L		09/26/17 15:02	09/27/17 13:12	1
Copper	0.068	J B	0.20	0.010	mg/L		09/26/17 15:02	09/27/17 13:12	1
Iron	<0.40		0.40	0.20	mg/L		09/26/17 15:02	09/27/17 13:12	1
Lead	0.038		0.0075	0.0075	mg/L		09/26/17 15:02	09/27/17 13:12	1
Manganese	2.8		0.025	0.010	mg/L		09/26/17 15:02	09/27/17 13:12	1
Nickel	0.027		0.025	0.010	mg/L		09/26/17 15:02	09/27/17 13:12	1
Selenium	<0.050		0.050	0.020	mg/L		09/26/17 15:02	09/27/17 13:12	1
Silver	<0.025		0.025	0.010	mg/L		09/26/17 15:02	09/27/17 13:12	1
Zinc	0.11	J B	0.50	0.020	mg/L		09/26/17 15:02	09/27/17 13:12	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		09/25/17 07:11	09/25/17 21:26	1
Barium	0.083	J	0.50	0.050	mg/L		09/25/17 07:11	09/25/17 21:26	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/25/17 07:11	09/25/17 21:26	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/25/17 07:11	09/25/17 21:26	1
Chromium	<0.025		0.025	0.010	mg/L		09/25/17 07:11	09/25/17 21:26	1
Cobalt	<0.025		0.025	0.010	mg/L		09/25/17 07:11	09/25/17 21:26	1
Copper	0.016	J	0.025	0.010	mg/L		09/25/17 07:11	09/25/17 21:26	1
Iron	<0.40		0.40	0.20	mg/L		09/25/17 07:11	09/25/17 21:26	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/25/17 07:11	09/25/17 21:26	1
Manganese	0.077		0.025	0.010	mg/L		09/25/17 07:11	09/25/17 21:26	1
Nickel	<0.025		0.025	0.010	mg/L		09/25/17 07:11	09/25/17 21:26	1
Selenium	<0.050		0.050	0.020	mg/L		09/25/17 07:11	09/25/17 21:26	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134343-1

Client Sample ID: PS-2(0-6)-092017

Lab Sample ID: 500-134343-3

Date Collected: 09/20/17 08:22

Matrix: Solid

Date Received: 09/21/17 16:37

Percent Solids: 87.4

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		09/25/17 07:11	09/25/17 21:26	1
Zinc	0.053	J	0.50	0.020	mg/L		09/25/17 07:11	09/25/17 21:26	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	☼	09/22/17 17:15	09/26/17 02:15	1
Arsenic	9.8		0.57	0.19	mg/Kg	☼	09/22/17 17:15	09/26/17 02:15	1
Barium	40		0.57	0.065	mg/Kg	☼	09/22/17 17:15	09/26/17 02:15	1
Beryllium	0.52		0.23	0.053	mg/Kg	☼	09/22/17 17:15	09/26/17 02:15	1
Cadmium	0.38	B	0.11	0.021	mg/Kg	☼	09/22/17 17:15	09/26/17 02:15	1
Calcium	77000	B	110	19	mg/Kg	☼	09/22/17 17:15	09/26/17 20:32	10
Chromium	14		0.57	0.28	mg/Kg	☼	09/22/17 17:15	09/26/17 02:15	1
Cobalt	12		0.28	0.075	mg/Kg	☼	09/22/17 17:15	09/26/17 02:15	1
Copper	34		0.57	0.16	mg/Kg	☼	09/22/17 17:15	09/26/17 02:15	1
Iron	18000		11	5.9	mg/Kg	☼	09/22/17 17:15	09/26/17 02:15	1
Lead	150		0.28	0.13	mg/Kg	☼	09/22/17 17:15	09/26/17 02:15	1
Magnesium	24000		5.7	2.8	mg/Kg	☼	09/22/17 17:15	09/26/17 02:15	1
Manganese	300		0.57	0.083	mg/Kg	☼	09/22/17 17:15	09/26/17 02:15	1
Nickel	29		0.57	0.17	mg/Kg	☼	09/22/17 17:15	09/26/17 02:15	1
Potassium	1900		28	10	mg/Kg	☼	09/22/17 17:15	09/26/17 02:15	1
Selenium	<0.57		0.57	0.34	mg/Kg	☼	09/22/17 17:15	09/26/17 02:15	1
Silver	<0.28		0.28	0.073	mg/Kg	☼	09/22/17 17:15	09/26/17 02:15	1
Sodium	250		57	8.4	mg/Kg	☼	09/22/17 17:15	09/26/17 02:15	1
Thallium	0.38	J	0.57	0.28	mg/Kg	☼	09/22/17 17:15	09/26/17 02:15	1
Vanadium	17		0.28	0.067	mg/Kg	☼	09/22/17 17:15	09/26/17 02:15	1
Zinc	98		1.1	0.50	mg/Kg	☼	09/22/17 17:15	09/26/17 02:15	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		09/26/17 14:10	09/27/17 07:35	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		09/25/17 16:40	09/26/17 10:55	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	40		19	6.3	ug/Kg	☼	09/23/17 13:20	09/25/17 14:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.6		0.20	0.20	SU			09/25/17 16:57	1

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134343-1

Client Sample ID: PS-2(6-13)-092017

Lab Sample ID: 500-134343-4

Date Collected: 09/20/17 08:32

Matrix: Solid

Date Received: 09/21/17 16:37

Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	37		18	8.0	ug/Kg	☼	09/21/17 17:50	09/22/17 17:13	1
Benzene	<1.8		1.8	0.47	ug/Kg	☼	09/21/17 17:50	09/22/17 17:13	1
Bromodichloromethane	<1.8		1.8	0.37	ug/Kg	☼	09/21/17 17:50	09/22/17 17:13	1
Bromoform	<1.8		1.8	0.53	ug/Kg	☼	09/21/17 17:50	09/22/17 17:13	1
Bromomethane	<4.6		4.6	1.7	ug/Kg	☼	09/21/17 17:50	09/22/17 17:13	1
Carbon disulfide	<4.6		4.6	0.95	ug/Kg	☼	09/21/17 17:50	09/22/17 17:13	1
Carbon tetrachloride	<1.8		1.8	0.53	ug/Kg	☼	09/21/17 17:50	09/22/17 17:13	1
Chlorobenzene	<1.8		1.8	0.68	ug/Kg	☼	09/21/17 17:50	09/22/17 17:13	1
Chloroethane	<4.6 *		4.6	1.4	ug/Kg	☼	09/21/17 17:50	09/22/17 17:13	1
Chloroform	<1.8		1.8	0.64	ug/Kg	☼	09/21/17 17:50	09/22/17 17:13	1
Chloromethane	<4.6		4.6	1.8	ug/Kg	☼	09/21/17 17:50	09/22/17 17:13	1
cis-1,2-Dichloroethene	<1.8		1.8	0.51	ug/Kg	☼	09/21/17 17:50	09/22/17 17:13	1
cis-1,3-Dichloropropene	<1.8		1.8	0.55	ug/Kg	☼	09/21/17 17:50	09/22/17 17:13	1
Dibromochloromethane	<1.8		1.8	0.60	ug/Kg	☼	09/21/17 17:50	09/22/17 17:13	1
1,1-Dichloroethane	<1.8		1.8	0.63	ug/Kg	☼	09/21/17 17:50	09/22/17 17:13	1
1,2-Dichloroethane	<4.6		4.6	1.4	ug/Kg	☼	09/21/17 17:50	09/22/17 17:13	1
1,1-Dichloroethene	<1.8		1.8	0.63	ug/Kg	☼	09/21/17 17:50	09/22/17 17:13	1
1,2-Dichloropropane	<1.8		1.8	0.47	ug/Kg	☼	09/21/17 17:50	09/22/17 17:13	1
1,3-Dichloropropene, Total	<1.8		1.8	0.64	ug/Kg	☼	09/21/17 17:50	09/22/17 17:13	1
Ethylbenzene	<1.8		1.8	0.88	ug/Kg	☼	09/21/17 17:50	09/22/17 17:13	1
2-Hexanone	<4.6		4.6	1.4	ug/Kg	☼	09/21/17 17:50	09/22/17 17:13	1
Methylene Chloride	<4.6		4.6	1.8	ug/Kg	☼	09/21/17 17:50	09/22/17 17:13	1
Methyl Ethyl Ketone	<4.6		4.6	2.0	ug/Kg	☼	09/21/17 17:50	09/22/17 17:13	1
methyl isobutyl ketone	<4.6		4.6	1.4	ug/Kg	☼	09/21/17 17:50	09/22/17 17:13	1
Methyl tert-butyl ether	<1.8		1.8	0.54	ug/Kg	☼	09/21/17 17:50	09/22/17 17:13	1
Styrene	<1.8		1.8	0.55	ug/Kg	☼	09/21/17 17:50	09/22/17 17:13	1
1,1,2,2-Tetrachloroethane	<1.8		1.8	0.59	ug/Kg	☼	09/21/17 17:50	09/22/17 17:13	1
Tetrachloroethene	<1.8		1.8	0.62	ug/Kg	☼	09/21/17 17:50	09/22/17 17:13	1
Toluene	<1.8		1.8	0.46	ug/Kg	☼	09/21/17 17:50	09/22/17 17:13	1
trans-1,2-Dichloroethene	<1.8		1.8	0.81	ug/Kg	☼	09/21/17 17:50	09/22/17 17:13	1
trans-1,3-Dichloropropene	<1.8		1.8	0.64	ug/Kg	☼	09/21/17 17:50	09/22/17 17:13	1
1,1,1-Trichloroethane	<1.8		1.8	0.61	ug/Kg	☼	09/21/17 17:50	09/22/17 17:13	1
1,1,2-Trichloroethane	<1.8		1.8	0.79	ug/Kg	☼	09/21/17 17:50	09/22/17 17:13	1
Trichloroethene	<1.8		1.8	0.62	ug/Kg	☼	09/21/17 17:50	09/22/17 17:13	1
Vinyl chloride	<1.8		1.8	0.81	ug/Kg	☼	09/21/17 17:50	09/22/17 17:13	1
Xylenes, Total	<3.7		3.7	0.59	ug/Kg	☼	09/21/17 17:50	09/22/17 17:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		75 - 131	09/21/17 17:50	09/22/17 17:13	1
Dibromofluoromethane	99		75 - 126	09/21/17 17:50	09/22/17 17:13	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	09/21/17 17:50	09/22/17 17:13	1
Toluene-d8 (Surr)	102		75 - 124	09/21/17 17:50	09/22/17 17:13	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	☼	09/26/17 06:56	09/28/17 16:52	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	09/26/17 06:56	09/28/17 16:52	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	09/26/17 06:56	09/28/17 16:52	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	09/26/17 06:56	09/28/17 16:52	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	09/26/17 06:56	09/28/17 16:52	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134343-1

Client Sample ID: PS-2(6-13)-092017

Lab Sample ID: 500-134343-4

Date Collected: 09/20/17 08:32

Matrix: Solid

Date Received: 09/21/17 16:37

Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<380		380	86	ug/Kg	☼	09/26/17 06:56	09/28/17 16:52	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	09/26/17 06:56	09/28/17 16:52	1
2,4-Dichlorophenol	<380		380	90	ug/Kg	☼	09/26/17 06:56	09/28/17 16:52	1
2,4-Dimethylphenol	<380		380	140	ug/Kg	☼	09/26/17 06:56	09/28/17 16:52	1
2,4-Dinitrophenol	<760		760	670	ug/Kg	☼	09/26/17 06:56	09/28/17 16:52	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	09/26/17 06:56	09/28/17 16:52	1
2,6-Dinitrotoluene	<190		190	74	ug/Kg	☼	09/26/17 06:56	09/28/17 16:52	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	09/26/17 06:56	09/28/17 16:52	1
2-Chlorophenol	<190		190	65	ug/Kg	☼	09/26/17 06:56	09/28/17 16:52	1
2-Methylnaphthalene	48	J	76	7.0	ug/Kg	☼	09/26/17 06:56	09/28/17 16:52	1
2-Methylphenol	<190		190	61	ug/Kg	☼	09/26/17 06:56	09/28/17 16:52	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	09/26/17 06:56	09/28/17 16:52	1
2-Nitrophenol	<380		380	89	ug/Kg	☼	09/26/17 06:56	09/28/17 16:52	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	09/26/17 06:56	09/28/17 16:52	1
3,3'-Dichlorobenzidine	<190		190	53	ug/Kg	☼	09/26/17 06:56	09/28/17 16:52	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	09/26/17 06:56	09/28/17 16:52	1
4,6-Dinitro-2-methylphenol	<760		760	300	ug/Kg	☼	09/26/17 06:56	09/28/17 16:52	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	09/26/17 06:56	09/28/17 16:52	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	09/26/17 06:56	09/28/17 16:52	1
4-Chloroaniline	<760		760	180	ug/Kg	☼	09/26/17 06:56	09/28/17 16:52	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	09/26/17 06:56	09/28/17 16:52	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	09/26/17 06:56	09/28/17 16:52	1
4-Nitrophenol	<760		760	360	ug/Kg	☼	09/26/17 06:56	09/28/17 16:52	1
Acenaphthene	14	J	38	6.8	ug/Kg	☼	09/26/17 06:56	09/28/17 16:52	1
Acenaphthylene	<38		38	5.0	ug/Kg	☼	09/26/17 06:56	09/28/17 16:52	1
Anthracene	20	J	38	6.3	ug/Kg	☼	09/26/17 06:56	09/28/17 16:52	1
Benzo[a]anthracene	42		38	5.1	ug/Kg	☼	09/26/17 06:56	09/28/17 16:52	1
Benzo[a]pyrene	50		38	7.3	ug/Kg	☼	09/26/17 06:56	09/28/17 16:52	1
Benzo[b]fluoranthene	80		38	8.2	ug/Kg	☼	09/26/17 06:56	09/28/17 16:52	1
Benzo[g,h,i]perylene	25	J	38	12	ug/Kg	☼	09/26/17 06:56	09/28/17 16:52	1
Benzo[k]fluoranthene	30	J	38	11	ug/Kg	☼	09/26/17 06:56	09/28/17 16:52	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	09/26/17 06:56	09/28/17 16:52	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	09/26/17 06:56	09/28/17 16:52	1
Bis(2-ethylhexyl) phthalate	<190		190	69	ug/Kg	☼	09/26/17 06:56	09/28/17 16:52	1
Butyl benzyl phthalate	<190		190	72	ug/Kg	☼	09/26/17 06:56	09/28/17 16:52	1
Carbazole	<190		190	94	ug/Kg	☼	09/26/17 06:56	09/28/17 16:52	1
Chrysene	61		38	10	ug/Kg	☼	09/26/17 06:56	09/28/17 16:52	1
Dibenz(a,h)anthracene	<38		38	7.3	ug/Kg	☼	09/26/17 06:56	09/28/17 16:52	1
Dibenzofuran	<190		190	44	ug/Kg	☼	09/26/17 06:56	09/28/17 16:52	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	09/26/17 06:56	09/28/17 16:52	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	09/26/17 06:56	09/28/17 16:52	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	09/26/17 06:56	09/28/17 16:52	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	09/26/17 06:56	09/28/17 16:52	1
Fluoranthene	93		38	7.0	ug/Kg	☼	09/26/17 06:56	09/28/17 16:52	1
Fluorene	14	J	38	5.3	ug/Kg	☼	09/26/17 06:56	09/28/17 16:52	1
Hexachlorobenzene	<76		76	8.8	ug/Kg	☼	09/26/17 06:56	09/28/17 16:52	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	09/26/17 06:56	09/28/17 16:52	1
Hexachlorocyclopentadiene	<760		760	220	ug/Kg	☼	09/26/17 06:56	09/28/17 16:52	1
Hexachloroethane	<190		190	57	ug/Kg	☼	09/26/17 06:56	09/28/17 16:52	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134343-1

Client Sample ID: PS-2(6-13)-092017

Lab Sample ID: 500-134343-4

Date Collected: 09/20/17 08:32

Matrix: Solid

Date Received: 09/21/17 16:37

Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	23	J	38	9.8	ug/Kg	☼	09/26/17 06:56	09/28/17 16:52	1
Isophorone	<190		190	42	ug/Kg	☼	09/26/17 06:56	09/28/17 16:52	1
Naphthalene	17	J	38	5.8	ug/Kg	☼	09/26/17 06:56	09/28/17 16:52	1
Nitrobenzene	<38		38	9.4	ug/Kg	☼	09/26/17 06:56	09/28/17 16:52	1
N-Nitrosodi-n-propylamine	<76		76	46	ug/Kg	☼	09/26/17 06:56	09/28/17 16:52	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	09/26/17 06:56	09/28/17 16:52	1
Pentachlorophenol	<760		760	610	ug/Kg	☼	09/26/17 06:56	09/28/17 16:52	1
Phenanthrene	93		38	5.3	ug/Kg	☼	09/26/17 06:56	09/28/17 16:52	1
Phenol	<190		190	84	ug/Kg	☼	09/26/17 06:56	09/28/17 16:52	1
Pyrene	92		38	7.5	ug/Kg	☼	09/26/17 06:56	09/28/17 16:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	89		25 - 139				09/26/17 06:56	09/28/17 16:52	1
2-Fluorobiphenyl	83		44 - 121				09/26/17 06:56	09/28/17 16:52	1
2-Fluorophenol	107		46 - 133				09/26/17 06:56	09/28/17 16:52	1
Nitrobenzene-d5	78		41 - 120				09/26/17 06:56	09/28/17 16:52	1
Phenol-d5	97		46 - 125				09/26/17 06:56	09/28/17 16:52	1
Terphenyl-d14	98		35 - 160				09/26/17 06:56	09/28/17 16:52	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/26/17 15:02	09/27/17 13:16	1
Barium	0.34	J	0.50	0.050	mg/L		09/26/17 15:02	09/27/17 13:16	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/26/17 15:02	09/27/17 13:16	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/26/17 15:02	09/27/17 13:16	1
Chromium	<0.025		0.025	0.010	mg/L		09/26/17 15:02	09/27/17 13:16	1
Cobalt	0.028		0.025	0.010	mg/L		09/26/17 15:02	09/27/17 13:16	1
Copper	<0.20		0.20	0.010	mg/L		09/26/17 15:02	09/27/17 13:16	1
Iron	<0.40		0.40	0.20	mg/L		09/26/17 15:02	09/27/17 13:16	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/26/17 15:02	09/27/17 13:16	1
Manganese	6.6		0.025	0.010	mg/L		09/26/17 15:02	09/27/17 13:16	1
Nickel	0.032		0.025	0.010	mg/L		09/26/17 15:02	09/27/17 13:16	1
Selenium	<0.050		0.050	0.020	mg/L		09/26/17 15:02	09/27/17 13:16	1
Silver	<0.025		0.025	0.010	mg/L		09/26/17 15:02	09/27/17 13:16	1
Zinc	0.065	J B	0.50	0.020	mg/L		09/26/17 15:02	09/27/17 13:16	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		09/25/17 07:11	09/25/17 21:29	1
Barium	0.078	J	0.50	0.050	mg/L		09/25/17 07:11	09/25/17 21:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/25/17 07:11	09/25/17 21:29	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/25/17 07:11	09/25/17 21:29	1
Chromium	<0.025		0.025	0.010	mg/L		09/25/17 07:11	09/25/17 21:29	1
Cobalt	<0.025		0.025	0.010	mg/L		09/25/17 07:11	09/25/17 21:29	1
Copper	0.018	J	0.025	0.010	mg/L		09/25/17 07:11	09/25/17 21:29	1
Iron	0.73		0.40	0.20	mg/L		09/25/17 07:11	09/25/17 21:29	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/25/17 07:11	09/25/17 21:29	1
Manganese	0.10		0.025	0.010	mg/L		09/25/17 07:11	09/25/17 21:29	1
Nickel	<0.025		0.025	0.010	mg/L		09/25/17 07:11	09/25/17 21:29	1
Selenium	<0.050		0.050	0.020	mg/L		09/25/17 07:11	09/25/17 21:29	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134343-1

Client Sample ID: PS-2(6-13)-092017

Lab Sample ID: 500-134343-4

Date Collected: 09/20/17 08:32

Matrix: Solid

Date Received: 09/21/17 16:37

Percent Solids: 84.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		09/25/17 07:11	09/25/17 21:29	1
Zinc	0.050	J	0.50	0.020	mg/L		09/25/17 07:11	09/25/17 21:29	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.22	mg/Kg	☼	09/22/17 17:15	09/26/17 02:19	1
Arsenic	6.5		0.58	0.20	mg/Kg	☼	09/22/17 17:15	09/26/17 02:19	1
Barium	41		0.58	0.066	mg/Kg	☼	09/22/17 17:15	09/26/17 02:19	1
Beryllium	0.52		0.23	0.054	mg/Kg	☼	09/22/17 17:15	09/26/17 02:19	1
Cadmium	0.32	B	0.12	0.021	mg/Kg	☼	09/22/17 17:15	09/26/17 02:19	1
Calcium	33000	B	12	1.9	mg/Kg	☼	09/22/17 17:15	09/26/17 02:19	1
Chromium	13		0.58	0.28	mg/Kg	☼	09/22/17 17:15	09/26/17 02:19	1
Cobalt	12		0.29	0.075	mg/Kg	☼	09/22/17 17:15	09/26/17 02:19	1
Copper	26		0.58	0.16	mg/Kg	☼	09/22/17 17:15	09/26/17 02:19	1
Iron	18000		12	6.0	mg/Kg	☼	09/22/17 17:15	09/26/17 02:19	1
Lead	45		0.29	0.13	mg/Kg	☼	09/22/17 17:15	09/26/17 02:19	1
Magnesium	21000		5.8	2.9	mg/Kg	☼	09/22/17 17:15	09/26/17 02:19	1
Manganese	430		0.58	0.083	mg/Kg	☼	09/22/17 17:15	09/26/17 02:19	1
Nickel	26		0.58	0.17	mg/Kg	☼	09/22/17 17:15	09/26/17 02:19	1
Potassium	1600		29	10	mg/Kg	☼	09/22/17 17:15	09/26/17 02:19	1
Selenium	<0.58		0.58	0.34	mg/Kg	☼	09/22/17 17:15	09/26/17 02:19	1
Silver	<0.29		0.29	0.074	mg/Kg	☼	09/22/17 17:15	09/26/17 02:19	1
Sodium	370		58	8.5	mg/Kg	☼	09/22/17 17:15	09/26/17 02:19	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	09/22/17 17:15	09/26/17 02:19	1
Vanadium	17		0.29	0.068	mg/Kg	☼	09/22/17 17:15	09/26/17 02:19	1
Zinc	79		1.2	0.50	mg/Kg	☼	09/22/17 17:15	09/26/17 02:19	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		09/26/17 14:10	09/27/17 07:37	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		09/25/17 16:40	09/26/17 10:56	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	31		18	5.9	ug/Kg	☼	09/23/17 13:20	09/25/17 14:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.9		0.20	0.20	SU			09/25/17 17:12	1

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134343-1

Client Sample ID: PS-3(0-6)-092017

Lab Sample ID: 500-134343-5

Date Collected: 09/20/17 08:47

Matrix: Solid

Date Received: 09/21/17 16:37

Percent Solids: 91.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	54		22	9.5	ug/Kg	☼	09/21/17 17:50	09/22/17 17:38	1
Benzene	<2.2		2.2	0.55	ug/Kg	☼	09/21/17 17:50	09/22/17 17:38	1
Bromodichloromethane	<2.2		2.2	0.44	ug/Kg	☼	09/21/17 17:50	09/22/17 17:38	1
Bromoform	<2.2		2.2	0.63	ug/Kg	☼	09/21/17 17:50	09/22/17 17:38	1
Bromomethane	<5.4		5.4	2.1	ug/Kg	☼	09/21/17 17:50	09/22/17 17:38	1
Carbon disulfide	<5.4		5.4	1.1	ug/Kg	☼	09/21/17 17:50	09/22/17 17:38	1
Carbon tetrachloride	<2.2		2.2	0.63	ug/Kg	☼	09/21/17 17:50	09/22/17 17:38	1
Chlorobenzene	<2.2		2.2	0.80	ug/Kg	☼	09/21/17 17:50	09/22/17 17:38	1
Chloroethane	<5.4 *		5.4	1.6	ug/Kg	☼	09/21/17 17:50	09/22/17 17:38	1
Chloroform	<2.2		2.2	0.75	ug/Kg	☼	09/21/17 17:50	09/22/17 17:38	1
Chloromethane	<5.4		5.4	2.2	ug/Kg	☼	09/21/17 17:50	09/22/17 17:38	1
cis-1,2-Dichloroethene	<2.2		2.2	0.61	ug/Kg	☼	09/21/17 17:50	09/22/17 17:38	1
cis-1,3-Dichloropropene	<2.2		2.2	0.66	ug/Kg	☼	09/21/17 17:50	09/22/17 17:38	1
Dibromochloromethane	<2.2		2.2	0.71	ug/Kg	☼	09/21/17 17:50	09/22/17 17:38	1
1,1-Dichloroethane	<2.2		2.2	0.74	ug/Kg	☼	09/21/17 17:50	09/22/17 17:38	1
1,2-Dichloroethane	<5.4		5.4	1.7	ug/Kg	☼	09/21/17 17:50	09/22/17 17:38	1
1,1-Dichloroethene	<2.2		2.2	0.75	ug/Kg	☼	09/21/17 17:50	09/22/17 17:38	1
1,2-Dichloropropane	<2.2		2.2	0.56	ug/Kg	☼	09/21/17 17:50	09/22/17 17:38	1
1,3-Dichloropropane, Total	<2.2		2.2	0.76	ug/Kg	☼	09/21/17 17:50	09/22/17 17:38	1
Ethylbenzene	2.5		2.2	1.0	ug/Kg	☼	09/21/17 17:50	09/22/17 17:38	1
2-Hexanone	<5.4		5.4	1.7	ug/Kg	☼	09/21/17 17:50	09/22/17 17:38	1
Methylene Chloride	<5.4		5.4	2.1	ug/Kg	☼	09/21/17 17:50	09/22/17 17:38	1
Methyl Ethyl Ketone	<5.4		5.4	2.4	ug/Kg	☼	09/21/17 17:50	09/22/17 17:38	1
methyl isobutyl ketone	<5.4		5.4	1.6	ug/Kg	☼	09/21/17 17:50	09/22/17 17:38	1
Methyl tert-butyl ether	<2.2		2.2	0.64	ug/Kg	☼	09/21/17 17:50	09/22/17 17:38	1
Styrene	<2.2		2.2	0.66	ug/Kg	☼	09/21/17 17:50	09/22/17 17:38	1
1,1,2,2-Tetrachloroethane	<2.2		2.2	0.69	ug/Kg	☼	09/21/17 17:50	09/22/17 17:38	1
Tetrachloroethene	<2.2		2.2	0.74	ug/Kg	☼	09/21/17 17:50	09/22/17 17:38	1
Toluene	<2.2		2.2	0.55	ug/Kg	☼	09/21/17 17:50	09/22/17 17:38	1
trans-1,2-Dichloroethene	<2.2		2.2	0.96	ug/Kg	☼	09/21/17 17:50	09/22/17 17:38	1
trans-1,3-Dichloropropene	<2.2		2.2	0.76	ug/Kg	☼	09/21/17 17:50	09/22/17 17:38	1
1,1,1-Trichloroethane	<2.2		2.2	0.73	ug/Kg	☼	09/21/17 17:50	09/22/17 17:38	1
1,1,2-Trichloroethane	<2.2		2.2	0.93	ug/Kg	☼	09/21/17 17:50	09/22/17 17:38	1
Trichloroethene	<2.2		2.2	0.73	ug/Kg	☼	09/21/17 17:50	09/22/17 17:38	1
Vinyl chloride	<2.2		2.2	0.96	ug/Kg	☼	09/21/17 17:50	09/22/17 17:38	1
Xylenes, Total	13		4.3	0.70	ug/Kg	☼	09/21/17 17:50	09/22/17 17:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		75 - 131	09/21/17 17:50	09/22/17 17:38	1
Dibromofluoromethane	107		75 - 126	09/21/17 17:50	09/22/17 17:38	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134	09/21/17 17:50	09/22/17 17:38	1
Toluene-d8 (Surr)	101		75 - 124	09/21/17 17:50	09/22/17 17:38	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	☼	09/26/17 06:56	09/29/17 12:51	1
1,2-Dichlorobenzene	<180		180	43	ug/Kg	☼	09/26/17 06:56	09/29/17 12:51	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	09/26/17 06:56	09/29/17 12:51	1
1,4-Dichlorobenzene	<180		180	46	ug/Kg	☼	09/26/17 06:56	09/29/17 12:51	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	09/26/17 06:56	09/29/17 12:51	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134343-1

Client Sample ID: PS-3(0-6)-092017

Lab Sample ID: 500-134343-5

Date Collected: 09/20/17 08:47

Matrix: Solid

Date Received: 09/21/17 16:37

Percent Solids: 91.0

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	☼	09/26/17 06:56	09/29/17 12:51	1
2,4,6-Trichlorophenol	<360		360	120	ug/Kg	☼	09/26/17 06:56	09/29/17 12:51	1
2,4-Dichlorophenol	<360		360	86	ug/Kg	☼	09/26/17 06:56	09/29/17 12:51	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	09/26/17 06:56	09/29/17 12:51	1
2,4-Dinitrophenol	<730		730	640	ug/Kg	☼	09/26/17 06:56	09/29/17 12:51	1
2,4-Dinitrotoluene	<180		180	57	ug/Kg	☼	09/26/17 06:56	09/29/17 12:51	1
2,6-Dinitrotoluene	<180		180	71	ug/Kg	☼	09/26/17 06:56	09/29/17 12:51	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	09/26/17 06:56	09/29/17 12:51	1
2-Chlorophenol	<180		180	62	ug/Kg	☼	09/26/17 06:56	09/29/17 12:51	1
2-Methylnaphthalene	10	J	73	6.6	ug/Kg	☼	09/26/17 06:56	09/29/17 12:51	1
2-Methylphenol	<180		180	58	ug/Kg	☼	09/26/17 06:56	09/29/17 12:51	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	09/26/17 06:56	09/29/17 12:51	1
2-Nitrophenol	<360		360	85	ug/Kg	☼	09/26/17 06:56	09/29/17 12:51	1
3 & 4 Methylphenol	<180		180	60	ug/Kg	☼	09/26/17 06:56	09/29/17 12:51	1
3,3'-Dichlorobenzidine	<180		180	51	ug/Kg	☼	09/26/17 06:56	09/29/17 12:51	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	09/26/17 06:56	09/29/17 12:51	1
4,6-Dinitro-2-methylphenol	<730		730	290	ug/Kg	☼	09/26/17 06:56	09/29/17 12:51	1
4-Bromophenyl phenyl ether	<180		180	48	ug/Kg	☼	09/26/17 06:56	09/29/17 12:51	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	09/26/17 06:56	09/29/17 12:51	1
4-Chloroaniline	<730		730	170	ug/Kg	☼	09/26/17 06:56	09/29/17 12:51	1
4-Chlorophenyl phenyl ether	<180		180	42	ug/Kg	☼	09/26/17 06:56	09/29/17 12:51	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	09/26/17 06:56	09/29/17 12:51	1
4-Nitrophenol	<730		730	340	ug/Kg	☼	09/26/17 06:56	09/29/17 12:51	1
Acenaphthene	<36		36	6.5	ug/Kg	☼	09/26/17 06:56	09/29/17 12:51	1
Acenaphthylene	<36		36	4.8	ug/Kg	☼	09/26/17 06:56	09/29/17 12:51	1
Anthracene	10	J	36	6.0	ug/Kg	☼	09/26/17 06:56	09/29/17 12:51	1
Benzo[a]anthracene	30	J	36	4.9	ug/Kg	☼	09/26/17 06:56	09/29/17 12:51	1
Benzo[a]pyrene	31	J *	36	7.0	ug/Kg	☼	09/26/17 06:56	09/29/17 12:51	1
Benzo[b]fluoranthene	54	*	36	7.8	ug/Kg	☼	09/26/17 06:56	09/29/17 12:51	1
Benzo[g,h,i]perylene	29	J *	36	12	ug/Kg	☼	09/26/17 06:56	09/29/17 12:51	1
Benzo[k]fluoranthene	17	J *	36	11	ug/Kg	☼	09/26/17 06:56	09/29/17 12:51	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	09/26/17 06:56	09/29/17 12:51	1
Bis(2-chloroethyl)ether	<180		180	54	ug/Kg	☼	09/26/17 06:56	09/29/17 12:51	1
Bis(2-ethylhexyl) phthalate	<180		180	66	ug/Kg	☼	09/26/17 06:56	09/29/17 12:51	1
Butyl benzyl phthalate	<180		180	69	ug/Kg	☼	09/26/17 06:56	09/29/17 12:51	1
Carbazole	<180		180	90	ug/Kg	☼	09/26/17 06:56	09/29/17 12:51	1
Chrysene	38		36	9.9	ug/Kg	☼	09/26/17 06:56	09/29/17 12:51	1
Dibenz(a,h)anthracene	<36	*	36	7.0	ug/Kg	☼	09/26/17 06:56	09/29/17 12:51	1
Dibenzofuran	<180		180	42	ug/Kg	☼	09/26/17 06:56	09/29/17 12:51	1
Diethyl phthalate	<180		180	61	ug/Kg	☼	09/26/17 06:56	09/29/17 12:51	1
Dimethyl phthalate	<180		180	47	ug/Kg	☼	09/26/17 06:56	09/29/17 12:51	1
Di-n-butyl phthalate	<180		180	55	ug/Kg	☼	09/26/17 06:56	09/29/17 12:51	1
Di-n-octyl phthalate	<180		180	59	ug/Kg	☼	09/26/17 06:56	09/29/17 12:51	1
Fluoranthene	59		36	6.7	ug/Kg	☼	09/26/17 06:56	09/29/17 12:51	1
Fluorene	<36		36	5.1	ug/Kg	☼	09/26/17 06:56	09/29/17 12:51	1
Hexachlorobenzene	<73		73	8.4	ug/Kg	☼	09/26/17 06:56	09/29/17 12:51	1
Hexachlorobutadiene	<180		180	57	ug/Kg	☼	09/26/17 06:56	09/29/17 12:51	1
Hexachlorocyclopentadiene	<730		730	210	ug/Kg	☼	09/26/17 06:56	09/29/17 12:51	1
Hexachloroethane	<180		180	55	ug/Kg	☼	09/26/17 06:56	09/29/17 12:51	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134343-1

Client Sample ID: PS-3(0-6)-092017

Lab Sample ID: 500-134343-5

Date Collected: 09/20/17 08:47

Matrix: Solid

Date Received: 09/21/17 16:37

Percent Solids: 91.0

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	<36	*	36	9.4	ug/Kg	☼	09/26/17 06:56	09/29/17 12:51	1
Isophorone	<180		180	41	ug/Kg	☼	09/26/17 06:56	09/29/17 12:51	1
Naphthalene	<36		36	5.6	ug/Kg	☼	09/26/17 06:56	09/29/17 12:51	1
Nitrobenzene	<36		36	9.0	ug/Kg	☼	09/26/17 06:56	09/29/17 12:51	1
N-Nitrosodi-n-propylamine	<73		73	44	ug/Kg	☼	09/26/17 06:56	09/29/17 12:51	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	09/26/17 06:56	09/29/17 12:51	1
Pentachlorophenol	<730		730	580	ug/Kg	☼	09/26/17 06:56	09/29/17 12:51	1
Phenanthrene	55		36	5.0	ug/Kg	☼	09/26/17 06:56	09/29/17 12:51	1
Phenol	<180		180	80	ug/Kg	☼	09/26/17 06:56	09/29/17 12:51	1
Pyrene	61		36	7.2	ug/Kg	☼	09/26/17 06:56	09/29/17 12:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	113		25 - 139	09/26/17 06:56	09/29/17 12:51	1
2-Fluorobiphenyl	104		44 - 121	09/26/17 06:56	09/29/17 12:51	1
2-Fluorophenol	106		46 - 133	09/26/17 06:56	09/29/17 12:51	1
Nitrobenzene-d5	106		41 - 120	09/26/17 06:56	09/29/17 12:51	1
Phenol-d5	83		46 - 125	09/26/17 06:56	09/29/17 12:51	1
Terphenyl-d14	143		35 - 160	09/26/17 06:56	09/29/17 12:51	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/26/17 15:02	09/27/17 13:20	1
Barium	0.20	J	0.50	0.050	mg/L		09/26/17 15:02	09/27/17 13:20	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/26/17 15:02	09/27/17 13:20	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/26/17 15:02	09/27/17 13:20	1
Chromium	<0.025		0.025	0.010	mg/L		09/26/17 15:02	09/27/17 13:20	1
Cobalt	0.019	J	0.025	0.010	mg/L		09/26/17 15:02	09/27/17 13:20	1
Copper	0.13	J B	0.20	0.010	mg/L		09/26/17 15:02	09/27/17 13:20	1
Iron	<0.40		0.40	0.20	mg/L		09/26/17 15:02	09/27/17 13:20	1
Lead	0.011		0.0075	0.0075	mg/L		09/26/17 15:02	09/27/17 13:20	1
Manganese	1.1		0.025	0.010	mg/L		09/26/17 15:02	09/27/17 13:20	1
Nickel	0.025		0.025	0.010	mg/L		09/26/17 15:02	09/27/17 13:20	1
Selenium	<0.050		0.050	0.020	mg/L		09/26/17 15:02	09/27/17 13:20	1
Silver	<0.025		0.025	0.010	mg/L		09/26/17 15:02	09/27/17 13:20	1
Zinc	0.13	J B	0.50	0.020	mg/L		09/26/17 15:02	09/27/17 13:20	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		09/25/17 07:11	09/25/17 21:33	1
Barium	0.076	J	0.50	0.050	mg/L		09/25/17 07:11	09/25/17 21:33	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/25/17 07:11	09/25/17 21:33	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/25/17 07:11	09/25/17 21:33	1
Chromium	<0.025		0.025	0.010	mg/L		09/25/17 07:11	09/25/17 21:33	1
Cobalt	<0.025		0.025	0.010	mg/L		09/25/17 07:11	09/25/17 21:33	1
Copper	0.027		0.025	0.010	mg/L		09/25/17 07:11	09/25/17 21:33	1
Iron	1.4		0.40	0.20	mg/L		09/25/17 07:11	09/25/17 21:33	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/25/17 07:11	09/25/17 21:33	1
Manganese	0.011	J	0.025	0.010	mg/L		09/25/17 07:11	09/25/17 21:33	1
Nickel	<0.025		0.025	0.010	mg/L		09/25/17 07:11	09/25/17 21:33	1
Selenium	<0.050		0.050	0.020	mg/L		09/25/17 07:11	09/25/17 21:33	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134343-1

Client Sample ID: PS-3(0-6)-092017

Lab Sample ID: 500-134343-5

Date Collected: 09/20/17 08:47

Matrix: Solid

Date Received: 09/21/17 16:37

Percent Solids: 91.0

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		09/25/17 07:11	09/25/17 21:33	1
Zinc	0.084	J	0.50	0.020	mg/L		09/25/17 07:11	09/25/17 21:33	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.19	J	1.0	0.19	mg/Kg	☼	09/22/17 17:15	09/26/17 02:23	1
Arsenic	4.0		0.50	0.17	mg/Kg	☼	09/22/17 17:15	09/26/17 02:23	1
Barium	31		0.50	0.057	mg/Kg	☼	09/22/17 17:15	09/26/17 02:23	1
Beryllium	0.35		0.20	0.047	mg/Kg	☼	09/22/17 17:15	09/26/17 02:23	1
Cadmium	0.13	B	0.10	0.018	mg/Kg	☼	09/22/17 17:15	09/26/17 02:23	1
Calcium	150000	B	100	17	mg/Kg	☼	09/22/17 17:15	09/26/17 20:35	10
Chromium	8.1		0.50	0.25	mg/Kg	☼	09/22/17 17:15	09/26/17 02:23	1
Cobalt	5.8		0.25	0.065	mg/Kg	☼	09/22/17 17:15	09/26/17 02:23	1
Copper	11		0.50	0.14	mg/Kg	☼	09/22/17 17:15	09/26/17 02:23	1
Iron	8300		10	5.2	mg/Kg	☼	09/22/17 17:15	09/26/17 02:23	1
Lead	18		0.25	0.12	mg/Kg	☼	09/22/17 17:15	09/26/17 02:23	1
Magnesium	48000		5.0	2.5	mg/Kg	☼	09/22/17 17:15	09/26/17 02:23	1
Manganese	230		0.50	0.072	mg/Kg	☼	09/22/17 17:15	09/26/17 02:23	1
Nickel	14		0.50	0.15	mg/Kg	☼	09/22/17 17:15	09/26/17 02:23	1
Potassium	1200		25	8.8	mg/Kg	☼	09/22/17 17:15	09/26/17 02:23	1
Selenium	<0.50		0.50	0.29	mg/Kg	☼	09/22/17 17:15	09/26/17 02:23	1
Silver	<0.25		0.25	0.064	mg/Kg	☼	09/22/17 17:15	09/26/17 02:23	1
Sodium	110		50	7.4	mg/Kg	☼	09/22/17 17:15	09/26/17 02:23	1
Thallium	<0.50		0.50	0.25	mg/Kg	☼	09/22/17 17:15	09/26/17 02:23	1
Vanadium	13		0.25	0.059	mg/Kg	☼	09/22/17 17:15	09/26/17 02:23	1
Zinc	26		1.0	0.44	mg/Kg	☼	09/22/17 17:15	09/26/17 02:23	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		09/26/17 14:10	09/27/17 07:38	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		09/25/17 16:40	09/26/17 10:58	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	6.1	J	18	5.9	ug/Kg	☼	09/23/17 13:20	09/25/17 14:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.0		0.20	0.20	SU			09/25/17 17:44	1

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134343-1

Client Sample ID: PS-3(6-13)-092017

Lab Sample ID: 500-134343-6

Date Collected: 09/20/17 08:55

Matrix: Solid

Date Received: 09/21/17 16:37

Percent Solids: 91.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<15		15	6.6	ug/Kg	☼	09/21/17 17:50	09/22/17 18:03	1
Benzene	<1.5		1.5	0.38	ug/Kg	☼	09/21/17 17:50	09/22/17 18:03	1
Bromodichloromethane	<1.5		1.5	0.31	ug/Kg	☼	09/21/17 17:50	09/22/17 18:03	1
Bromoform	<1.5		1.5	0.44	ug/Kg	☼	09/21/17 17:50	09/22/17 18:03	1
Bromomethane	<3.8		3.8	1.4	ug/Kg	☼	09/21/17 17:50	09/22/17 18:03	1
Carbon disulfide	<3.8		3.8	0.78	ug/Kg	☼	09/21/17 17:50	09/22/17 18:03	1
Carbon tetrachloride	<1.5		1.5	0.44	ug/Kg	☼	09/21/17 17:50	09/22/17 18:03	1
Chlorobenzene	<1.5		1.5	0.56	ug/Kg	☼	09/21/17 17:50	09/22/17 18:03	1
Chloroethane	<3.8 *		3.8	1.1	ug/Kg	☼	09/21/17 17:50	09/22/17 18:03	1
Chloroform	<1.5		1.5	0.52	ug/Kg	☼	09/21/17 17:50	09/22/17 18:03	1
Chloromethane	<3.8		3.8	1.5	ug/Kg	☼	09/21/17 17:50	09/22/17 18:03	1
cis-1,2-Dichloroethene	<1.5		1.5	0.42	ug/Kg	☼	09/21/17 17:50	09/22/17 18:03	1
cis-1,3-Dichloropropene	<1.5		1.5	0.45	ug/Kg	☼	09/21/17 17:50	09/22/17 18:03	1
Dibromochloromethane	<1.5		1.5	0.49	ug/Kg	☼	09/21/17 17:50	09/22/17 18:03	1
1,1-Dichloroethane	<1.5		1.5	0.52	ug/Kg	☼	09/21/17 17:50	09/22/17 18:03	1
1,2-Dichloroethane	<3.8		3.8	1.2	ug/Kg	☼	09/21/17 17:50	09/22/17 18:03	1
1,1-Dichloroethene	<1.5		1.5	0.52	ug/Kg	☼	09/21/17 17:50	09/22/17 18:03	1
1,2-Dichloropropane	<1.5		1.5	0.39	ug/Kg	☼	09/21/17 17:50	09/22/17 18:03	1
1,3-Dichloropropene, Total	<1.5		1.5	0.53	ug/Kg	☼	09/21/17 17:50	09/22/17 18:03	1
Ethylbenzene	<1.5		1.5	0.72	ug/Kg	☼	09/21/17 17:50	09/22/17 18:03	1
2-Hexanone	<3.8		3.8	1.2	ug/Kg	☼	09/21/17 17:50	09/22/17 18:03	1
Methylene Chloride	<3.8		3.8	1.5	ug/Kg	☼	09/21/17 17:50	09/22/17 18:03	1
Methyl Ethyl Ketone	<3.8		3.8	1.7	ug/Kg	☼	09/21/17 17:50	09/22/17 18:03	1
methyl isobutyl ketone	<3.8		3.8	1.1	ug/Kg	☼	09/21/17 17:50	09/22/17 18:03	1
Methyl tert-butyl ether	<1.5		1.5	0.44	ug/Kg	☼	09/21/17 17:50	09/22/17 18:03	1
Styrene	<1.5		1.5	0.46	ug/Kg	☼	09/21/17 17:50	09/22/17 18:03	1
1,1,2,2-Tetrachloroethane	<1.5		1.5	0.48	ug/Kg	☼	09/21/17 17:50	09/22/17 18:03	1
Tetrachloroethene	<1.5		1.5	0.51	ug/Kg	☼	09/21/17 17:50	09/22/17 18:03	1
Toluene	<1.5		1.5	0.38	ug/Kg	☼	09/21/17 17:50	09/22/17 18:03	1
trans-1,2-Dichloroethene	<1.5		1.5	0.67	ug/Kg	☼	09/21/17 17:50	09/22/17 18:03	1
trans-1,3-Dichloropropene	<1.5		1.5	0.53	ug/Kg	☼	09/21/17 17:50	09/22/17 18:03	1
1,1,1-Trichloroethane	<1.5		1.5	0.51	ug/Kg	☼	09/21/17 17:50	09/22/17 18:03	1
1,1,2-Trichloroethane	<1.5		1.5	0.65	ug/Kg	☼	09/21/17 17:50	09/22/17 18:03	1
Trichloroethene	<1.5		1.5	0.51	ug/Kg	☼	09/21/17 17:50	09/22/17 18:03	1
Vinyl chloride	<1.5		1.5	0.67	ug/Kg	☼	09/21/17 17:50	09/22/17 18:03	1
Xylenes, Total	<3.0		3.0	0.48	ug/Kg	☼	09/21/17 17:50	09/22/17 18:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		75 - 131	09/21/17 17:50	09/22/17 18:03	1
Dibromofluoromethane	99		75 - 126	09/21/17 17:50	09/22/17 18:03	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134	09/21/17 17:50	09/22/17 18:03	1
Toluene-d8 (Surr)	104		75 - 124	09/21/17 17:50	09/22/17 18:03	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	☼	09/26/17 06:56	09/29/17 13:15	1
1,2-Dichlorobenzene	<170		170	42	ug/Kg	☼	09/26/17 06:56	09/29/17 13:15	1
1,3-Dichlorobenzene	<170		170	39	ug/Kg	☼	09/26/17 06:56	09/29/17 13:15	1
1,4-Dichlorobenzene	<170		170	45	ug/Kg	☼	09/26/17 06:56	09/29/17 13:15	1
2,2'-oxybis[1-chloropropane]	<170		170	40	ug/Kg	☼	09/26/17 06:56	09/29/17 13:15	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134343-1

Client Sample ID: PS-3(6-13)-092017

Lab Sample ID: 500-134343-6

Date Collected: 09/20/17 08:55

Matrix: Solid

Date Received: 09/21/17 16:37

Percent Solids: 91.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<350		350	79	ug/Kg	☼	09/26/17 06:56	09/29/17 13:15	1
2,4,6-Trichlorophenol	<350		350	120	ug/Kg	☼	09/26/17 06:56	09/29/17 13:15	1
2,4-Dichlorophenol	<350		350	83	ug/Kg	☼	09/26/17 06:56	09/29/17 13:15	1
2,4-Dimethylphenol	<350		350	130	ug/Kg	☼	09/26/17 06:56	09/29/17 13:15	1
2,4-Dinitrophenol	<700		700	610	ug/Kg	☼	09/26/17 06:56	09/29/17 13:15	1
2,4-Dinitrotoluene	<170		170	55	ug/Kg	☼	09/26/17 06:56	09/29/17 13:15	1
2,6-Dinitrotoluene	<170		170	68	ug/Kg	☼	09/26/17 06:56	09/29/17 13:15	1
2-Chloronaphthalene	<170		170	38	ug/Kg	☼	09/26/17 06:56	09/29/17 13:15	1
2-Chlorophenol	<170		170	59	ug/Kg	☼	09/26/17 06:56	09/29/17 13:15	1
2-Methylnaphthalene	8.6	J	70	6.4	ug/Kg	☼	09/26/17 06:56	09/29/17 13:15	1
2-Methylphenol	<170		170	56	ug/Kg	☼	09/26/17 06:56	09/29/17 13:15	1
2-Nitroaniline	<170		170	47	ug/Kg	☼	09/26/17 06:56	09/29/17 13:15	1
2-Nitrophenol	<350		350	82	ug/Kg	☼	09/26/17 06:56	09/29/17 13:15	1
3 & 4 Methylphenol	<170		170	58	ug/Kg	☼	09/26/17 06:56	09/29/17 13:15	1
3,3'-Dichlorobenzidine	<170		170	49	ug/Kg	☼	09/26/17 06:56	09/29/17 13:15	1
3-Nitroaniline	<350		350	110	ug/Kg	☼	09/26/17 06:56	09/29/17 13:15	1
4,6-Dinitro-2-methylphenol	<700		700	280	ug/Kg	☼	09/26/17 06:56	09/29/17 13:15	1
4-Bromophenyl phenyl ether	<170		170	46	ug/Kg	☼	09/26/17 06:56	09/29/17 13:15	1
4-Chloro-3-methylphenol	<350		350	120	ug/Kg	☼	09/26/17 06:56	09/29/17 13:15	1
4-Chloroaniline	<700		700	160	ug/Kg	☼	09/26/17 06:56	09/29/17 13:15	1
4-Chlorophenyl phenyl ether	<170		170	41	ug/Kg	☼	09/26/17 06:56	09/29/17 13:15	1
4-Nitroaniline	<350		350	150	ug/Kg	☼	09/26/17 06:56	09/29/17 13:15	1
4-Nitrophenol	<700		700	330	ug/Kg	☼	09/26/17 06:56	09/29/17 13:15	1
Acenaphthene	7.6	J	35	6.3	ug/Kg	☼	09/26/17 06:56	09/29/17 13:15	1
Acenaphthylene	170		35	4.6	ug/Kg	☼	09/26/17 06:56	09/29/17 13:15	1
Anthracene	56		35	5.8	ug/Kg	☼	09/26/17 06:56	09/29/17 13:15	1
Benzo[a]anthracene	88		35	4.7	ug/Kg	☼	09/26/17 06:56	09/29/17 13:15	1
Benzo[a]pyrene	250	*	35	6.7	ug/Kg	☼	09/26/17 06:56	09/29/17 13:15	1
Benzo[b]fluoranthene	300	*	35	7.5	ug/Kg	☼	09/26/17 06:56	09/29/17 13:15	1
Benzo[g,h,i]perylene	200	*	35	11	ug/Kg	☼	09/26/17 06:56	09/29/17 13:15	1
Benzo[k]fluoranthene	120	*	35	10	ug/Kg	☼	09/26/17 06:56	09/29/17 13:15	1
Bis(2-chloroethoxy)methane	<170		170	36	ug/Kg	☼	09/26/17 06:56	09/29/17 13:15	1
Bis(2-chloroethyl)ether	<170		170	52	ug/Kg	☼	09/26/17 06:56	09/29/17 13:15	1
Bis(2-ethylhexyl) phthalate	<170		170	64	ug/Kg	☼	09/26/17 06:56	09/29/17 13:15	1
Butyl benzyl phthalate	<170		170	66	ug/Kg	☼	09/26/17 06:56	09/29/17 13:15	1
Carbazole	<170		170	87	ug/Kg	☼	09/26/17 06:56	09/29/17 13:15	1
Chrysene	110		35	9.5	ug/Kg	☼	09/26/17 06:56	09/29/17 13:15	1
Dibenz(a,h)anthracene	48	*	35	6.7	ug/Kg	☼	09/26/17 06:56	09/29/17 13:15	1
Dibenzofuran	<170		170	41	ug/Kg	☼	09/26/17 06:56	09/29/17 13:15	1
Diethyl phthalate	<170		170	59	ug/Kg	☼	09/26/17 06:56	09/29/17 13:15	1
Dimethyl phthalate	<170		170	45	ug/Kg	☼	09/26/17 06:56	09/29/17 13:15	1
Di-n-butyl phthalate	<170		170	53	ug/Kg	☼	09/26/17 06:56	09/29/17 13:15	1
Di-n-octyl phthalate	<170		170	57	ug/Kg	☼	09/26/17 06:56	09/29/17 13:15	1
Fluoranthene	140		35	6.5	ug/Kg	☼	09/26/17 06:56	09/29/17 13:15	1
Fluorene	7.5	J	35	4.9	ug/Kg	☼	09/26/17 06:56	09/29/17 13:15	1
Hexachlorobenzene	<70		70	8.1	ug/Kg	☼	09/26/17 06:56	09/29/17 13:15	1
Hexachlorobutadiene	<170		170	55	ug/Kg	☼	09/26/17 06:56	09/29/17 13:15	1
Hexachlorocyclopentadiene	<700		700	200	ug/Kg	☼	09/26/17 06:56	09/29/17 13:15	1
Hexachloroethane	<170		170	53	ug/Kg	☼	09/26/17 06:56	09/29/17 13:15	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134343-1

Client Sample ID: PS-3(6-13)-092017

Lab Sample ID: 500-134343-6

Date Collected: 09/20/17 08:55

Matrix: Solid

Date Received: 09/21/17 16:37

Percent Solids: 91.5

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	150	*	35	9.0	ug/Kg	☼	09/26/17 06:56	09/29/17 13:15	1
Isophorone	<170		170	39	ug/Kg	☼	09/26/17 06:56	09/29/17 13:15	1
Naphthalene	<35		35	5.4	ug/Kg	☼	09/26/17 06:56	09/29/17 13:15	1
Nitrobenzene	<35		35	8.7	ug/Kg	☼	09/26/17 06:56	09/29/17 13:15	1
N-Nitrosodi-n-propylamine	<70		70	43	ug/Kg	☼	09/26/17 06:56	09/29/17 13:15	1
N-Nitrosodiphenylamine	<170		170	41	ug/Kg	☼	09/26/17 06:56	09/29/17 13:15	1
Pentachlorophenol	<700		700	560	ug/Kg	☼	09/26/17 06:56	09/29/17 13:15	1
Phenanthrene	17	J	35	4.8	ug/Kg	☼	09/26/17 06:56	09/29/17 13:15	1
Phenol	<170		170	77	ug/Kg	☼	09/26/17 06:56	09/29/17 13:15	1
Pyrene	190		35	6.9	ug/Kg	☼	09/26/17 06:56	09/29/17 13:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	107		25 - 139				09/26/17 06:56	09/29/17 13:15	1
2-Fluorobiphenyl	97		44 - 121				09/26/17 06:56	09/29/17 13:15	1
2-Fluorophenol	96		46 - 133				09/26/17 06:56	09/29/17 13:15	1
Nitrobenzene-d5	89		41 - 120				09/26/17 06:56	09/29/17 13:15	1
Phenol-d5	78		46 - 125				09/26/17 06:56	09/29/17 13:15	1
Terphenyl-d14	141		35 - 160				09/26/17 06:56	09/29/17 13:15	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/26/17 15:02	09/27/17 13:24	1
Barium	0.18	J	0.50	0.050	mg/L		09/26/17 15:02	09/27/17 13:24	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/26/17 15:02	09/27/17 13:24	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/26/17 15:02	09/27/17 13:24	1
Chromium	<0.025		0.025	0.010	mg/L		09/26/17 15:02	09/27/17 13:24	1
Cobalt	0.019	J	0.025	0.010	mg/L		09/26/17 15:02	09/27/17 13:24	1
Copper	0.046	J B	0.20	0.010	mg/L		09/26/17 15:02	09/27/17 13:24	1
Iron	<0.40		0.40	0.20	mg/L		09/26/17 15:02	09/27/17 13:24	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/26/17 15:02	09/27/17 13:24	1
Manganese	1.1		0.025	0.010	mg/L		09/26/17 15:02	09/27/17 13:24	1
Nickel	0.029		0.025	0.010	mg/L		09/26/17 15:02	09/27/17 13:24	1
Selenium	<0.050		0.050	0.020	mg/L		09/26/17 15:02	09/27/17 13:24	1
Silver	<0.025		0.025	0.010	mg/L		09/26/17 15:02	09/27/17 13:24	1
Zinc	0.036	J B	0.50	0.020	mg/L		09/26/17 15:02	09/27/17 13:24	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		09/25/17 07:11	09/25/17 21:37	1
Barium	0.068	J	0.50	0.050	mg/L		09/25/17 07:11	09/25/17 21:37	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/25/17 07:11	09/25/17 21:37	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/25/17 07:11	09/25/17 21:37	1
Chromium	<0.025		0.025	0.010	mg/L		09/25/17 07:11	09/25/17 21:37	1
Cobalt	<0.025		0.025	0.010	mg/L		09/25/17 07:11	09/25/17 21:37	1
Copper	0.024	J	0.025	0.010	mg/L		09/25/17 07:11	09/25/17 21:37	1
Iron	0.33	J	0.40	0.20	mg/L		09/25/17 07:11	09/25/17 21:37	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/25/17 07:11	09/25/17 21:37	1
Manganese	<0.025		0.025	0.010	mg/L		09/25/17 07:11	09/25/17 21:37	1
Nickel	<0.025		0.025	0.010	mg/L		09/25/17 07:11	09/25/17 21:37	1
Selenium	<0.050		0.050	0.020	mg/L		09/25/17 07:11	09/25/17 21:37	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134343-1

Client Sample ID: PS-3(6-13)-092017

Lab Sample ID: 500-134343-6

Date Collected: 09/20/17 08:55

Matrix: Solid

Date Received: 09/21/17 16:37

Percent Solids: 91.5

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		09/25/17 07:11	09/25/17 21:37	1
Zinc	0.067	J	0.50	0.020	mg/L		09/25/17 07:11	09/25/17 21:37	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.20	mg/Kg	☼	09/22/17 17:15	09/26/17 02:27	1
Arsenic	2.1		0.53	0.18	mg/Kg	☼	09/22/17 17:15	09/26/17 02:27	1
Barium	9.8		0.53	0.060	mg/Kg	☼	09/22/17 17:15	09/26/17 02:27	1
Beryllium	0.18	J	0.21	0.049	mg/Kg	☼	09/22/17 17:15	09/26/17 02:27	1
Cadmium	0.10	J B	0.11	0.019	mg/Kg	☼	09/22/17 17:15	09/26/17 02:27	1
Calcium	220000	B	110	18	mg/Kg	☼	09/22/17 17:15	09/26/17 20:39	10
Chromium	4.6		0.53	0.26	mg/Kg	☼	09/22/17 17:15	09/26/17 02:27	1
Cobalt	2.4		0.26	0.069	mg/Kg	☼	09/22/17 17:15	09/26/17 02:27	1
Copper	6.1		0.53	0.15	mg/Kg	☼	09/22/17 17:15	09/26/17 02:27	1
Iron	4200		11	5.5	mg/Kg	☼	09/22/17 17:15	09/26/17 02:27	1
Lead	8.3		0.26	0.12	mg/Kg	☼	09/22/17 17:15	09/26/17 02:27	1
Magnesium	120000		53	26	mg/Kg	☼	09/22/17 17:15	09/26/17 20:39	10
Manganese	150		0.53	0.076	mg/Kg	☼	09/22/17 17:15	09/26/17 02:27	1
Nickel	6.8		0.53	0.15	mg/Kg	☼	09/22/17 17:15	09/26/17 02:27	1
Potassium	930		26	9.3	mg/Kg	☼	09/22/17 17:15	09/26/17 02:27	1
Selenium	<0.53		0.53	0.31	mg/Kg	☼	09/22/17 17:15	09/26/17 02:27	1
Silver	<0.26		0.26	0.068	mg/Kg	☼	09/22/17 17:15	09/26/17 02:27	1
Sodium	140		53	7.8	mg/Kg	☼	09/22/17 17:15	09/26/17 02:27	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	09/22/17 17:15	09/26/17 02:27	1
Vanadium	7.0		0.26	0.062	mg/Kg	☼	09/22/17 17:15	09/26/17 02:27	1
Zinc	16		1.1	0.46	mg/Kg	☼	09/22/17 17:15	09/26/17 02:27	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		09/26/17 14:10	09/27/17 07:39	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		09/25/17 16:40	09/26/17 10:59	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	8.7	J	17	5.5	ug/Kg	☼	09/23/17 13:20	09/25/17 14:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.1		0.20	0.20	SU			09/25/17 18:00	1

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134343-1

Client Sample ID: PS-3(6-13)-092017D

Lab Sample ID: 500-134343-7

Date Collected: 09/20/17 08:55

Matrix: Solid

Date Received: 09/21/17 16:37

Percent Solids: 93.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	20		16	7.0	ug/Kg	☼	09/21/17 17:50	09/22/17 18:29	1
Benzene	<1.6		1.6	0.41	ug/Kg	☼	09/21/17 17:50	09/22/17 18:29	1
Bromodichloromethane	<1.6		1.6	0.33	ug/Kg	☼	09/21/17 17:50	09/22/17 18:29	1
Bromoform	<1.6		1.6	0.47	ug/Kg	☼	09/21/17 17:50	09/22/17 18:29	1
Bromomethane	<4.0		4.0	1.5	ug/Kg	☼	09/21/17 17:50	09/22/17 18:29	1
Carbon disulfide	<4.0		4.0	0.84	ug/Kg	☼	09/21/17 17:50	09/22/17 18:29	1
Carbon tetrachloride	<1.6		1.6	0.47	ug/Kg	☼	09/21/17 17:50	09/22/17 18:29	1
Chlorobenzene	<1.6		1.6	0.59	ug/Kg	☼	09/21/17 17:50	09/22/17 18:29	1
Chloroethane	<4.0 *		4.0	1.2	ug/Kg	☼	09/21/17 17:50	09/22/17 18:29	1
Chloroform	<1.6		1.6	0.56	ug/Kg	☼	09/21/17 17:50	09/22/17 18:29	1
Chloromethane	<4.0		4.0	1.6	ug/Kg	☼	09/21/17 17:50	09/22/17 18:29	1
cis-1,2-Dichloroethene	<1.6		1.6	0.45	ug/Kg	☼	09/21/17 17:50	09/22/17 18:29	1
cis-1,3-Dichloropropene	<1.6		1.6	0.49	ug/Kg	☼	09/21/17 17:50	09/22/17 18:29	1
Dibromochloromethane	<1.6		1.6	0.53	ug/Kg	☼	09/21/17 17:50	09/22/17 18:29	1
1,1-Dichloroethane	<1.6		1.6	0.55	ug/Kg	☼	09/21/17 17:50	09/22/17 18:29	1
1,2-Dichloroethane	<4.0		4.0	1.3	ug/Kg	☼	09/21/17 17:50	09/22/17 18:29	1
1,1-Dichloroethene	<1.6		1.6	0.55	ug/Kg	☼	09/21/17 17:50	09/22/17 18:29	1
1,2-Dichloropropane	<1.6		1.6	0.42	ug/Kg	☼	09/21/17 17:50	09/22/17 18:29	1
1,3-Dichloropropane, Total	<1.6		1.6	0.57	ug/Kg	☼	09/21/17 17:50	09/22/17 18:29	1
Ethylbenzene	<1.6		1.6	0.77	ug/Kg	☼	09/21/17 17:50	09/22/17 18:29	1
2-Hexanone	<4.0		4.0	1.3	ug/Kg	☼	09/21/17 17:50	09/22/17 18:29	1
Methylene Chloride	<4.0		4.0	1.6	ug/Kg	☼	09/21/17 17:50	09/22/17 18:29	1
Methyl Ethyl Ketone	<4.0		4.0	1.8	ug/Kg	☼	09/21/17 17:50	09/22/17 18:29	1
methyl isobutyl ketone	<4.0		4.0	1.2	ug/Kg	☼	09/21/17 17:50	09/22/17 18:29	1
Methyl tert-butyl ether	<1.6		1.6	0.47	ug/Kg	☼	09/21/17 17:50	09/22/17 18:29	1
Styrene	<1.6		1.6	0.49	ug/Kg	☼	09/21/17 17:50	09/22/17 18:29	1
1,1,2,2-Tetrachloroethane	<1.6		1.6	0.51	ug/Kg	☼	09/21/17 17:50	09/22/17 18:29	1
Tetrachloroethene	<1.6		1.6	0.55	ug/Kg	☼	09/21/17 17:50	09/22/17 18:29	1
Toluene	<1.6		1.6	0.41	ug/Kg	☼	09/21/17 17:50	09/22/17 18:29	1
trans-1,2-Dichloroethene	<1.6		1.6	0.71	ug/Kg	☼	09/21/17 17:50	09/22/17 18:29	1
trans-1,3-Dichloropropene	<1.6		1.6	0.57	ug/Kg	☼	09/21/17 17:50	09/22/17 18:29	1
1,1,1-Trichloroethane	<1.6		1.6	0.54	ug/Kg	☼	09/21/17 17:50	09/22/17 18:29	1
1,1,2-Trichloroethane	<1.6		1.6	0.69	ug/Kg	☼	09/21/17 17:50	09/22/17 18:29	1
Trichloroethene	<1.6		1.6	0.54	ug/Kg	☼	09/21/17 17:50	09/22/17 18:29	1
Vinyl chloride	<1.6		1.6	0.71	ug/Kg	☼	09/21/17 17:50	09/22/17 18:29	1
Xylenes, Total	<3.2		3.2	0.52	ug/Kg	☼	09/21/17 17:50	09/22/17 18:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		75 - 131	09/21/17 17:50	09/22/17 18:29	1
Dibromofluoromethane	108		75 - 126	09/21/17 17:50	09/22/17 18:29	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134	09/21/17 17:50	09/22/17 18:29	1
Toluene-d8 (Surr)	97		75 - 124	09/21/17 17:50	09/22/17 18:29	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	☼	09/26/17 06:56	09/29/17 13:39	1
1,2-Dichlorobenzene	<170		170	41	ug/Kg	☼	09/26/17 06:56	09/29/17 13:39	1
1,3-Dichlorobenzene	<170		170	39	ug/Kg	☼	09/26/17 06:56	09/29/17 13:39	1
1,4-Dichlorobenzene	<170		170	44	ug/Kg	☼	09/26/17 06:56	09/29/17 13:39	1
2,2'-oxybis[1-chloropropane]	<170		170	40	ug/Kg	☼	09/26/17 06:56	09/29/17 13:39	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134343-1

Client Sample ID: PS-3(6-13)-092017D

Lab Sample ID: 500-134343-7

Date Collected: 09/20/17 08:55

Matrix: Solid

Date Received: 09/21/17 16:37

Percent Solids: 93.0

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	78	ug/Kg	☼	09/26/17 06:56	09/29/17 13:39	1
2,4,6-Trichlorophenol	<340		340	120	ug/Kg	☼	09/26/17 06:56	09/29/17 13:39	1
2,4-Dichlorophenol	<340		340	81	ug/Kg	☼	09/26/17 06:56	09/29/17 13:39	1
2,4-Dimethylphenol	<340		340	130	ug/Kg	☼	09/26/17 06:56	09/29/17 13:39	1
2,4-Dinitrophenol	<690		690	600	ug/Kg	☼	09/26/17 06:56	09/29/17 13:39	1
2,4-Dinitrotoluene	<170		170	55	ug/Kg	☼	09/26/17 06:56	09/29/17 13:39	1
2,6-Dinitrotoluene	<170		170	67	ug/Kg	☼	09/26/17 06:56	09/29/17 13:39	1
2-Chloronaphthalene	<170		170	38	ug/Kg	☼	09/26/17 06:56	09/29/17 13:39	1
2-Chlorophenol	<170		170	59	ug/Kg	☼	09/26/17 06:56	09/29/17 13:39	1
2-Methylnaphthalene	<69		69	6.3	ug/Kg	☼	09/26/17 06:56	09/29/17 13:39	1
2-Methylphenol	<170		170	55	ug/Kg	☼	09/26/17 06:56	09/29/17 13:39	1
2-Nitroaniline	<170		170	46	ug/Kg	☼	09/26/17 06:56	09/29/17 13:39	1
2-Nitrophenol	<340		340	81	ug/Kg	☼	09/26/17 06:56	09/29/17 13:39	1
3 & 4 Methylphenol	<170		170	57	ug/Kg	☼	09/26/17 06:56	09/29/17 13:39	1
3,3'-Dichlorobenzidine	<170		170	48	ug/Kg	☼	09/26/17 06:56	09/29/17 13:39	1
3-Nitroaniline	<340		340	110	ug/Kg	☼	09/26/17 06:56	09/29/17 13:39	1
4,6-Dinitro-2-methylphenol	<690		690	280	ug/Kg	☼	09/26/17 06:56	09/29/17 13:39	1
4-Bromophenyl phenyl ether	<170		170	45	ug/Kg	☼	09/26/17 06:56	09/29/17 13:39	1
4-Chloro-3-methylphenol	<340		340	120	ug/Kg	☼	09/26/17 06:56	09/29/17 13:39	1
4-Chloroaniline	<690		690	160	ug/Kg	☼	09/26/17 06:56	09/29/17 13:39	1
4-Chlorophenyl phenyl ether	<170		170	40	ug/Kg	☼	09/26/17 06:56	09/29/17 13:39	1
4-Nitroaniline	<340		340	140	ug/Kg	☼	09/26/17 06:56	09/29/17 13:39	1
4-Nitrophenol	<690		690	330	ug/Kg	☼	09/26/17 06:56	09/29/17 13:39	1
Acenaphthene	7.6 J		34	6.2	ug/Kg	☼	09/26/17 06:56	09/29/17 13:39	1
Acenaphthylene	170		34	4.5	ug/Kg	☼	09/26/17 06:56	09/29/17 13:39	1
Anthracene	56		34	5.7	ug/Kg	☼	09/26/17 06:56	09/29/17 13:39	1
Benzo[a]anthracene	82		34	4.6	ug/Kg	☼	09/26/17 06:56	09/29/17 13:39	1
Benzo[a]pyrene	240 *		34	6.6	ug/Kg	☼	09/26/17 06:56	09/29/17 13:39	1
Benzo[b]fluoranthene	270 *		34	7.4	ug/Kg	☼	09/26/17 06:56	09/29/17 13:39	1
Benzo[g,h,i]perylene	220 *		34	11	ug/Kg	☼	09/26/17 06:56	09/29/17 13:39	1
Benzo[k]fluoranthene	130 *		34	10	ug/Kg	☼	09/26/17 06:56	09/29/17 13:39	1
Bis(2-chloroethoxy)methane	<170		170	35	ug/Kg	☼	09/26/17 06:56	09/29/17 13:39	1
Bis(2-chloroethyl)ether	<170		170	51	ug/Kg	☼	09/26/17 06:56	09/29/17 13:39	1
Bis(2-ethylhexyl) phthalate	<170		170	63	ug/Kg	☼	09/26/17 06:56	09/29/17 13:39	1
Butyl benzyl phthalate	<170		170	65	ug/Kg	☼	09/26/17 06:56	09/29/17 13:39	1
Carbazole	<170		170	86	ug/Kg	☼	09/26/17 06:56	09/29/17 13:39	1
Chrysene	100		34	9.4	ug/Kg	☼	09/26/17 06:56	09/29/17 13:39	1
Dibenz(a,h)anthracene	42 *		34	6.6	ug/Kg	☼	09/26/17 06:56	09/29/17 13:39	1
Dibenzofuran	<170		170	40	ug/Kg	☼	09/26/17 06:56	09/29/17 13:39	1
Diethyl phthalate	<170		170	58	ug/Kg	☼	09/26/17 06:56	09/29/17 13:39	1
Dimethyl phthalate	<170		170	45	ug/Kg	☼	09/26/17 06:56	09/29/17 13:39	1
Di-n-butyl phthalate	<170		170	52	ug/Kg	☼	09/26/17 06:56	09/29/17 13:39	1
Di-n-octyl phthalate	<170		170	56	ug/Kg	☼	09/26/17 06:56	09/29/17 13:39	1
Fluoranthene	120		34	6.4	ug/Kg	☼	09/26/17 06:56	09/29/17 13:39	1
Fluorene	7.2 J		34	4.8	ug/Kg	☼	09/26/17 06:56	09/29/17 13:39	1
Hexachlorobenzene	<69		69	7.9	ug/Kg	☼	09/26/17 06:56	09/29/17 13:39	1
Hexachlorobutadiene	<170		170	54	ug/Kg	☼	09/26/17 06:56	09/29/17 13:39	1
Hexachlorocyclopentadiene	<690		690	200	ug/Kg	☼	09/26/17 06:56	09/29/17 13:39	1
Hexachloroethane	<170		170	52	ug/Kg	☼	09/26/17 06:56	09/29/17 13:39	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134343-1

Client Sample ID: PS-3(6-13)-092017D

Lab Sample ID: 500-134343-7

Date Collected: 09/20/17 08:55

Matrix: Solid

Date Received: 09/21/17 16:37

Percent Solids: 93.0

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	160	*	34	8.9	ug/Kg	☼	09/26/17 06:56	09/29/17 13:39	1
Isophorone	<170		170	39	ug/Kg	☼	09/26/17 06:56	09/29/17 13:39	1
Naphthalene	<34		34	5.3	ug/Kg	☼	09/26/17 06:56	09/29/17 13:39	1
Nitrobenzene	<34		34	8.6	ug/Kg	☼	09/26/17 06:56	09/29/17 13:39	1
N-Nitrosodi-n-propylamine	<69		69	42	ug/Kg	☼	09/26/17 06:56	09/29/17 13:39	1
N-Nitrosodiphenylamine	<170		170	40	ug/Kg	☼	09/26/17 06:56	09/29/17 13:39	1
Pentachlorophenol	<690		690	550	ug/Kg	☼	09/26/17 06:56	09/29/17 13:39	1
Phenanthrene	19	J	34	4.8	ug/Kg	☼	09/26/17 06:56	09/29/17 13:39	1
Phenol	<170		170	76	ug/Kg	☼	09/26/17 06:56	09/29/17 13:39	1
Pyrene	190		34	6.8	ug/Kg	☼	09/26/17 06:56	09/29/17 13:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	112		25 - 139				09/26/17 06:56	09/29/17 13:39	1
2-Fluorobiphenyl	102		44 - 121				09/26/17 06:56	09/29/17 13:39	1
2-Fluorophenol	101		46 - 133				09/26/17 06:56	09/29/17 13:39	1
Nitrobenzene-d5	100		41 - 120				09/26/17 06:56	09/29/17 13:39	1
Phenol-d5	81		46 - 125				09/26/17 06:56	09/29/17 13:39	1
Terphenyl-d14	182	X	35 - 160				09/26/17 06:56	09/29/17 13:39	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		09/26/17 15:02	09/27/17 13:28	1
Barium	0.16	J	0.50	0.050	mg/L		09/26/17 15:02	09/27/17 13:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/26/17 15:02	09/27/17 13:28	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/26/17 15:02	09/27/17 13:28	1
Chromium	<0.025		0.025	0.010	mg/L		09/26/17 15:02	09/27/17 13:28	1
Cobalt	0.018	J	0.025	0.010	mg/L		09/26/17 15:02	09/27/17 13:28	1
Copper	0.017	J B	0.20	0.010	mg/L		09/26/17 15:02	09/27/17 13:28	1
Iron	<0.40		0.40	0.20	mg/L		09/26/17 15:02	09/27/17 13:28	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/26/17 15:02	09/27/17 13:28	1
Manganese	1.0		0.025	0.010	mg/L		09/26/17 15:02	09/27/17 13:28	1
Nickel	0.026		0.025	0.010	mg/L		09/26/17 15:02	09/27/17 13:28	1
Selenium	<0.050		0.050	0.020	mg/L		09/26/17 15:02	09/27/17 13:28	1
Silver	<0.025		0.025	0.010	mg/L		09/26/17 15:02	09/27/17 13:28	1
Zinc	0.032	J B	0.50	0.020	mg/L		09/26/17 15:02	09/27/17 13:28	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		09/25/17 07:11	09/25/17 21:50	1
Barium	0.069	J	0.50	0.050	mg/L		09/25/17 07:11	09/25/17 21:50	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/25/17 07:11	09/25/17 21:50	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/25/17 07:11	09/25/17 21:50	1
Chromium	<0.025		0.025	0.010	mg/L		09/25/17 07:11	09/26/17 20:10	1
Cobalt	<0.025		0.025	0.010	mg/L		09/25/17 07:11	09/25/17 21:50	1
Copper	0.032		0.025	0.010	mg/L		09/25/17 07:11	09/25/17 21:50	1
Iron	0.31	J	0.40	0.20	mg/L		09/25/17 07:11	09/25/17 21:50	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/25/17 07:11	09/25/17 21:50	1
Manganese	<0.025		0.025	0.010	mg/L		09/25/17 07:11	09/25/17 21:50	1
Nickel	<0.025		0.025	0.010	mg/L		09/25/17 07:11	09/25/17 21:50	1
Selenium	<0.050		0.050	0.020	mg/L		09/25/17 07:11	09/25/17 21:50	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134343-1

Client Sample ID: PS-3(6-13)-092017D

Lab Sample ID: 500-134343-7

Date Collected: 09/20/17 08:55

Matrix: Solid

Date Received: 09/21/17 16:37

Percent Solids: 93.0

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		09/25/17 07:11	09/25/17 21:50	1
Zinc	0.057	J	0.50	0.020	mg/L		09/25/17 07:11	09/25/17 21:50	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.20	mg/Kg	☼	09/22/17 17:15	09/26/17 02:32	1
Arsenic	1.7		0.52	0.18	mg/Kg	☼	09/22/17 17:15	09/26/17 02:32	1
Barium	6.5		0.52	0.060	mg/Kg	☼	09/22/17 17:15	09/26/17 02:32	1
Beryllium	0.16	J	0.21	0.049	mg/Kg	☼	09/22/17 17:15	09/26/17 02:32	1
Cadmium	0.071	J B	0.10	0.019	mg/Kg	☼	09/22/17 17:15	09/26/17 02:32	1
Calcium	210000	B	100	18	mg/Kg	☼	09/22/17 17:15	09/26/17 20:43	10
Chromium	3.8		0.52	0.26	mg/Kg	☼	09/22/17 17:15	09/26/17 02:32	1
Cobalt	1.7		0.26	0.069	mg/Kg	☼	09/22/17 17:15	09/26/17 02:32	1
Copper	4.0		0.52	0.15	mg/Kg	☼	09/22/17 17:15	09/26/17 02:32	1
Iron	3100		10	5.5	mg/Kg	☼	09/22/17 17:15	09/26/17 02:32	1
Lead	5.4		0.26	0.12	mg/Kg	☼	09/22/17 17:15	09/26/17 02:32	1
Magnesium	120000		52	26	mg/Kg	☼	09/22/17 17:15	09/26/17 20:43	10
Manganese	120		0.52	0.076	mg/Kg	☼	09/22/17 17:15	09/26/17 02:32	1
Nickel	4.4		0.52	0.15	mg/Kg	☼	09/22/17 17:15	09/26/17 02:32	1
Potassium	780		26	9.3	mg/Kg	☼	09/22/17 17:15	09/26/17 02:32	1
Selenium	<0.52		0.52	0.31	mg/Kg	☼	09/22/17 17:15	09/26/17 02:32	1
Silver	<0.26		0.26	0.068	mg/Kg	☼	09/22/17 17:15	09/26/17 02:32	1
Sodium	150		52	7.8	mg/Kg	☼	09/22/17 17:15	09/26/17 02:32	1
Thallium	<0.52		0.52	0.26	mg/Kg	☼	09/22/17 17:15	09/26/17 02:32	1
Vanadium	5.2		0.26	0.062	mg/Kg	☼	09/22/17 17:15	09/26/17 02:32	1
Zinc	8.4		1.0	0.46	mg/Kg	☼	09/22/17 17:15	09/26/17 02:32	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		09/26/17 14:10	09/27/17 07:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		09/25/17 16:40	09/26/17 11:01	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	7.6	J	16	5.2	ug/Kg	☼	09/23/17 13:20	09/25/17 14:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.1		0.20	0.20	SU			09/25/17 18:15	1

Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134343-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
*	ISTD response or retention time outside acceptable limits

GC/MS Semi VOA

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

GC Semi VOA

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

Metals

Qualifier	Qualifier Description
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.
B	Compound was found in the blank and sample.
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

General Chemistry

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)

TestAmerica Chicago

Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134343-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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)

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Accreditation/Certification Summary

Client: Weston Solutions, Inc.

TestAmerica Job ID: 500-134343-1

Project/Site: IDOT - Eisenhower Expressway - WO 062

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Illinois	NELAP	5	100201	04-30-19

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

Analysis Method	Prep Method	Matrix	Analyte
8260B	5035	Solid	1,3-Dichloropropene, Total
9045D		Solid	pH
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 604
Phone: 708.534.5200 Fax: 708.534.



500-134343 COC

Report To (optional)
Contact: Babu
Company: Weston
Address: 300 Plaza Cr. Ste 202
Address: Mundelein, IL 60060
Phone: 815-224-8047
Fax: 7
E-Mail:

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

Chain of Custody Record

Lab Job #: 500-134343

Chain of Custody Number: _____

Page 1 of 5

Temperature °C of Cooler: 20.33, 34.46, 21.2

Client		Client Project #		Preservative		Parameter												Preservative Key
Project Name		Lab Project #		Matrix														
Project Location/State		Lab PM																Comments
Sampler																		
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOC	SIOC	Total Metals	TEMP/SELP Metals	pH	PCBS	Cyanide	Phosphorus	Chloride			
1		PS-1(0-6)-092017	9/20/17	0805	6	S	X	X	X	X	X							
2		PS-1(6-13)-092017		0810	6	S	X	X	X	X	X							
3		PS-2(0-6)-092017		0822	6	S	X	X	X	X	X							
4		PS-2(6-13)-092017		0832	6	S	X	X	X	X	X							
5		PS-3(0-6)-092017		0847	6	S	X	X	X	X	X							
6		PS-3(6-13)-092017		0855	6	S	X	X	X	X	X							
7		PS-3(6-13)-092017D		0855	6	S	X	X	X	X	X							
8		DP-1(0-1)-092017		1222	6	SE	X	X	X	X	X	X	X	X	X	X		
9		FH-8(0-5)-092017		1303	6	S	X	X	X	X	X							
10		FH-8(5-10)-092017		1310	6	S	X	X	X	X	X							

- Preservative Key
- HCL, Cool to 4°
 - H2SO4, Cool to 4°
 - HNO3, Cool to 4°
 - NaOH, Cool to 4°
 - NaOH/Zn, Cool to 4°
 - NaHSO4
 - Cool to 4°
 - None
 - Other

Turnaround Time Required (Business Days)

___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days 10 Days ___ 15 Days ___ Other

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: <u>Kathy Weston</u> Company: <u>Weston</u> Date: <u>9/20/17</u> Time: <u>1529</u>	Received By: <u>P. Neal</u> Company: <u>TA</u> Date: <u>9/20/17</u> Time: <u>1527</u>
Relinquished By: <u>P. Neal</u> Company: <u>TA</u> Date: <u>9/20/17</u> Time: <u>1637</u>	Received By: <u>Shawn Scott</u> Company: <u>TA-CST</u> Date: <u>9/21/17</u> Time: <u>0730</u>
Relinquished By: _____ Company: _____ Date: _____ Time: _____	Received By: _____ Company: _____ Date: _____ Time: _____

Lab Courier: TA
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

Report To (optional)
Contact: Babu
Company: Weston Solutions
Address:
Address:
Phone:
Fax:
E-Mail:

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

Chain of Custody Record

Lab Job #: 500-134343

Chain of Custody Number: _____

Page 2 of 5

Temperature °C of Cooler: 2.0, 3.3, 3.4, 4.6, 2.2

Client		Client Project #		Preservative		Parameter		Matrix		Comments		
Weston Solutions												
Project Name		Lab Project #		Date		Time		# of Containers		Matrix		
IDOT 062- Eisenhower Expressway												
Project Location/State		Lab PM		Date		Time		# of Containers		Matrix		
Forest Park, IL		R. Wright										
Sampler		Lab PM		Date		Time		# of Containers		Matrix		
K. Fran		R. Wright										
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOC	SVOC	Total Metals	TOC/ISOP	Metals	pH
11		FH-8(10-15)-092017	9/20/17	1315	6	S	X	X	X	X	X	X
12		FH-8(15-20)-092017		1332	6	S	X	X	X	X	X	X
13		FH-8(20-25)-092017		1346	6	S	X	X	X	X	X	X
14		FH-8(25-30)-092017		1358	6	S	X	X	X	X	X	X
15		FH-8(30-35)-092017		1415	6	S	X	X	X	X	X	X
16		FH-9(0-5)-092017		1432	6	S	X	X	X	X	X	X
17		FH-9(5-10)-092017		1444	4	S	X	X	X	X	X	X
18		FH-9(5-10)-092017		1444	6	S	X	X	X	X	X	X
19		FH-13(46-54)-092017		1435	6	S	X	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) _____
 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: <u>[Signature]</u> Company: <u>Weston</u> Date: <u>9/20/17</u> Time: <u>1527</u>	Received By: <u>P. Neal</u> Company: <u>TA</u> Date: <u>9/20/17</u> Time: <u>1527</u>	Lab Courier: <u>TA</u>
Relinquished By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>9/20/17</u> Time: <u>1637</u>	Received By: <u>[Signature]</u> Company: <u>TA-CHE</u> Date: <u>9/21/17</u> Time: <u>0730</u>	Shipped: _____
Relinquished By: _____ Company: _____ Date: _____ Time: _____	Received By: _____ Company: _____ Date: _____ Time: _____	Hand Delivered: _____

<p>Matrix Key</p> <ul style="list-style-type: none"> 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

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

Uncontaminated Soil Certification

by Licensed Professional Engineer or Licensed Professional Geologist

for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

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

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

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

I. Source Location Information

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

Project Name: FAI (I-290)-Des Plaines River Pump Station #4 Office Phone Number, if available: _____

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

8107 W. Eisenhower Expwy. (ISGS Site No. 2215V-3 - INSIDE EARTH RETENTION SYSTEM BELOW 595 FT ASL)

City: Forest Park State: IL Zip Code: _____

County: Cook Township: _____

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

Latitude: 41.87171 Longitude: - 87.82647

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

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

Estimated Volume of debris (cu. Yd.): 1900

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: _____

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@illinois.gov

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: _____

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@illinois.gov

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

Uncontaminated Soil Certification

III. Basis for Certification and Attachments

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

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

LOCATION PS-4 WAS SAMPLED ADJACENT TO ISGS SITE No. 2215V-3 - BELOW 595 FT ASL. 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: 500-134344-1.

ALSO SEE FIGURE 4-4 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

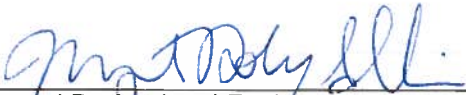
IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Margaret Doheny-Skubic, 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.

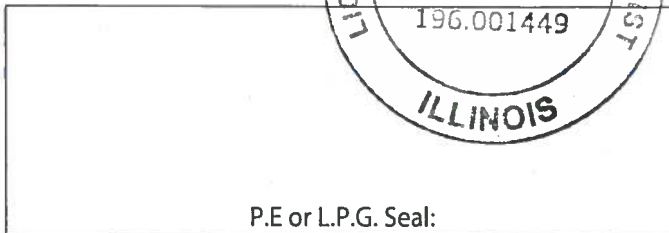
Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Weston Solutions, Inc.
Street Address: 300 Circle Plaza; Suite 202
City: Mundelein State: IL Zip Code: 60060
Phone: (224) 864-7234

Margaret Doheny-Skubic, P.G.
Printed Name:


Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Apr 22, 2019
Date:



Summary Table of ISGS Site No. 2215V-3
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results - INSIDE EARTH RETENTION SYSTEM - BELOW 595 FT ASL
Illinois Department of Transportation
FAI (I-290): Eisenhower Expressway - Des Plaines River Pump Station #4
Forest Park, Cook County, Illinois

Field Sample ID	PS-4(38-46)-092017	PS-4(46-54)-092017	Soil Reference Concentrations ^A
Sample Date	9/20/2017	9/20/2017	
Location ID	PS-4	PS-4	
Depth	38 - 46	46 - 54	
ISGS Site No.	2215V-4	2215V-4	
Parameter			
Laboratory pH (s.u.)	7.9	7.6	<6.25,>9.0
VOCs (ug/kg)			
Acetone	19	18	25000
SVOCs (ug/kg)			
2-Methylnaphthalene	190	33 J	---
Benzo(g,h,i)perylene	ND	16 J	---
Chrysene	ND	53	88000
Fluoranthene	ND	25 J	3100000
Phenanthrene	160	54	---
Pyrene	ND	47	2300000
Total Metals (mg/kg)			
Antimony, Total	ND	0.28 J	5
Arsenic, Total	10	13	11.3 / 13
Barium, Total	28	15	1500
Beryllium, Total	0.61	0.46	22
Cadmium, Total	ND	0.26 B	5.2
Calcium, Total	73000 B	79000 J+	---
Chromium, Total	13	9.4	21
Cobalt, Total	14	16	20
Copper, Total	33	39	2900
Iron, Total	19000 B	20000 J	15000 / 15900
Lead, Total	16	20 J-	107
Magnesium, Total	23000	29000 J	325000
Manganese, Total	320	390 J-	630 / 636
Mercury, Total	0.024	0.037	0.89
Nickel, Total	32	32	100
Potassium, Total	2600	1500 J+	---
Selenium, Total	0.69	0.64	1.3
Sodium, Total	180	150	---
Thallium, Total	0.59	0.85	2.6
Vanadium, Total	16	13	550
Zinc, Total	78	59 J	5100
TCLP Metals (mg/l)			
Barium, TCLP	0.48 J	0.29 J	2
Cadmium, TCLP	0.0025 J	0.0024 J	0.005
Cobalt, TCLP	0.046	0.045	1
Manganese, TCLP	2.7	2.9	0.15
Nickel, TCLP	0.094	0.086	0.1
SPLP Metals (mg/l)			
Barium, SPLP	0.14 J	ND	2
Chromium, SPLP	0.026	ND	0.1
Cobalt, SPLP	0.013 J	ND	1
Copper, SPLP	0.05	0.021 J	0.65
Iron, SPLP	14	0.79	5
Lead, SPLP	0.0096	ND	0.0075
Manganese, SPLP	0.26	0.06	0.15
Nickel, SPLP	0.028	ND	0.1
Zinc, SPLP	0.094 J	0.15 J	5

Summary Table of ISGS Site No. 2215V-3
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results - INSIDE EARTH RETENTION SYSTEM - BELOW 595 FT ASL
Illinois Department of Transportation
FAI (I-290): Eisenhower Expressway - Des Plaines River Pump Station #4
Forest Park, Cook 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.


ND - Constituent not detected above the reporting limit.

B - Constituent detected in the laboratory blank and investigative samples.

J - Estimated concentration.

J+ - Estimated concentration, biased high.

J- - Estimated concentration, biased low.

 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: 500-134344-1

Client Project/Site: IDOT - Eisenhower Expressway - WO 062

For:

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

Attn: Mr. S. Babusukumar



Authorized for release by:
9/29/2017 10:03:17 AM

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

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134344-1

Client Sample ID: PS-4(38-46)-092017

Lab Sample ID: 500-134344-18

Date Collected: 09/20/17 10:00

Matrix: Solid

Date Received: 09/20/17 16:37

Percent Solids: 87.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	19		16	6.9	ug/Kg	☼	09/21/17 17:50	09/25/17 17:29	1
Benzene	<1.6		1.6	0.40	ug/Kg	☼	09/21/17 17:50	09/25/17 17:29	1
Bromodichloromethane	<1.6		1.6	0.32	ug/Kg	☼	09/21/17 17:50	09/25/17 17:29	1
Bromoform	<1.6		1.6	0.46	ug/Kg	☼	09/21/17 17:50	09/25/17 17:29	1
Bromomethane	<4.0		4.0	1.5	ug/Kg	☼	09/21/17 17:50	09/25/17 17:29	1
Carbon disulfide	<4.0		4.0	0.82	ug/Kg	☼	09/21/17 17:50	09/25/17 17:29	1
Carbon tetrachloride	<1.6		1.6	0.46	ug/Kg	☼	09/21/17 17:50	09/25/17 17:29	1
Chlorobenzene	<1.6		1.6	0.58	ug/Kg	☼	09/21/17 17:50	09/25/17 17:29	1
Chloroethane	<4.0		4.0	1.2	ug/Kg	☼	09/21/17 17:50	09/25/17 17:29	1
Chloroform	<1.6		1.6	0.55	ug/Kg	☼	09/21/17 17:50	09/25/17 17:29	1
Chloromethane	<4.0		4.0	1.6	ug/Kg	☼	09/21/17 17:50	09/25/17 17:29	1
cis-1,2-Dichloroethene	<1.6		1.6	0.44	ug/Kg	☼	09/21/17 17:50	09/25/17 17:29	1
cis-1,3-Dichloropropene	<1.6		1.6	0.48	ug/Kg	☼	09/21/17 17:50	09/25/17 17:29	1
Dibromochloromethane	<1.6		1.6	0.52	ug/Kg	☼	09/21/17 17:50	09/25/17 17:29	1
1,1-Dichloroethane	<1.6		1.6	0.54	ug/Kg	☼	09/21/17 17:50	09/25/17 17:29	1
1,2-Dichloroethane	<4.0		4.0	1.2	ug/Kg	☼	09/21/17 17:50	09/25/17 17:29	1
1,1-Dichloroethene	<1.6		1.6	0.54	ug/Kg	☼	09/21/17 17:50	09/25/17 17:29	1
1,2-Dichloropropane	<1.6		1.6	0.41	ug/Kg	☼	09/21/17 17:50	09/25/17 17:29	1
1,3-Dichloropropane, Total	<1.6		1.6	0.56	ug/Kg	☼	09/21/17 17:50	09/25/17 17:29	1
Ethylbenzene	<1.6		1.6	0.76	ug/Kg	☼	09/21/17 17:50	09/25/17 17:29	1
2-Hexanone	<4.0		4.0	1.2	ug/Kg	☼	09/21/17 17:50	09/25/17 17:29	1
Methylene Chloride	<4.0		4.0	1.6	ug/Kg	☼	09/21/17 17:50	09/25/17 17:29	1
Methyl Ethyl Ketone	<4.0		4.0	1.8	ug/Kg	☼	09/21/17 17:50	09/25/17 17:29	1
methyl isobutyl ketone	<4.0		4.0	1.2	ug/Kg	☼	09/21/17 17:50	09/25/17 17:29	1
Methyl tert-butyl ether	<1.6		1.6	0.46	ug/Kg	☼	09/21/17 17:50	09/25/17 17:29	1
Styrene	<1.6		1.6	0.48	ug/Kg	☼	09/21/17 17:50	09/25/17 17:29	1
1,1,2,2-Tetrachloroethane	<1.6 *		1.6	0.51	ug/Kg	☼	09/21/17 17:50	09/25/17 17:29	1
Tetrachloroethene	<1.6		1.6	0.54	ug/Kg	☼	09/21/17 17:50	09/25/17 17:29	1
Toluene	<1.6		1.6	0.40	ug/Kg	☼	09/21/17 17:50	09/25/17 17:29	1
trans-1,2-Dichloroethene	<1.6		1.6	0.70	ug/Kg	☼	09/21/17 17:50	09/25/17 17:29	1
trans-1,3-Dichloropropene	<1.6		1.6	0.56	ug/Kg	☼	09/21/17 17:50	09/25/17 17:29	1
1,1,1-Trichloroethane	<1.6		1.6	0.53	ug/Kg	☼	09/21/17 17:50	09/25/17 17:29	1
1,1,2-Trichloroethane	<1.6		1.6	0.68	ug/Kg	☼	09/21/17 17:50	09/25/17 17:29	1
Trichloroethene	<1.6		1.6	0.54	ug/Kg	☼	09/21/17 17:50	09/25/17 17:29	1
Vinyl chloride	<1.6		1.6	0.70	ug/Kg	☼	09/21/17 17:50	09/25/17 17:29	1
Xylenes, Total	<3.2		3.2	0.51	ug/Kg	☼	09/21/17 17:50	09/25/17 17:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		75 - 131	09/21/17 17:50	09/25/17 17:29	1
Dibromofluoromethane	104		75 - 126	09/21/17 17:50	09/25/17 17:29	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	09/21/17 17:50	09/25/17 17:29	1
Toluene-d8 (Surr)	108		75 - 124	09/21/17 17:50	09/25/17 17:29	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	☼	09/26/17 07:25	09/27/17 19:47	1
1,2-Dichlorobenzene	<190		190	44	ug/Kg	☼	09/26/17 07:25	09/27/17 19:47	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	09/26/17 07:25	09/27/17 19:47	1
1,4-Dichlorobenzene	<190		190	47	ug/Kg	☼	09/26/17 07:25	09/27/17 19:47	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	09/26/17 07:25	09/27/17 19:47	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134344-1

Client Sample ID: PS-4(38-46)-092017

Lab Sample ID: 500-134344-18

Date Collected: 09/20/17 10:00

Matrix: Solid

Date Received: 09/20/17 16:37

Percent Solids: 87.4

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	84	ug/Kg	☼	09/26/17 07:25	09/27/17 19:47	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	09/26/17 07:25	09/27/17 19:47	1
2,4-Dichlorophenol	<370		370	88	ug/Kg	☼	09/26/17 07:25	09/27/17 19:47	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	09/26/17 07:25	09/27/17 19:47	1
2,4-Dinitrophenol	<750	*	750	650	ug/Kg	☼	09/26/17 07:25	09/27/17 19:47	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	09/26/17 07:25	09/27/17 19:47	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	09/26/17 07:25	09/27/17 19:47	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	09/26/17 07:25	09/27/17 19:47	1
2-Chlorophenol	<190		190	63	ug/Kg	☼	09/26/17 07:25	09/27/17 19:47	1
2-Methylnaphthalene	190		75	6.8	ug/Kg	☼	09/26/17 07:25	09/27/17 19:47	1
2-Methylphenol	<190		190	59	ug/Kg	☼	09/26/17 07:25	09/27/17 19:47	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	09/26/17 07:25	09/27/17 19:47	1
2-Nitrophenol	<370		370	87	ug/Kg	☼	09/26/17 07:25	09/27/17 19:47	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	09/26/17 07:25	09/27/17 19:47	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	09/26/17 07:25	09/27/17 19:47	1
3-Nitroaniline	<370		370	110	ug/Kg	☼	09/26/17 07:25	09/27/17 19:47	1
4,6-Dinitro-2-methylphenol	<750		750	300	ug/Kg	☼	09/26/17 07:25	09/27/17 19:47	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	09/26/17 07:25	09/27/17 19:47	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	09/26/17 07:25	09/27/17 19:47	1
4-Chloroaniline	<750		750	170	ug/Kg	☼	09/26/17 07:25	09/27/17 19:47	1
4-Chlorophenyl phenyl ether	<190		190	43	ug/Kg	☼	09/26/17 07:25	09/27/17 19:47	1
4-Nitroaniline	<370		370	150	ug/Kg	☼	09/26/17 07:25	09/27/17 19:47	1
4-Nitrophenol	<750		750	350	ug/Kg	☼	09/26/17 07:25	09/27/17 19:47	1
Acenaphthene	<37		37	6.6	ug/Kg	☼	09/26/17 07:25	09/27/17 19:47	1
Acenaphthylene	<37		37	4.9	ug/Kg	☼	09/26/17 07:25	09/27/17 19:47	1
Anthracene	<37		37	6.2	ug/Kg	☼	09/26/17 07:25	09/27/17 19:47	1
Benzo[a]anthracene	<37		37	5.0	ug/Kg	☼	09/26/17 07:25	09/27/17 19:47	1
Benzo[a]pyrene	<37		37	7.2	ug/Kg	☼	09/26/17 07:25	09/27/17 19:47	1
Benzo[b]fluoranthene	<37		37	8.0	ug/Kg	☼	09/26/17 07:25	09/27/17 19:47	1
Benzo[g,h,i]perylene	<37		37	12	ug/Kg	☼	09/26/17 07:25	09/27/17 19:47	1
Benzo[k]fluoranthene	<37		37	11	ug/Kg	☼	09/26/17 07:25	09/27/17 19:47	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	09/26/17 07:25	09/27/17 19:47	1
Bis(2-chloroethyl)ether	<190		190	55	ug/Kg	☼	09/26/17 07:25	09/27/17 19:47	1
Bis(2-ethylhexyl) phthalate	<190		190	68	ug/Kg	☼	09/26/17 07:25	09/27/17 19:47	1
Butyl benzyl phthalate	<190		190	70	ug/Kg	☼	09/26/17 07:25	09/27/17 19:47	1
Carbazole	<190		190	92	ug/Kg	☼	09/26/17 07:25	09/27/17 19:47	1
Chrysene	<37		37	10	ug/Kg	☼	09/26/17 07:25	09/27/17 19:47	1
Dibenz(a,h)anthracene	<37		37	7.1	ug/Kg	☼	09/26/17 07:25	09/27/17 19:47	1
Dibenzofuran	<190		190	43	ug/Kg	☼	09/26/17 07:25	09/27/17 19:47	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	09/26/17 07:25	09/27/17 19:47	1
Dimethyl phthalate	<190		190	48	ug/Kg	☼	09/26/17 07:25	09/27/17 19:47	1
Di-n-butyl phthalate	<190		190	56	ug/Kg	☼	09/26/17 07:25	09/27/17 19:47	1
Di-n-octyl phthalate	<190		190	60	ug/Kg	☼	09/26/17 07:25	09/27/17 19:47	1
Fluoranthene	<37		37	6.9	ug/Kg	☼	09/26/17 07:25	09/27/17 19:47	1
Fluorene	<37		37	5.2	ug/Kg	☼	09/26/17 07:25	09/27/17 19:47	1
Hexachlorobenzene	<75		75	8.6	ug/Kg	☼	09/26/17 07:25	09/27/17 19:47	1
Hexachlorobutadiene	<190		190	58	ug/Kg	☼	09/26/17 07:25	09/27/17 19:47	1
Hexachlorocyclopentadiene	<750		750	210	ug/Kg	☼	09/26/17 07:25	09/27/17 19:47	1
Hexachloroethane	<190		190	56	ug/Kg	☼	09/26/17 07:25	09/27/17 19:47	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134344-1

Client Sample ID: PS-4(38-46)-092017

Lab Sample ID: 500-134344-18

Date Collected: 09/20/17 10:00

Matrix: Solid

Date Received: 09/20/17 16:37

Percent Solids: 87.4

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	9.6	ug/Kg	☼	09/26/17 07:25	09/27/17 19:47	1
Isophorone	<190		190	42	ug/Kg	☼	09/26/17 07:25	09/27/17 19:47	1
Naphthalene	51		37	5.7	ug/Kg	☼	09/26/17 07:25	09/27/17 19:47	1
Nitrobenzene	<37		37	9.2	ug/Kg	☼	09/26/17 07:25	09/27/17 19:47	1
N-Nitrosodi-n-propylamine	<75		75	45	ug/Kg	☼	09/26/17 07:25	09/27/17 19:47	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	09/26/17 07:25	09/27/17 19:47	1
Pentachlorophenol	<750		750	590	ug/Kg	☼	09/26/17 07:25	09/27/17 19:47	1
Phenanthrene	160		37	5.2	ug/Kg	☼	09/26/17 07:25	09/27/17 19:47	1
Phenol	<190		190	82	ug/Kg	☼	09/26/17 07:25	09/27/17 19:47	1
Pyrene	<37		37	7.3	ug/Kg	☼	09/26/17 07:25	09/27/17 19:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	63		25 - 139	09/26/17 07:25	09/27/17 19:47	1
2-Fluorobiphenyl	78		44 - 121	09/26/17 07:25	09/27/17 19:47	1
2-Fluorophenol	107		46 - 133	09/26/17 07:25	09/27/17 19:47	1
Nitrobenzene-d5	86		41 - 120	09/26/17 07:25	09/27/17 19:47	1
Phenol-d5	95		46 - 125	09/26/17 07:25	09/27/17 19:47	1
Terphenyl-d14	94		35 - 160	09/26/17 07:25	09/27/17 19:47	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/26/17 15:08	09/27/17 14:07	1
Barium	0.48	J	0.50	0.050	mg/L		09/26/17 15:08	09/27/17 14:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/26/17 15:08	09/27/17 14:07	1
Cadmium	0.0025	J	0.0050	0.0020	mg/L		09/26/17 15:08	09/27/17 14:07	1
Chromium	<0.025		0.025	0.010	mg/L		09/26/17 15:08	09/27/17 14:07	1
Cobalt	0.046		0.025	0.010	mg/L		09/26/17 15:08	09/27/17 14:07	1
Copper	0.044	J B	0.20	0.010	mg/L		09/26/17 15:08	09/27/17 14:07	1
Iron	<0.40		0.40	0.20	mg/L		09/26/17 15:08	09/27/17 14:07	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/26/17 15:08	09/27/17 14:07	1
Manganese	2.7		0.025	0.010	mg/L		09/26/17 15:08	09/27/17 14:07	1
Nickel	0.094		0.025	0.010	mg/L		09/26/17 15:08	09/27/17 14:07	1
Selenium	<0.050		0.050	0.020	mg/L		09/26/17 15:08	09/27/17 14:07	1
Silver	<0.025		0.025	0.010	mg/L		09/26/17 15:08	09/27/17 14:07	1
Zinc	0.053	J B ^	0.50	0.020	mg/L		09/26/17 15:08	09/27/17 14:07	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		09/25/17 07:12	09/26/17 05:05	1
Barium	0.14	J	0.50	0.050	mg/L		09/25/17 07:12	09/26/17 05:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/25/17 07:12	09/26/17 05:05	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/25/17 07:12	09/26/17 05:05	1
Chromium	0.026		0.025	0.010	mg/L		09/25/17 07:12	09/26/17 05:05	1
Cobalt	0.013	J	0.025	0.010	mg/L		09/25/17 07:12	09/26/17 05:05	1
Copper	0.050		0.025	0.010	mg/L		09/25/17 07:12	09/26/17 05:05	1
Iron	14		0.40	0.20	mg/L		09/25/17 07:12	09/26/17 05:05	1
Lead	0.0096		0.0075	0.0075	mg/L		09/25/17 07:12	09/26/17 05:05	1
Manganese	0.26		0.025	0.010	mg/L		09/25/17 07:12	09/26/17 05:05	1
Nickel	0.028		0.025	0.010	mg/L		09/25/17 07:12	09/26/17 05:05	1
Selenium	<0.050		0.050	0.020	mg/L		09/25/17 07:12	09/26/17 05:05	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134344-1

Client Sample ID: PS-4(38-46)-092017

Lab Sample ID: 500-134344-18

Date Collected: 09/20/17 10:00

Matrix: Solid

Date Received: 09/20/17 16:37

Percent Solids: 87.4

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		09/25/17 07:12	09/26/17 05:05	1
Zinc	0.094	J	0.50	0.020	mg/L		09/25/17 07:12	09/26/17 05:05	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.21	mg/Kg	☼	09/22/17 17:18	09/25/17 19:48	1
Arsenic	10		0.55	0.19	mg/Kg	☼	09/22/17 17:18	09/25/17 19:48	1
Barium	28		0.55	0.063	mg/Kg	☼	09/22/17 17:18	09/25/17 19:48	1
Beryllium	0.61		0.22	0.051	mg/Kg	☼	09/22/17 17:18	09/25/17 19:48	1
Cadmium	0.24	B	0.11	0.020	mg/Kg	☼	09/22/17 17:18	09/25/17 19:48	1
Calcium	73000	B	110	19	mg/Kg	☼	09/22/17 17:18	09/26/17 19:08	10
Chromium	13		0.55	0.27	mg/Kg	☼	09/22/17 17:18	09/25/17 19:48	1
Cobalt	14		0.27	0.072	mg/Kg	☼	09/22/17 17:18	09/25/17 19:48	1
Copper	33		0.55	0.15	mg/Kg	☼	09/22/17 17:18	09/25/17 19:48	1
Iron	19000	B	11	5.7	mg/Kg	☼	09/22/17 17:18	09/25/17 19:48	1
Lead	16		0.27	0.13	mg/Kg	☼	09/22/17 17:18	09/25/17 19:48	1
Magnesium	23000		5.5	2.7	mg/Kg	☼	09/22/17 17:18	09/25/17 19:48	1
Manganese	320		0.55	0.080	mg/Kg	☼	09/22/17 17:18	09/25/17 19:48	1
Nickel	32		0.55	0.16	mg/Kg	☼	09/22/17 17:18	09/25/17 19:48	1
Potassium	2600		27	9.7	mg/Kg	☼	09/22/17 17:18	09/25/17 19:48	1
Selenium	0.69		0.55	0.32	mg/Kg	☼	09/22/17 17:18	09/25/17 19:48	1
Silver	<0.27		0.27	0.071	mg/Kg	☼	09/22/17 17:18	09/25/17 19:48	1
Sodium	180		55	8.1	mg/Kg	☼	09/22/17 17:18	09/25/17 19:48	1
Thallium	0.59		0.55	0.27	mg/Kg	☼	09/22/17 17:18	09/25/17 19:48	1
Vanadium	16		0.27	0.065	mg/Kg	☼	09/22/17 17:18	09/25/17 19:48	1
Zinc	78		1.1	0.48	mg/Kg	☼	09/22/17 17:18	09/25/17 19:48	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		09/26/17 14:10	09/27/17 08:47	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		09/25/17 16:40	09/26/17 12:08	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	24		19	6.4	ug/Kg	☼	09/26/17 12:40	09/27/17 09:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.9		0.20	0.20	SU			09/26/17 04:43	1

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134344-1

Client Sample ID: PS-4(46-54)-092017

Lab Sample ID: 500-134344-19

Date Collected: 09/20/17 10:30

Matrix: Solid

Date Received: 09/20/17 16:37

Percent Solids: 81.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	18		16	7.1	ug/Kg	☼	09/21/17 17:50	09/25/17 17:54	1
Benzene	<1.6		1.6	0.42	ug/Kg	☼	09/21/17 17:50	09/25/17 17:54	1
Bromodichloromethane	<1.6		1.6	0.33	ug/Kg	☼	09/21/17 17:50	09/25/17 17:54	1
Bromoform	<1.6		1.6	0.48	ug/Kg	☼	09/21/17 17:50	09/25/17 17:54	1
Bromomethane	<4.1		4.1	1.5	ug/Kg	☼	09/21/17 17:50	09/25/17 17:54	1
Carbon disulfide	<4.1		4.1	0.85	ug/Kg	☼	09/21/17 17:50	09/25/17 17:54	1
Carbon tetrachloride	<1.6		1.6	0.47	ug/Kg	☼	09/21/17 17:50	09/25/17 17:54	1
Chlorobenzene	<1.6		1.6	0.60	ug/Kg	☼	09/21/17 17:50	09/25/17 17:54	1
Chloroethane	<4.1		4.1	1.2	ug/Kg	☼	09/21/17 17:50	09/25/17 17:54	1
Chloroform	<1.6		1.6	0.57	ug/Kg	☼	09/21/17 17:50	09/25/17 17:54	1
Chloromethane	<4.1		4.1	1.6	ug/Kg	☼	09/21/17 17:50	09/25/17 17:54	1
cis-1,2-Dichloroethene	<1.6		1.6	0.46	ug/Kg	☼	09/21/17 17:50	09/25/17 17:54	1
cis-1,3-Dichloropropene	<1.6		1.6	0.49	ug/Kg	☼	09/21/17 17:50	09/25/17 17:54	1
Dibromochloromethane	<1.6		1.6	0.53	ug/Kg	☼	09/21/17 17:50	09/25/17 17:54	1
1,1-Dichloroethane	<1.6		1.6	0.56	ug/Kg	☼	09/21/17 17:50	09/25/17 17:54	1
1,2-Dichloroethane	<4.1		4.1	1.3	ug/Kg	☼	09/21/17 17:50	09/25/17 17:54	1
1,1-Dichloroethene	<1.6		1.6	0.56	ug/Kg	☼	09/21/17 17:50	09/25/17 17:54	1
1,2-Dichloropropane	<1.6		1.6	0.42	ug/Kg	☼	09/21/17 17:50	09/25/17 17:54	1
1,3-Dichloropropene, Total	<1.6		1.6	0.57	ug/Kg	☼	09/21/17 17:50	09/25/17 17:54	1
Ethylbenzene	<1.6		1.6	0.78	ug/Kg	☼	09/21/17 17:50	09/25/17 17:54	1
2-Hexanone	<4.1		4.1	1.3	ug/Kg	☼	09/21/17 17:50	09/25/17 17:54	1
Methylene Chloride	<4.1		4.1	1.6	ug/Kg	☼	09/21/17 17:50	09/25/17 17:54	1
Methyl Ethyl Ketone	<4.1		4.1	1.8	ug/Kg	☼	09/21/17 17:50	09/25/17 17:54	1
methyl isobutyl ketone	<4.1		4.1	1.2	ug/Kg	☼	09/21/17 17:50	09/25/17 17:54	1
Methyl tert-butyl ether	<1.6		1.6	0.48	ug/Kg	☼	09/21/17 17:50	09/25/17 17:54	1
Styrene	<1.6		1.6	0.49	ug/Kg	☼	09/21/17 17:50	09/25/17 17:54	1
1,1,2,2-Tetrachloroethane	<1.6		1.6	0.52	ug/Kg	☼	09/21/17 17:50	09/25/17 17:54	1
Tetrachloroethene	<1.6		1.6	0.55	ug/Kg	☼	09/21/17 17:50	09/25/17 17:54	1
Toluene	<1.6		1.6	0.41	ug/Kg	☼	09/21/17 17:50	09/25/17 17:54	1
trans-1,2-Dichloroethene	<1.6		1.6	0.72	ug/Kg	☼	09/21/17 17:50	09/25/17 17:54	1
trans-1,3-Dichloropropene	<1.6		1.6	0.57	ug/Kg	☼	09/21/17 17:50	09/25/17 17:54	1
1,1,1-Trichloroethane	<1.6		1.6	0.55	ug/Kg	☼	09/21/17 17:50	09/25/17 17:54	1
1,1,2-Trichloroethane	<1.6		1.6	0.70	ug/Kg	☼	09/21/17 17:50	09/25/17 17:54	1
Trichloroethene	<1.6		1.6	0.55	ug/Kg	☼	09/21/17 17:50	09/25/17 17:54	1
Vinyl chloride	<1.6		1.6	0.72	ug/Kg	☼	09/21/17 17:50	09/25/17 17:54	1
Xylenes, Total	<3.3		3.3	0.52	ug/Kg	☼	09/21/17 17:50	09/25/17 17:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		75 - 131	09/21/17 17:50	09/25/17 17:54	1
Dibromofluoromethane	93		75 - 126	09/21/17 17:50	09/25/17 17:54	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134	09/21/17 17:50	09/25/17 17:54	1
Toluene-d8 (Surr)	124		75 - 124	09/21/17 17:50	09/25/17 17:54	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	☼	09/26/17 07:25	09/27/17 20:13	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	09/26/17 07:25	09/27/17 20:13	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	09/26/17 07:25	09/27/17 20:13	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	09/26/17 07:25	09/27/17 20:13	1
2,2'-oxybis[1-chloropropane]	<190		190	45	ug/Kg	☼	09/26/17 07:25	09/27/17 20:13	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134344-1

Client Sample ID: PS-4(46-54)-092017

Lab Sample ID: 500-134344-19

Date Collected: 09/20/17 10:30

Matrix: Solid

Date Received: 09/20/17 16:37

Percent Solids: 81.5

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	☼	09/26/17 07:25	09/27/17 20:13	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	09/26/17 07:25	09/27/17 20:13	1
2,4-Dichlorophenol	<380		380	91	ug/Kg	☼	09/26/17 07:25	09/27/17 20:13	1
2,4-Dimethylphenol	<380		380	150	ug/Kg	☼	09/26/17 07:25	09/27/17 20:13	1
2,4-Dinitrophenol	<770	*	770	680	ug/Kg	☼	09/26/17 07:25	09/27/17 20:13	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	09/26/17 07:25	09/27/17 20:13	1
2,6-Dinitrotoluene	<190		190	76	ug/Kg	☼	09/26/17 07:25	09/27/17 20:13	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	09/26/17 07:25	09/27/17 20:13	1
2-Chlorophenol	<190		190	66	ug/Kg	☼	09/26/17 07:25	09/27/17 20:13	1
2-Methylnaphthalene	33	J	77	7.1	ug/Kg	☼	09/26/17 07:25	09/27/17 20:13	1
2-Methylphenol	<190		190	62	ug/Kg	☼	09/26/17 07:25	09/27/17 20:13	1
2-Nitroaniline	<190		190	52	ug/Kg	☼	09/26/17 07:25	09/27/17 20:13	1
2-Nitrophenol	<380		380	91	ug/Kg	☼	09/26/17 07:25	09/27/17 20:13	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	☼	09/26/17 07:25	09/27/17 20:13	1
3,3'-Dichlorobenzidine	<190		190	54	ug/Kg	☼	09/26/17 07:25	09/27/17 20:13	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	09/26/17 07:25	09/27/17 20:13	1
4,6-Dinitro-2-methylphenol	<770		770	310	ug/Kg	☼	09/26/17 07:25	09/27/17 20:13	1
4-Bromophenyl phenyl ether	<190		190	51	ug/Kg	☼	09/26/17 07:25	09/27/17 20:13	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	09/26/17 07:25	09/27/17 20:13	1
4-Chloroaniline	<770		770	180	ug/Kg	☼	09/26/17 07:25	09/27/17 20:13	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	09/26/17 07:25	09/27/17 20:13	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	09/26/17 07:25	09/27/17 20:13	1
4-Nitrophenol	<770		770	370	ug/Kg	☼	09/26/17 07:25	09/27/17 20:13	1
Acenaphthene	<38		38	6.9	ug/Kg	☼	09/26/17 07:25	09/27/17 20:13	1
Acenaphthylene	<38		38	5.1	ug/Kg	☼	09/26/17 07:25	09/27/17 20:13	1
Anthracene	<38		38	6.4	ug/Kg	☼	09/26/17 07:25	09/27/17 20:13	1
Benzo[a]anthracene	<38		38	5.2	ug/Kg	☼	09/26/17 07:25	09/27/17 20:13	1
Benzo[a]pyrene	<38		38	7.4	ug/Kg	☼	09/26/17 07:25	09/27/17 20:13	1
Benzo[b]fluoranthene	<38		38	8.3	ug/Kg	☼	09/26/17 07:25	09/27/17 20:13	1
Benzo[g,h,i]perylene	16	J	38	12	ug/Kg	☼	09/26/17 07:25	09/27/17 20:13	1
Benzo[k]fluoranthene	<38		38	11	ug/Kg	☼	09/26/17 07:25	09/27/17 20:13	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	09/26/17 07:25	09/27/17 20:13	1
Bis(2-chloroethyl)ether	<190		190	58	ug/Kg	☼	09/26/17 07:25	09/27/17 20:13	1
Bis(2-ethylhexyl) phthalate	<190		190	70	ug/Kg	☼	09/26/17 07:25	09/27/17 20:13	1
Butyl benzyl phthalate	<190		190	73	ug/Kg	☼	09/26/17 07:25	09/27/17 20:13	1
Carbazole	<190		190	96	ug/Kg	☼	09/26/17 07:25	09/27/17 20:13	1
Chrysene	53		38	10	ug/Kg	☼	09/26/17 07:25	09/27/17 20:13	1
Dibenz(a,h)anthracene	<38		38	7.4	ug/Kg	☼	09/26/17 07:25	09/27/17 20:13	1
Dibenzofuran	<190		190	45	ug/Kg	☼	09/26/17 07:25	09/27/17 20:13	1
Diethyl phthalate	<190		190	65	ug/Kg	☼	09/26/17 07:25	09/27/17 20:13	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	09/26/17 07:25	09/27/17 20:13	1
Di-n-butyl phthalate	<190		190	59	ug/Kg	☼	09/26/17 07:25	09/27/17 20:13	1
Di-n-octyl phthalate	<190		190	63	ug/Kg	☼	09/26/17 07:25	09/27/17 20:13	1
Fluoranthene	25	J	38	7.1	ug/Kg	☼	09/26/17 07:25	09/27/17 20:13	1
Fluorene	<38		38	5.4	ug/Kg	☼	09/26/17 07:25	09/27/17 20:13	1
Hexachlorobenzene	<77		77	8.9	ug/Kg	☼	09/26/17 07:25	09/27/17 20:13	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	09/26/17 07:25	09/27/17 20:13	1
Hexachlorocyclopentadiene	<770		770	220	ug/Kg	☼	09/26/17 07:25	09/27/17 20:13	1
Hexachloroethane	<190		190	58	ug/Kg	☼	09/26/17 07:25	09/27/17 20:13	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134344-1

Client Sample ID: PS-4(46-54)-092017

Lab Sample ID: 500-134344-19

Date Collected: 09/20/17 10:30

Matrix: Solid

Date Received: 09/20/17 16:37

Percent Solids: 81.5

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	☼	09/26/17 07:25	09/27/17 20:13	1
Isophorone	<190		190	43	ug/Kg	☼	09/26/17 07:25	09/27/17 20:13	1
Naphthalene	<38		38	5.9	ug/Kg	☼	09/26/17 07:25	09/27/17 20:13	1
Nitrobenzene	<38		38	9.6	ug/Kg	☼	09/26/17 07:25	09/27/17 20:13	1
N-Nitrosodi-n-propylamine	<77		77	47	ug/Kg	☼	09/26/17 07:25	09/27/17 20:13	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	09/26/17 07:25	09/27/17 20:13	1
Pentachlorophenol	<770		770	620	ug/Kg	☼	09/26/17 07:25	09/27/17 20:13	1
Phenanthrene	54		38	5.4	ug/Kg	☼	09/26/17 07:25	09/27/17 20:13	1
Phenol	<190		190	85	ug/Kg	☼	09/26/17 07:25	09/27/17 20:13	1
Pyrene	47		38	7.6	ug/Kg	☼	09/26/17 07:25	09/27/17 20:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	61		25 - 139				09/26/17 07:25	09/27/17 20:13	1
2-Fluorobiphenyl	76		44 - 121				09/26/17 07:25	09/27/17 20:13	1
2-Fluorophenol	111		46 - 133				09/26/17 07:25	09/27/17 20:13	1
Nitrobenzene-d5	83		41 - 120				09/26/17 07:25	09/27/17 20:13	1
Phenol-d5	93		46 - 125				09/26/17 07:25	09/27/17 20:13	1
Terphenyl-d14	98		35 - 160				09/26/17 07:25	09/27/17 20:13	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		09/26/17 15:08	09/27/17 14:20	1
Barium	0.29	J	0.50	0.050	mg/L		09/26/17 15:08	09/27/17 14:20	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/26/17 15:08	09/27/17 14:20	1
Cadmium	0.0024	J	0.0050	0.0020	mg/L		09/26/17 15:08	09/27/17 14:20	1
Chromium	<0.025		0.025	0.010	mg/L		09/26/17 15:08	09/27/17 14:20	1
Cobalt	0.045		0.025	0.010	mg/L		09/26/17 15:08	09/27/17 14:20	1
Copper	0.048	J B	0.20	0.010	mg/L		09/26/17 15:08	09/27/17 14:20	1
Iron	<0.40		0.40	0.20	mg/L		09/26/17 15:08	09/27/17 14:20	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/26/17 15:08	09/27/17 14:20	1
Manganese	2.9		0.025	0.010	mg/L		09/26/17 15:08	09/27/17 14:20	1
Nickel	0.086		0.025	0.010	mg/L		09/26/17 15:08	09/27/17 14:20	1
Selenium	<0.050		0.050	0.020	mg/L		09/26/17 15:08	09/27/17 14:20	1
Silver	<0.025		0.025	0.010	mg/L		09/26/17 15:08	09/27/17 14:20	1
Zinc	0.033	J B ^	0.50	0.020	mg/L		09/26/17 15:08	09/27/17 14:20	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		09/25/17 07:12	09/26/17 05:17	1
Barium	<0.50		0.50	0.050	mg/L		09/25/17 07:12	09/26/17 05:17	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/25/17 07:12	09/26/17 05:17	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/25/17 07:12	09/26/17 05:17	1
Chromium	<0.025		0.025	0.010	mg/L		09/25/17 07:12	09/26/17 05:17	1
Cobalt	<0.025		0.025	0.010	mg/L		09/25/17 07:12	09/26/17 05:17	1
Copper	0.021	J	0.025	0.010	mg/L		09/25/17 07:12	09/26/17 05:17	1
Iron	0.79		0.40	0.20	mg/L		09/25/17 07:12	09/26/17 05:17	1
Lead	<0.0075		0.0075	0.0075	mg/L		09/25/17 07:12	09/26/17 05:17	1
Manganese	0.060		0.025	0.010	mg/L		09/25/17 07:12	09/26/17 05:17	1
Nickel	<0.025		0.025	0.010	mg/L		09/25/17 07:12	09/26/17 05:17	1
Selenium	<0.050		0.050	0.020	mg/L		09/25/17 07:12	09/26/17 05:17	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134344-1

Client Sample ID: PS-4(46-54)-092017

Lab Sample ID: 500-134344-19

Date Collected: 09/20/17 10:30

Matrix: Solid

Date Received: 09/20/17 16:37

Percent Solids: 81.5

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		09/25/17 07:12	09/26/17 05:17	1
Zinc	0.15	J	0.50	0.020	mg/L		09/25/17 07:12	09/26/17 05:17	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.28	J F1	1.1	0.22	mg/Kg	☼	09/22/17 17:18	09/25/17 19:52	1
Arsenic	13		0.56	0.19	mg/Kg	☼	09/22/17 17:18	09/25/17 19:52	1
Barium	15		0.56	0.064	mg/Kg	☼	09/22/17 17:18	09/25/17 19:52	1
Beryllium	0.46		0.23	0.053	mg/Kg	☼	09/22/17 17:18	09/25/17 19:52	1
Cadmium	0.26	B	0.11	0.020	mg/Kg	☼	09/22/17 17:18	09/25/17 19:52	1
Calcium	79000	B	110	19	mg/Kg	☼	09/22/17 17:18	09/26/17 19:40	10
Chromium	9.4		0.56	0.28	mg/Kg	☼	09/22/17 17:18	09/25/17 19:52	1
Cobalt	16		0.28	0.074	mg/Kg	☼	09/22/17 17:18	09/25/17 19:52	1
Copper	39		0.56	0.16	mg/Kg	☼	09/22/17 17:18	09/25/17 19:52	1
Iron	20000	B	11	5.9	mg/Kg	☼	09/22/17 17:18	09/25/17 19:52	1
Lead	20	F1	0.28	0.13	mg/Kg	☼	09/22/17 17:18	09/25/17 19:52	1
Magnesium	29000		5.6	2.8	mg/Kg	☼	09/22/17 17:18	09/25/17 19:52	1
Manganese	390		0.56	0.082	mg/Kg	☼	09/22/17 17:18	09/25/17 19:52	1
Nickel	32		0.56	0.16	mg/Kg	☼	09/22/17 17:18	09/25/17 19:52	1
Potassium	1500	F1	28	10	mg/Kg	☼	09/22/17 17:18	09/25/17 19:52	1
Selenium	0.64		0.56	0.33	mg/Kg	☼	09/22/17 17:18	09/25/17 19:52	1
Silver	<0.28		0.28	0.073	mg/Kg	☼	09/22/17 17:18	09/25/17 19:52	1
Sodium	150		56	8.3	mg/Kg	☼	09/22/17 17:18	09/26/17 19:12	1
Thallium	0.85		0.56	0.28	mg/Kg	☼	09/22/17 17:18	09/25/17 19:52	1
Vanadium	13		0.28	0.066	mg/Kg	☼	09/22/17 17:18	09/25/17 19:52	1
Zinc	59	F1	1.1	0.49	mg/Kg	☼	09/22/17 17:18	09/25/17 19:52	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		09/26/17 14:10	09/27/17 08:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		09/25/17 16:40	09/26/17 12:19	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	37		20	6.7	ug/Kg	☼	09/26/17 12:40	09/27/17 09:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.6		0.20	0.20	SU			09/26/17 04:59	1

Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Eisenhower Expressway - WO 062

TestAmerica Job ID: 500-134344-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	ISTD response or retention time outside acceptable limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

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

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.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
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.
F2	MS/MSD RPD exceeds control limits
F4	MS/MSD RPD exceeds control limits due to sample size difference.

Glossary

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

Accreditation/Certification Summary

Client: Weston Solutions, Inc.

TestAmerica Job ID: 500-134344-1

Project/Site: IDOT - Eisenhower Expressway - WO 062

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Illinois	NELAP	5	100201	04-30-19

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

Analysis Method	Prep Method	Matrix	Analyte
8260B	5035	Solid	1,3-Dichloropropene, Total
9045D		Solid	pH
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

TestAmerica

THE LEADER IN ENVIRONMENTAL T

2417 Bond Street, University Park, IL 6048
Phone: 708.534.5200 Fax: 708.534.51



500-134344 COC

Report To (optional)
Contact: Babu
Company: Weston Solutions
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: _____

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

Chain of Custody Record

Lab Job #: 500-134344
Chain of Custody Number: _____
Page 3 of 5
Temperature °C of Cooler: 20, 3, 3, 4, 4, 6, 2, 7

Client		Client Project #		Preservative		Parameter		Matrix		Comments	
<u>Weston Solutions</u>											
Project Name		Lab Project #		# of Containers		Matrix		Matrix		Comments	
<u>IDOT 062 - Eisenhower Expressway</u>											
Project Location/State		Lab PM		Date		Time		Matrix		Comments	
<u>Forest Park, IL</u>		<u>R. Wright</u>									
Sampler		Sample ID		Date		Time		Matrix		Comments	
<u>VJS Hard</u>											
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOC	SVOC	total metals	PCLP/SPLP metals	PH
		PS-11092017	09/20/17	1105	6	W	X	X	X	X	X
1		FH-13(0-5)-092017	09/20/17	1235	6	S	X	X	X	X	X
2		FH-13(5-10)-092017		1245	6	S	X	X	X	X	X
3		FH-13(10-15)-092017		1258	6	S	X	X	X	X	X
4		FH-13(15-20)-092017		1305	6	S	X	X	X	X	X
5		FH-13(20-25)-092017		1320	6	S	X	X	X	X	X
6		FH-13(20-25)-092017D		1310	6	S	X	X	X	X	X
7		FH-13(25-30)-09-2017		1340	6	S	X	X	X	X	X
8		FH-13(30-38)-092017		1355	6	S	X	X	X	X	X
9		FH-13(38-46)-092017		1410	6	S	X	X	X	X	X

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

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

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

Relinquished By: <u>Katy Jensen</u> Company: _____ Date: <u>9/20/17</u> Time: <u>1527</u>	Received By: <u>P. Neal</u> Company: <u>TA</u> Date: <u>9/20/17</u> Time: <u>1527</u>	Lab Courier: <u>TIA</u>
Relinquished By: <u>P. Neal</u> Company: <u>TA</u> Date: <u>9/20/17</u> Time: <u>1637</u>	Received By: <u>Shawn</u> Company: <u>TA-CAI</u> Date: <u>9/21/17</u> Time: <u>0730</u>	Shipped: _____
Relinquished By: _____ Company: _____ Date: _____ Time: _____	Received By: _____ Company: _____ Date: _____ Time: _____	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

Report To (optional)
Contact: Bubu
Company: Western
Address: _____
Address: _____
Phone: _____
Fax: _____
E-Mail: _____

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

Chain of Custody Record

Lab Job #: 500-134344
Chain of Custody Number: _____
Page 4 of 5
Temperature °C of Cooler: 2.0, 3.3, 4.4, 6.2, 7

Client		Client Project #		Preservative		Parameter		Matrix		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	
Project Name		Lab Project #									
Project Location/State		Lab RM									
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix					Comments
western solutions		IDOT 062-Eisenhower Expressway		VOC		SVOC		total metals		PCLP/SPDP metals PH	
Forest Park, IL		12. Wright									
S. Hord											
10		PS-4(0-5)-092017	09-20-17	0810	6	S	X	X	X	X	
11		PS-4(5-10)-092017	09-20-17	0820	6	S	X	X	X	X	
12		PS-4(10-15)-092017	09-20-17	0830	6	S	X	X	X	X	
13		PS-4(15-20)-092017	09-20-17	0840	6	S	X	X	X	X	
14		PS-4(20-25)-092017	09-20-17	0850	6	S	X	X	X	X	
15		PS-4(25-30)-092017	09-20-17	0910	6	S	X	X	X	X	
16		PS-4(30-38)-092017	09-20-17	0930	6	S	X	X	X	X	
17		PS-4(38-46)-092017	09-20-17	1000	6	S	X	X	X	X	
18		PS-4(46-54)-092017	09-20-17	1030	6	S	X	X	X	X	

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

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

Relinquished By: <u>[Signature]</u> Company: <u>Western</u> Date: <u>09/20/17</u> Time: <u>1527</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>9/20/17</u> Time: <u>1527</u>	Lab Courier: <u>TA</u>
Relinquished By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>9/20/17</u> Time: <u>1459</u>	Received By: <u>[Signature]</u> Company: <u>TA-CAF</u> Date: <u>9/21/17</u> Time: <u>0730</u>	Shipped: _____
Relinquished By: _____ Company: _____ Date: _____ Time: _____	Received By: _____ Company: _____ Date: _____ Time: _____	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: _____