



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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 346: US 41 from IL 21 to West Park Ave Office Phone Number, if available: _____

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

State Right of Way from North of IL 21 to IL 120

City: Gurnee State: IL Zip Code: _____

County: Lake Township: _____

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

Latitude: 42.350098727 Longitude: -87.892985410
(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: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

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

Project Name: FAP 346: US 41 from IL 21 to West Park Ave

Latitude: 42.350098727 Longitude: -87.892985410

Uncontaminated Site Certification

III. Basis for Certification and Attachments

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

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

LOCATIONS ROW-1, ROW-4, ROW-5, ROW-7, AND ROW-9 THROUGH ROW-20 WERE SAMPLED ADJACENT TO ISGS SITE No. 2668A-1. SEE FIGURES 3-3/3-5/3-6 AND TABLE 4-1 OF THE REVISED 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]:

TEST AMERICA ANALYTICAL REPORT - JOB ID: 500-90586-1,
 TEST AMERICA ANALYTICAL REPORT - JOB ID: 500-90936-1, AND
 TEST AMERICA ANALYTICAL REPORT - JOB ID: 500-90937-1.

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

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

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

Company Name: Illinois Department of Transportation

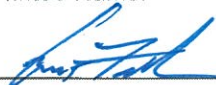
Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Kurt T. Fischer P.G.

Printed Name:



2/9/15

Date:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

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

Summary Table of ISGS Site No. 2668A-1
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 346: US Route 41 (Skokie Highway) from IL Route 21 to West Park Avenue
Gurnee, Park City, Waukegan, and North Chicago, Lake County, Illinois

Field Sample ID	ROW-1(0-3)-010815	ROW-4(0-3)-011515	ROW-5(0-3)-011515	ROW-7(0-3)-011515	ROW-9(0-3)-011615	Soil Reference Concentrations ^A
Sample Date	1/8/2015	1/15/2015	1/15/2015	1/15/2015	1/16/2015	
Location ID	ROW-1	ROW-4	ROW-5	ROW-7	ROW-9	
Depth	0 - 3	0 - 3	0 - 3	0 - 3	0 - 3	
ISGS Site Number	2668A-1	2668A-1	2668A-1	2668A-1	2668A-1	
Parameter						
Laboratory pH (s.u.)	7.87	7.47	7.89	8	7.99	<6.25,>9.0
VOCs (ug/kg)						
Acetone	ND	25	45	130	56	25000
Methyl ethyl ketone	ND	ND	6.7	26	ND	---
SVOCs (ug/kg)						
2-Methylnaphthalene	ND	ND	ND	18 J	ND	---
Anthracene	ND	ND	ND	ND	ND	1.20E+07
Benzo(a)anthracene	ND	24 J	ND	64	12 J	900 / 1100 / 1800
Benzo(a)pyrene	7.7 J	23 J	ND	70	11 J	90 / 1300 / 2100
Benzo(b)fluoranthene	8.3 J	43	ND	110	17 J	900 / 1500 / 2100
Benzo(g,h,i)perylene	ND	30 J	ND	85	14 J	---
Benzo(k)fluoranthene	ND	22 J	ND	43	ND	9000
Chrysene	ND	26 J	ND	87	16 J	88000
Dibenzo(a,h)anthracene	ND	7.6 J	ND	31 J	ND	90 / 200 / 420
Di-N-Octyl phthalate	ND	ND	ND	ND	ND	1600000
Fluoranthene	10 J	15 J	ND	100	23 J	3100000
Indeno(1,2,3-cd)pyrene	ND	22 J	ND	58	ND	900 / 900 / 1600
Naphthalene, SVOC	ND	ND	ND	9.6 J	ND	1800
Phenanthrene	ND	ND	ND	55	14 J	---
Pyrene	9.4 J	53	8 J	140	22 J	2300000
Total Metals (mg/kg)						
Arsenic, Total	4.4	5.9	8.2	7.4	6.8 J+	11.3 / 13
Barium, Total	38	85	57	64	64 J	1500
Beryllium, Total	0.47	1.1	0.7	0.65	0.69	22
Cadmium, Total	0.17	ND	ND	0.15 J-	0.087 J	5.2
Calcium, Total	100000	33000 J	35000 J	46000 J	26000 J-	---
Chromium, Total	13	27	19	17	18	21
Cobalt, Total	9.3	10	10	9.8	11	20
Copper, Total	16	57	22	22	19 J	2900
Iron, Total	13000 B	23000 J+	20000 J+	17000 J+	19000 J+	15000 / 15900
Lead, Total	8.7	58 J	13 J	55 J	27 J	107
Magnesium, Total	45000	23000 J	22000 J	24000 J	15000 J-	325000
Manganese, Total	370	440 J	480 J	550 J	520 J	630 / 636
Mercury, Total	0.016 J	0.038	0.017 J	0.024	0.041	0.89
Nickel, Total	23	31	26	20	22	100
Potassium, Total	2200	3900 J+	2800 J+	2600 J+	2400 J+	---
Selenium, Total	ND	ND	ND	ND	ND	1.3
Sodium, Total	400	1300	1300	1300	1600	---
Thallium, Total	ND	0.5 J	0.68	0.56 J	0.76	2.6
Vanadium, Total	16	30	24	22	24	550
Zinc, Total	43 B	210 J-	47 J-	65 J-	51 J	5100
TCLP Metals (mg/l)						
Arsenic, TCLP	ND	ND	ND	ND	0.011 J	0.05
Barium, TCLP	0.13 J	0.4 J	0.36 J	0.51	0.56	2
Cadmium, TCLP	ND	ND	ND	ND	0.0021 J	0.005
Cobalt, TCLP	ND	ND	ND	0.013 J	0.043	1
Copper, TCLP	ND	0.048	0.014 J	ND	0.091	0.65
Iron, TCLP	ND	ND	ND	ND	1.7	5
Lead, TCLP	ND	0.0092	ND	0.012	0.025	0.0075
Manganese, TCLP	1.1	4.8 J+	2.6 J+	8.1 J+	12	0.15
Nickel, TCLP	0.012 J	0.011 J	ND	0.011 J	0.024 J	0.1
Zinc, TCLP	ND	0.067 J	0.049 J	0.026 J	0.1	5

Summary Table of ISGS Site No. 2668A-1
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 346: US Route 41 (Skokie Highway) from IL Route 21 to West Park Avenue
Gurnee, Park City, Waukegan, and North Chicago, Lake County, Illinois

Field Sample ID	ROW-1(0-3)-010815	ROW-4(0-3)-011515	ROW-5(0-3)-011515	ROW-7(0-3)-011515	ROW-9(0-3)-011615	Soil Reference Concentrations^A
Sample Date	1/8/2015	1/15/2015	1/15/2015	1/15/2015	1/16/2015	
Location ID	ROW-1	ROW-4	ROW-5	ROW-7	ROW-9	
Depth	0 - 3	0 - 3	0 - 3	0 - 3	0 - 3	
ISGS Site Number	2668A-1	2668A-1	2668A-1	2668A-1	2668A-1	
Parameter						
SPLP Metals (mg/l)						
Arsenic, SPLP	ND	ND	0.039 J	0.022 J	0.052	0.05
Barium, SPLP	ND	0.063 J	0.39 J	0.25 J	0.63	2
Beryllium, SPLP	ND	ND	0.0047	ND	0.007	0.004
Chromium, SPLP	ND	0.012 J	0.11	0.068	0.17	0.1
Cobalt, SPLP	ND	ND	0.045	0.027	0.06	1
Copper, SPLP	ND	0.058	0.17	0.085	0.21	0.65
Iron, SPLP	ND	4 J+	110 J+	66 J+	160	5
Lead, SPLP	ND	0.012	0.064	0.16	0.21	0.0075
Manganese, SPLP	ND	0.065	1.3	0.83	1.5	0.15
Nickel, SPLP	ND	ND	0.12	0.071	0.17	0.1
Zinc, SPLP	ND	0.061 J	0.31	0.21	0.4	5

Summary Table of ISGS Site No. 2668A-1
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 346: US Route 41 (Skokie Highway) from IL Route 21 to West Park Avenue
Gurnee, Park City, Waukegan, and North Chicago, Lake County, Illinois

Field Sample ID	ROW-10(0-3)-011615	ROW-11(0-3)-011615	ROW-12(0-3)-011615	ROW-13(0-3)-011515	ROW-14(0-3)-010815	Soil Reference Concentrations ^A
Sample Date	1/16/2015	1/16/2015	1/16/2015	1/16/2015	1/8/2015	
Location ID	ROW-10	ROW-11	ROW-12	ROW-13	ROW-14	
Depth	0 - 3	0 - 3	0 - 3	0 - 3	0 - 3	
ISGS Site Number	2668A-1	2668A-1	2668A-1	2668A-1	2668A-1	
Parameter						
Laboratory pH (s.u.)	7.54	7.76	7.98	8.82	8.02	<6.25,>9.0
VOCs (ug/kg)						
Acetone	36	190	86	ND	ND	25000
Methyl ethyl ketone	ND	36	ND	ND	ND	---
SVOCs (ug/kg)						
2-Methylnaphthalene	ND	ND	ND	ND	ND	---
Anthracene	9 J	ND	8.1 J	ND	ND	1.20E+07
Benzo(a)anthracene	33 J	20 J	29 J	ND	ND	900 / 1100 / 1800
Benzo(a)pyrene	34 J	14 J	25 J	ND	10 J	90 / 1300 / 2100
Benzo(b)fluoranthene	50	22 J	36 J	8.3 J	12 J	900 / 1500 / 2100
Benzo(g,h,i)perylene	38	13 J	20 J	ND	ND	---
Benzo(k)fluoranthene	20 J	ND	18 J	ND	ND	9000
Chrysene	42	22 J	36 J	ND	ND	88000
Dibenzo(a,h)anthracene	8.3 J	ND	ND	ND	ND	90 / 200 / 420
Di-N-Octyl phthalate	ND	ND	ND	ND	ND	1600000
Fluoranthene	59	37 J	69	ND	7.8 J	3100000
Indeno(1,2,3-cd)pyrene	26 J	9.8 J	15 J	ND	ND	900 / 900 / 1600
Naphthalene, SVOC	ND	ND	ND	ND	ND	1800
Phenanthrene	43	20 J	47	ND	ND	---
Pyrene	62	28 J	54	ND	13 J	2300000
Total Metals (mg/kg)						
Arsenic, Total	6 J+	6.1 J+	6.7 J+	6	5.2	11.3 / 13
Barium, Total	69 J	77 J	73 J	44	26	1500
Beryllium, Total	0.64	0.59	0.64	0.58	0.57	22
Cadmium, Total	0.13	0.29	0.3	ND	0.17	5.2
Calcium, Total	15000 J-	24000 J-	17000 J-	75000 J	75000	---
Chromium, Total	17	15	16	17	14	21
Cobalt, Total	10	9.1	7.4	5.6	10	20
Copper, Total	19 J	19 J	24 J	20	19	2900
Iron, Total	17000 J+	16000 J+	16000 J+	17000 J+	16000 B	15000 / 15900
Lead, Total	61 J	49 J	33 J	8.3 J	12	107
Magnesium, Total	9500 J-	14000 J-	11000 J-	32000 J	33000	325000
Manganese, Total	430 J	590 J	270 J	370 J	360	630 / 636
Mercury, Total	0.036	0.096	0.042	0.016 J	0.023	0.89
Nickel, Total	18	18	16	20	28	100
Potassium, Total	1800 J+	1900 J+	1700 J+	3300 J+	2400	---
Selenium, Total	0.4 J	ND	ND	ND	ND	1.3
Sodium, Total	1400	1000	1500	1500	620	---
Thallium, Total	0.69	0.72	0.44 J	0.47 J	ND	2.6
Vanadium, Total	23	20	23	20	17	550
Zinc, Total	67 J	110 J	79 J	39 J-	57 B	5100
TCLP Metals (mg/l)						
Arsenic, TCLP	ND	0.014 J	0.011 J	ND	ND	0.05
Barium, TCLP	0.54	0.61	0.65	0.41 J	0.28 J	2
Cadmium, TCLP	0.0026 J	0.0025 J	0.0029 J	ND	ND	0.005
Cobalt, TCLP	0.05	0.031	0.017 J	ND	ND	1
Copper, TCLP	0.01 J	0.071	0.038	0.034	ND	0.65
Iron, TCLP	1.2	0.51	1	0.27	ND	5
Lead, TCLP	0.023	0.019	0.017	ND	ND	0.0075
Manganese, TCLP	13	12	5.4	0.58 J+	1.3	0.15
Nickel, TCLP	0.02 J	0.011 J	0.014 J	ND	0.011 J	0.1
Zinc, TCLP	0.097 J	0.2	0.13	0.049 J	ND	5

Summary Table of ISGS Site No. 2668A-1
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 346: US Route 41 (Skokie Highway) from IL Route 21 to West Park Avenue
Gurnee, Park City, Waukegan, and North Chicago, Lake County, Illinois

Field Sample ID	ROW-10(0-3)-011615	ROW-11(0-3)-011615	ROW-12(0-3)-011615	ROW-13(0-3)-011515	ROW-14(0-3)-010815	Soil Reference Concentrations^A
Sample Date	1/16/2015	1/16/2015	1/16/2015	1/16/2015	1/8/2015	
Location ID	ROW-10	ROW-11	ROW-12	ROW-13	ROW-14	
Depth	0 - 3	0 - 3	0 - 3	0 - 3	0 - 3	
ISGS Site Number	2668A-1	2668A-1	2668A-1	2668A-1	2668A-1	
Parameter						
SPLP Metals (mg/l)						
Arsenic, SPLP	0.028 J	0.027 J	0.076	0.049 J	ND	0.05
Barium, SPLP	0.38 J	0.24 J	0.76	0.55	ND	2
Beryllium, SPLP	0.004	ND	0.0071	0.0076	ND	0.004
Chromium, SPLP	0.096	0.058	0.18	0.19	ND	0.1
Cobalt, SPLP	0.035	0.026	0.061	0.05	ND	1
Copper, SPLP	0.15	0.12	0.31	0.21	0.012 J	0.65
Iron, SPLP	88	56	170	150 J+	0.46	5
Lead, SPLP	0.15	0.12	0.3	0.074	ND	0.0075
Manganese, SPLP	1.1	0.69	1.6	0.86	ND	0.15
Nickel, SPLP	0.084	0.057	0.14	0.19	ND	0.1
Zinc, SPLP	0.29	0.25	0.68	0.42	ND	5

Summary Table of ISGS Site No. 2668A-1
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 346: US Route 41 (Skokie Highway) from IL Route 21 to West Park Avenue
Gurnee, Park City, Waukegan, and North Chicago, Lake County, Illinois

Field Sample ID	ROW-15(0-3)-011515	ROW-16(0-3)-011515	ROW-16(0-3)-011515D	ROW-17(0-3)-011515	ROW-18(0-3)-011515	Soil Reference Concentrations ^A
Sample Date	1/16/2015	1/16/2015	1/16/2015	1/16/2015	1/16/2015	
Location ID	ROW-15	ROW-16	ROW-16	ROW-17	ROW-18	
Depth	0 - 3	0 - 3	0 - 3	0 - 3	0 - 3	
ISGS Site Number	2668A-1	2668A-1	2668A-1	2668A-1	2668A-1	
Parameter						
Laboratory pH (s.u.)	8.91	7.91	7.72	8	7.11	<6.25,>9.0
VOCs (ug/kg)						
Acetone	11	8.1	10	ND	9.1	25000
Methyl ethyl ketone	ND	ND	ND	ND	ND	---
SVOCs (ug/kg)						
2-Methylnaphthalene	15 J	21 J	24 J	ND	20 J	---
Anthracene	ND	ND	ND	ND	ND	1.20E+07
Benzo(a)anthracene	7.7 J	17 J	14 J	ND	ND	900 / 1100 / 1800
Benzo(a)pyrene	ND	21 J	18 J	ND	ND	90 / 1300 / 2100
Benzo(b)fluoranthene	14 J	33 J	32 J	ND	12 J	900 / 1500 / 2100
Benzo(g,h,i)perylene	ND	29 J	29 J	ND	ND	---
Benzo(k)fluoranthene	ND	13 J	ND	ND	ND	9000
Chrysene	20 J	26 J	27 J	12 J	20 J	88000
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND	90 / 200 / 420
Di-N-Octyl phthalate	ND	ND	ND	ND	ND	1600000
Fluoranthene	12 J	ND	ND	ND	ND	3100000
Indeno(1,2,3-cd)pyrene	ND	18 J	16 J	ND	ND	900 / 900 / 1600
Naphthalene, SVOC	ND	ND	7.7 J	ND	ND	1800
Phenanthrene	28 J	8.9 J	19 J	ND	28 J	---
Pyrene	27 J	35 J	35 J	8 J	17 J	2300000
Total Metals (mg/kg)						
Arsenic, Total	5.2	5.4	5.9	4.4	5.6	11.3 / 13
Barium, Total	60	39	47	54	42	1500
Beryllium, Total	0.66	0.63	0.62	0.63	0.65	22
Cadmium, Total	ND	ND	0.082 J	ND	ND	5.2
Calcium, Total	74000 J	76000 J	78000 J	56000 J	75000 J	---
Chromium, Total	19	18	18	18	18	21
Cobalt, Total	9.5	9	8.6	12	8.1	20
Copper, Total	20	21	23	19	21	2900
Iron, Total	17000 J+	17000 J+	17000 J+	16000 J+	16000 J+	15000 / 15900
Lead, Total	11 J	11 J	22 J	12 J	8.6 J	107
Magnesium, Total	31000 J	30000 J	34000 J	31000 J	31000 J	325000
Manganese, Total	420 J	410 J	440 J	530 J	380 J	630 / 636
Mercury, Total	0.017 J	0.013 J	0.016 J	0.015 J	0.013 J	0.89
Nickel, Total	25	24	23	31	22	100
Potassium, Total	3900 J+	3700 J+	3800 J+	3800 J+	3900 J+	---
Selenium, Total	ND	ND	ND	ND	ND	1.3
Sodium, Total	1700	740	1100	1600	800	---
Thallium, Total	0.62	0.54 J	0.61	0.7	0.55	2.6
Vanadium, Total	21	20	20	20	20	550
Zinc, Total	46 J-	46 J-	48 J-	40 J-	35 J-	5100
TCLP Metals (mg/l)						
Arsenic, TCLP	ND	ND	ND	ND	ND	0.05
Barium, TCLP	0.33 J	0.16 J	0.24 J	0.15 J	0.13 J	2
Cadmium, TCLP	ND	ND	ND	ND	ND	0.005
Cobalt, TCLP	ND	0.01 J	0.015 J	ND	ND	1
Copper, TCLP	0.016 J	0.04	0.017 J	0.024 J	0.096	0.65
Iron, TCLP	ND	ND	ND	ND	ND	5
Lead, TCLP	ND	ND	0.1	ND	0.011	0.0075
Manganese, TCLP	1.4 J+	1.4 J+	1.9 J+	1 J+	1.5 J+	0.15
Nickel, TCLP	0.019 J	0.028	0.037	ND	0.012 J	0.1
Zinc, TCLP	0.046 J	0.052 J	0.046 J	0.042 J	0.077 J	5

Summary Table of ISGS Site No. 2668A-1
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 346: US Route 41 (Skokie Highway) from IL Route 21 to West Park Avenue
Gurnee, Park City, Waukegan, and North Chicago, Lake County, Illinois

Field Sample ID	ROW-15(0-3)-011515	ROW-16(0-3)-011515	ROW-16(0-3)-011515D	ROW-17(0-3)-011515	ROW-18(0-3)-011515	Soil Reference Concentrations^A
Sample Date	1/16/2015	1/16/2015	1/16/2015	1/16/2015	1/16/2015	
Location ID	ROW-15	ROW-16	ROW-16	ROW-17	ROW-18	
Depth	0 - 3	0 - 3	0 - 3	0 - 3	0 - 3	
ISGS Site Number	2668A-1	2668A-1	2668A-1	2668A-1	2668A-1	
Parameter						
SPLP Metals (mg/l)						
Arsenic, SPLP	0.03 J	ND	ND	ND	ND	0.05
Barium, SPLP	0.4 J	ND	ND	ND	ND	2
Beryllium, SPLP	0.0067	ND	ND	ND	ND	0.004
Chromium, SPLP	0.16	ND	ND	ND	ND	0.1
Cobalt, SPLP	0.078	ND	ND	ND	ND	1
Copper, SPLP	0.21	0.041	0.058	0.032	0.012 J	0.65
Iron, SPLP	110 J+	0.35 J	0.68 J	1.7 J+	ND	5
Lead, SPLP	0.08	ND	0.0084	ND	ND	0.0075
Manganese, SPLP	1.2	0.034	0.041	0.033	0.057	0.15
Nickel, SPLP	0.19	ND	ND	ND	ND	0.1
Zinc, SPLP	0.32	0.043 J	0.052 J	0.046 J	0.029 J	5

Summary Table of ISGS Site No. 2668A-1
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 346: US Route 41 (Skokie Highway) from IL Route 21 to West Park Avenue
Gurnee, Park City, Waukegan, and North Chicago, Lake County, Illinois

Field Sample ID	ROW-19(0-3)-011515	ROW-20(0-3)-011515	Soil Reference Concentrations ^A
Sample Date	1/16/2015	1/16/2015	
Location ID	ROW-19	ROW-20	
Depth	0 - 3	0 - 3	
ISGS Site Number	2668A-1	2668A-1	
Parameter			
Laboratory pH (s.u.)	7.34	8.51	<6.25,>9.0
VOCs (ug/kg)			
Acetone	12	12	25000
Methyl ethyl ketone	ND	ND	---
SVOCs (ug/kg)			
2-Methylnaphthalene	ND	ND	---
Anthracene	ND	ND	1.20E+07
Benzo(a)anthracene	ND	ND	900 / 1100 / 1800
Benzo(a)pyrene	ND	ND	90 / 1300 / 2100
Benzo(b)fluoranthene	ND	ND	900 / 1500 / 2100
Benzo(g,h,i)perylene	ND	ND	---
Benzo(k)fluoranthene	ND	ND	9000
Chrysene	15 J	10 J	88000
Dibenzo(a,h)anthracene	ND	ND	90 / 200 / 420
Di-N-Octyl phthalate	ND	71 J	1600000
Fluoranthene	ND	ND	3100000
Indeno(1,2,3-cd)pyrene	ND	ND	900 / 900 / 1600
Naphthalene, SVOC	ND	ND	1800
Phenanthrene	25 J	10 J	---
Pyrene	15 J	9.7 J	2300000
Total Metals (mg/kg)			
Arsenic, Total	5.5	5.5	11.3 / 13
Barium, Total	45	39	1500
Beryllium, Total	0.62	0.59	22
Cadmium, Total	ND	0.038 J	5.2
Calcium, Total	78000 J	76000 J	---
Chromium, Total	18	17	21
Cobalt, Total	9	5.9	20
Copper, Total	20	20	2900
Iron, Total	17000 J+	16000 J+	15000 / 15900
Lead, Total	8.8 J	9.1 J	107
Magnesium, Total	30000 J	31000 J	325000
Manganese, Total	410 J	360 J	630 / 636
Mercury, Total	0.014 J	0.012 J	0.89
Nickel, Total	24	21	100
Potassium, Total	3700 J+	3500 J+	---
Selenium, Total	ND	ND	1.3
Sodium, Total	1000	1900	---
Thallium, Total	0.76	0.37 J	2.6
Vanadium, Total	20	20	550
Zinc, Total	38 J-	38 J-	5100
TCLP Metals (mg/l)			
Arsenic, TCLP	ND	ND	0.05
Barium, TCLP	0.21 J	0.42 J	2
Cadmium, TCLP	ND	ND	0.005
Cobalt, TCLP	ND	ND	1
Copper, TCLP	0.018 J	0.022 J	0.65
Iron, TCLP	ND	ND	5
Lead, TCLP	ND	ND	0.0075
Manganese, TCLP	1.3 J+	0.92 J+	0.15
Nickel, TCLP	0.024 J	ND	0.1
Zinc, TCLP	0.03 J	0.15	5

Summary Table of ISGS Site No. 2668A-1
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 346: US Route 41 (Skokie Highway) from IL Route 21 to West Park Avenue
Gurnee, Park City, Waukegan, and North Chicago, Lake County, Illinois

Field Sample ID	ROW-19(0-3)-011515	ROW-20(0-3)-011515	Soil Reference Concentrations ^A
Sample Date	1/16/2015	1/16/2015	
Location ID	ROW-19	ROW-20	
Depth	0 - 3	0 - 3	
ISGS Site Number	2668A-1	2668A-1	
Parameter			
SPLP Metals (mg/l)			
Arsenic, SPLP	ND	0.06	0.05
Barium, SPLP	0.063 J	0.52	2
Beryllium, SPLP	ND	0.0071	0.004
Chromium, SPLP	ND	0.17	0.1
Cobalt, SPLP	ND	0.048	1
Copper, SPLP	0.039	0.24	0.65
Iron, SPLP	0.98 J+	150 J+	5
Lead, SPLP	ND	0.11	0.0075
Manganese, SPLP	0.089	0.93	0.15
Nickel, SPLP	ND	0.18	0.1
Zinc, SPLP	0.055 J	0.47	5

Notes:

--- - not applicable or value not available.

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

B - Constituent detected in investigative and blank sample.

ND - Constituent not detected above the reporting limit.

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: 500-90586-1
Client Project/Site: IDOT - Lake County - WO 001

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

Attn: Mr. S. Babusukumar



Authorized for release by:
1/19/2015 11:35:13 AM

Richard Wright, Senior Project Manager
(708)534-5200
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www.testamericainc.com

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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 - Lake County - WO 001

TestAmerica Job ID: 500-90586-1

Client Sample ID: ROW-1(0-3)-010815

Lab Sample ID: 500-90586-1

Date Collected: 01/08/15 11:30

Matrix: Solid

Date Received: 01/09/15 12:00

Percent Solids: 87.7

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.7		5.7	2.5	ug/Kg	*		01/12/15 10:20	1
Benzene	<5.7		5.7	0.78	ug/Kg	*		01/12/15 10:20	1
Bromodichloromethane	<5.7		5.7	0.98	ug/Kg	*		01/12/15 10:20	1
Bromoform	<5.7		5.7	1.3	ug/Kg	*		01/12/15 10:20	1
Bromomethane	<5.7		5.7	1.7	ug/Kg	*		01/12/15 10:20	1
Carbon disulfide	<5.7		5.7	0.85	ug/Kg	*		01/12/15 10:20	1
Carbon tetrachloride	<5.7		5.7	1.0	ug/Kg	*		01/12/15 10:20	1
Chlorobenzene	<5.7		5.7	0.58	ug/Kg	*		01/12/15 10:20	1
Chloroethane	<5.7		5.7	1.6	ug/Kg	*		01/12/15 10:20	1
Chloroform	<5.7		5.7	0.66	ug/Kg	*		01/12/15 10:20	1
Chloromethane	<5.7		5.7	1.2	ug/Kg	*		01/12/15 10:20	1
cis-1,2-Dichloroethene	<5.7		5.7	0.81	ug/Kg	*		01/12/15 10:20	1
cis-1,3-Dichloropropene	<5.7		5.7	0.75	ug/Kg	*		01/12/15 10:20	1
Dibromochloromethane	<5.7		5.7	0.99	ug/Kg	*		01/12/15 10:20	1
1,1-Dichloroethane	<5.7		5.7	0.90	ug/Kg	*		01/12/15 10:20	1
1,2-Dichloroethane	<5.7		5.7	0.85	ug/Kg	*		01/12/15 10:20	1
1,1,1-Dichloroethane	<5.7		5.7	0.92	ug/Kg	*		01/12/15 10:20	1
1,2-Dichloropropane	<5.7		5.7	0.87	ug/Kg	*		01/12/15 10:20	1
1,3-Dichloropropene, Total	<5.7		5.7	0.75	ug/Kg	*		01/12/15 10:20	1
Ethylbenzene	<5.7		5.7	1.2	ug/Kg	*		01/12/15 10:20	1
2-Hexanone	<5.7		5.7	1.6	ug/Kg	*		01/12/15 10:20	1
Methylene Chloride	<5.7		5.7	1.5	ug/Kg	*		01/12/15 10:20	1
Methyl Ethyl Ketone	<5.7		5.7	2.1	ug/Kg	*		01/12/15 10:20	1
methyl isobutyl ketone	<5.7		5.7	1.5	ug/Kg	*		01/12/15 10:20	1
Methyl tert-butyl ether	<5.7		5.7	0.94	ug/Kg	*		01/12/15 10:20	1
Styrene	<5.7		5.7	0.75	ug/Kg	*		01/12/15 10:20	1
1,1,1,2-Tetrachloroethane	<5.7		5.7	1.2	ug/Kg	*		01/12/15 10:20	1
Tetrachloroethene	<5.7		5.7	0.87	ug/Kg	*		01/12/15 10:20	1
Toluene	<5.7		5.7	0.80	ug/Kg	*		01/12/15 10:20	1
trans-1,2-Dichloroethene	<5.7		5.7	0.78	ug/Kg	*		01/12/15 10:20	1
trans-1,3-Dichloropropene	<5.7		5.7	1.0	ug/Kg	*		01/12/15 10:20	1
1,1,1-Trichloroethane	<5.7		5.7	0.85	ug/Kg	*		01/12/15 10:20	1
1,1,2-Trichloroethane	<5.7		5.7	0.78	ug/Kg	*		01/12/15 10:20	1
Trichloroethene	<5.7		5.7	0.94	ug/Kg	*		01/12/15 10:20	1
Vinyl chloride	<5.7		5.7	1.2	ug/Kg	*		01/12/15 10:20	1
Xylenes, Total	<11		11	0.52	ug/Kg	*		01/12/15 10:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122		01/12/15 10:20	1
Dibromofluoromethane	105		75 - 120		01/12/15 10:20	1
1,2-Dichloroethane-d4 (Surr)	125		70 - 134		01/12/15 10:20	1
Toluene-d8 (Surr)	100		75 - 122		01/12/15 10:20	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	*	01/09/15 17:06	01/12/15 12:49	1
1,2-Dichlorobenzene	<180		180	43	ug/Kg	*	01/09/15 17:06	01/12/15 12:49	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	*	01/09/15 17:06	01/12/15 12:49	1
1,4-Dichlorobenzene	<180		180	46	ug/Kg	*	01/09/15 17:06	01/12/15 12:49	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	*	01/09/15 17:06	01/12/15 12:49	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90586-1

Client Sample ID: ROW-1(0-3)-010815

Lab Sample ID: 500-90586-1

Date Collected: 01/08/15 11:30

Matrix: Solid

Date Received: 01/09/15 12:00

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	<360		360	83	ug/Kg	☼	01/09/15 17:06	01/12/15 12:49	1
2,4,6-Trichlorophenol	<360		360	120	ug/Kg	☼	01/09/15 17:06	01/12/15 12:49	1
2,4-Dichlorophenol	<360		360	86	ug/Kg	☼	01/09/15 17:06	01/12/15 12:49	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	01/09/15 17:06	01/12/15 12:49	1
2,4-Dinitrophenol	<730		730	640	ug/Kg	☼	01/09/15 17:06	01/12/15 12:49	1
2,4-Dinitrotoluene	<180		180	57	ug/Kg	☼	01/09/15 17:06	01/12/15 12:49	1
2,6-Dinitrotoluene	<180		180	71	ug/Kg	☼	01/09/15 17:06	01/12/15 12:49	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	01/09/15 17:06	01/12/15 12:49	1
2-Chlorophenol	<180		180	62	ug/Kg	☼	01/09/15 17:06	01/12/15 12:49	1
2-Methylnaphthalene	<36		36	6.7	ug/Kg	☼	01/09/15 17:06	01/12/15 12:49	1
2-Methylphenol	<180		180	58	ug/Kg	☼	01/09/15 17:06	01/12/15 12:49	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	01/09/15 17:06	01/12/15 12:49	1
2-Nitrophenol	<360		360	85	ug/Kg	☼	01/09/15 17:06	01/12/15 12:49	1
3 & 4 Methylphenol	<180		180	60	ug/Kg	☼	01/09/15 17:06	01/12/15 12:49	1
3,3'-Dichlorobenzidine	<180		180	51	ug/Kg	☼	01/09/15 17:06	01/12/15 12:49	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	01/09/15 17:06	01/12/15 12:49	1
4,6-Dinitro-2-methylphenol	<360		360	290	ug/Kg	☼	01/09/15 17:06	01/12/15 12:49	1
4-Bromophenyl phenyl ether	<180		180	48	ug/Kg	☼	01/09/15 17:06	01/12/15 12:49	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	01/09/15 17:06	01/12/15 12:49	1
4-Chloroaniline	<730		730	170	ug/Kg	☼	01/09/15 17:06	01/12/15 12:49	1
4-Chlorophenyl phenyl ether	<180		180	42	ug/Kg	☼	01/09/15 17:06	01/12/15 12:49	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	01/09/15 17:06	01/12/15 12:49	1
4-Nitrophenol	<730		730	340	ug/Kg	☼	01/09/15 17:06	01/12/15 12:49	1
Acenaphthene	<36		36	6.5	ug/Kg	☼	01/09/15 17:06	01/12/15 12:49	1
Acenaphthylene	<36		36	4.8	ug/Kg	☼	01/09/15 17:06	01/12/15 12:49	1
Anthracene	<36		36	6.0	ug/Kg	☼	01/09/15 17:06	01/12/15 12:49	1
Benzo[a]anthracene	<36		36	4.9	ug/Kg	☼	01/09/15 17:06	01/12/15 12:49	1
Benzo[a]pyrene	7.7 J		36	7.0	ug/Kg	☼	01/09/15 17:06	01/12/15 12:49	1
Benzo[b]fluoranthene	8.3 J		36	7.8	ug/Kg	☼	01/09/15 17:06	01/12/15 12:49	1
Benzo[g,h,i]perylene	<36		36	12	ug/Kg	☼	01/09/15 17:06	01/12/15 12:49	1
Benzo[k]fluoranthene	<36		36	11	ug/Kg	☼	01/09/15 17:06	01/12/15 12:49	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	01/09/15 17:06	01/12/15 12:49	1
Bis(2-chloroethyl)ether	<180		180	54	ug/Kg	☼	01/09/15 17:06	01/12/15 12:49	1
Bis(2-ethylhexyl) phthalate	<180		180	66	ug/Kg	☼	01/09/15 17:06	01/12/15 12:49	1
Butyl benzyl phthalate	<180		180	69	ug/Kg	☼	01/09/15 17:06	01/12/15 12:49	1
Carbazole	<180		180	93	ug/Kg	☼	01/09/15 17:06	01/12/15 12:49	1
Chrysene	<36		36	9.9	ug/Kg	☼	01/09/15 17:06	01/12/15 12:49	1
Dibenz(a,h)anthracene	<36		36	7.0	ug/Kg	☼	01/09/15 17:06	01/12/15 12:49	1
Dibenzofuran	<180		180	42	ug/Kg	☼	01/09/15 17:06	01/12/15 12:49	1
Diethyl phthalate	<180		180	61	ug/Kg	☼	01/09/15 17:06	01/12/15 12:49	1
Dimethyl phthalate	<180		180	47	ug/Kg	☼	01/09/15 17:06	01/12/15 12:49	1
Di-n-butyl phthalate	<180		180	55	ug/Kg	☼	01/09/15 17:06	01/12/15 12:49	1
Di-n-octyl phthalate	<180		180	59	ug/Kg	☼	01/09/15 17:06	01/12/15 12:49	1
Fluoranthene	10 J		36	6.7	ug/Kg	☼	01/09/15 17:06	01/12/15 12:49	1
Fluorene	<36		36	5.1	ug/Kg	☼	01/09/15 17:06	01/12/15 12:49	1
Hexachlorobenzene	<73		73	8.4	ug/Kg	☼	01/09/15 17:06	01/12/15 12:49	1
Hexachlorobutadiene	<180		180	57	ug/Kg	☼	01/09/15 17:06	01/12/15 12:49	1
Hexachlorocyclopentadiene	<730		730	210	ug/Kg	☼	01/09/15 17:06	01/12/15 12:49	1
Hexachloroethane	<180		180	55	ug/Kg	☼	01/09/15 17:06	01/12/15 12:49	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90586-1

Client Sample ID: ROW-1(0-3)-010815

Lab Sample ID: 500-90586-1

Date Collected: 01/08/15 11:30

Matrix: Solid

Date Received: 01/09/15 12:00

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	<36		36	9.4	ug/Kg	☼	01/09/15 17:06	01/12/15 12:49	1
Isophorone	<180		180	41	ug/Kg	☼	01/09/15 17:06	01/12/15 12:49	1
Naphthalene	<36		36	5.6	ug/Kg	☼	01/09/15 17:06	01/12/15 12:49	1
Nitrobenzene	<36		36	9.0	ug/Kg	☼	01/09/15 17:06	01/12/15 12:49	1
N-Nitrosodi-n-propylamine	<180		180	44	ug/Kg	☼	01/09/15 17:06	01/12/15 12:49	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	01/09/15 17:06	01/12/15 12:49	1
Pentachlorophenol	<730		730	580	ug/Kg	☼	01/09/15 17:06	01/12/15 12:49	1
Phenanthrene	<36		36	5.0	ug/Kg	☼	01/09/15 17:06	01/12/15 12:49	1
Phenol	<180		180	80	ug/Kg	☼	01/09/15 17:06	01/12/15 12:49	1
Pyrene	9.4	J	36	7.2	ug/Kg	☼	01/09/15 17:06	01/12/15 12:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	67		35 - 137	01/09/15 17:06	01/12/15 12:49	1
2-Fluorobiphenyl	45		25 - 119	01/09/15 17:06	01/12/15 12:49	1
2-Fluorophenol	53		25 - 110	01/09/15 17:06	01/12/15 12:49	1
Nitrobenzene-d5	46		25 - 115	01/09/15 17:06	01/12/15 12:49	1
Phenol-d5	50		31 - 110	01/09/15 17:06	01/12/15 12:49	1
Terphenyl-d14	70		36 - 134	01/09/15 17:06	01/12/15 12:49	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		01/13/15 09:00	01/13/15 16:51	1
Barium	0.13	J	0.50	0.050	mg/L		01/13/15 09:00	01/13/15 16:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/13/15 09:00	01/13/15 16:51	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/13/15 09:00	01/13/15 16:51	1
Chromium	<0.025		0.025	0.010	mg/L		01/13/15 09:00	01/13/15 16:51	1
Cobalt	<0.025		0.025	0.010	mg/L		01/13/15 09:00	01/13/15 16:51	1
Copper	<0.025		0.025	0.010	mg/L		01/13/15 09:00	01/13/15 16:51	1
Iron	<0.20		0.20	0.20	mg/L		01/13/15 09:00	01/13/15 16:51	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/13/15 09:00	01/13/15 16:51	1
Manganese	1.1		0.025	0.010	mg/L		01/13/15 09:00	01/13/15 16:51	1
Nickel	0.012	J	0.025	0.010	mg/L		01/13/15 09:00	01/13/15 16:51	1
Selenium	<0.050		0.050	0.020	mg/L		01/13/15 09:00	01/13/15 16:51	1
Silver	<0.025		0.025	0.010	mg/L		01/13/15 09:00	01/13/15 16:51	1
Zinc	<0.10		0.10	0.020	mg/L		01/13/15 09:00	01/13/15 16:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/12/15 16:00	01/13/15 14:30	1
Barium	<0.50		0.50	0.050	mg/L		01/12/15 16:00	01/13/15 14:30	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/12/15 16:00	01/13/15 14:30	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/12/15 16:00	01/13/15 14:30	1
Chromium	<0.025		0.025	0.010	mg/L		01/12/15 16:00	01/13/15 14:30	1
Cobalt	<0.025		0.025	0.010	mg/L		01/12/15 16:00	01/13/15 14:30	1
Copper	<0.025		0.025	0.010	mg/L		01/12/15 16:00	01/13/15 14:30	1
Iron	<0.20		0.20	0.20	mg/L		01/12/15 16:00	01/13/15 14:30	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/12/15 16:00	01/13/15 14:30	1
Manganese	<0.025		0.025	0.010	mg/L		01/12/15 16:00	01/13/15 14:30	1
Nickel	<0.025		0.025	0.010	mg/L		01/12/15 16:00	01/13/15 14:30	1
Selenium	<0.050		0.050	0.020	mg/L		01/12/15 16:00	01/13/15 14:30	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90586-1

Client Sample ID: ROW-1(0-3)-010815

Lab Sample ID: 500-90586-1

Date Collected: 01/08/15 11:30

Matrix: Solid

Date Received: 01/09/15 12:00

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		01/12/15 16:00	01/13/15 14:30	1
Zinc	<0.10		0.10	0.020	mg/L		01/12/15 16:00	01/13/15 14:30	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	☼	01/11/15 17:38	01/12/15 16:56	1
Arsenic	4.4		0.54	0.25	mg/Kg	☼	01/11/15 17:38	01/12/15 16:56	1
Barium	38		0.54	0.098	mg/Kg	☼	01/11/15 17:38	01/12/15 16:56	1
Beryllium	0.47		0.22	0.047	mg/Kg	☼	01/11/15 17:38	01/12/15 16:56	1
Cadmium	0.17		0.11	0.031	mg/Kg	☼	01/11/15 17:38	01/12/15 16:56	1
Calcium	100000		110	35	mg/Kg	☼	01/11/15 17:38	01/13/15 13:19	10
Chromium	13		0.54	0.092	mg/Kg	☼	01/11/15 17:38	01/12/15 16:56	1
Cobalt	9.3		0.27	0.061	mg/Kg	☼	01/11/15 17:38	01/12/15 16:56	1
Copper	16		0.54	0.12	mg/Kg	☼	01/11/15 17:38	01/12/15 16:56	1
Iron	13000	B	11	4.1	mg/Kg	☼	01/11/15 17:38	01/12/15 16:56	1
Lead	8.7		0.27	0.13	mg/Kg	☼	01/11/15 17:38	01/12/15 16:56	1
Magnesium	45000		5.4	2.2	mg/Kg	☼	01/11/15 17:38	01/12/15 16:56	1
Manganese	370		0.54	0.11	mg/Kg	☼	01/11/15 17:38	01/12/15 16:56	1
Nickel	23		0.54	0.15	mg/Kg	☼	01/11/15 17:38	01/12/15 16:56	1
Potassium	2200		27	4.4	mg/Kg	☼	01/11/15 17:38	01/12/15 16:56	1
Selenium	<0.54		0.54	0.27	mg/Kg	☼	01/11/15 17:38	01/12/15 16:56	1
Silver	<0.27		0.27	0.063	mg/Kg	☼	01/11/15 17:38	01/12/15 16:56	1
Sodium	400		54	7.1	mg/Kg	☼	01/11/15 17:38	01/12/15 16:56	1
Thallium	<0.54		0.54	0.26	mg/Kg	☼	01/11/15 17:38	01/12/15 16:56	1
Vanadium	16		0.27	0.079	mg/Kg	☼	01/11/15 17:38	01/12/15 16:56	1
Zinc	43	B	1.1	0.34	mg/Kg	☼	01/11/15 17:38	01/12/15 16:56	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		01/12/15 11:30	01/13/15 09:31	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		01/12/15 11:30	01/13/15 09:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	16	J	18	6.9	ug/Kg	☼	01/12/15 13:30	01/13/15 09:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.87		0.200	0.200	SU			01/13/15 12:16	1

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90586-1

Client Sample ID: ROW-14(0-3)-010815

Lab Sample ID: 500-90586-3

Date Collected: 01/08/15 12:55

Matrix: Solid

Date Received: 01/09/15 12:00

Percent Solids: 85.1

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.9		5.9	2.5	ug/Kg	*		01/12/15 11:56	1
Benzene	<5.9		5.9	0.80	ug/Kg	*		01/12/15 11:56	1
Bromodichloromethane	<5.9		5.9	1.0	ug/Kg	*		01/12/15 11:56	1
Bromoform	<5.9		5.9	1.4	ug/Kg	*		01/12/15 11:56	1
Bromomethane	<5.9		5.9	1.8	ug/Kg	*		01/12/15 11:56	1
Carbon disulfide	<5.9		5.9	0.88	ug/Kg	*		01/12/15 11:56	1
Carbon tetrachloride	<5.9		5.9	1.1	ug/Kg	*		01/12/15 11:56	1
Chlorobenzene	<5.9		5.9	0.60	ug/Kg	*		01/12/15 11:56	1
Chloroethane	<5.9		5.9	1.6	ug/Kg	*		01/12/15 11:56	1
Chloroform	<5.9		5.9	0.68	ug/Kg	*		01/12/15 11:56	1
Chloromethane	<5.9		5.9	1.2	ug/Kg	*		01/12/15 11:56	1
cis-1,2-Dichloroethene	<5.9		5.9	0.83	ug/Kg	*		01/12/15 11:56	1
cis-1,3-Dichloropropene	<5.9		5.9	0.77	ug/Kg	*		01/12/15 11:56	1
Dibromochloromethane	<5.9		5.9	1.0	ug/Kg	*		01/12/15 11:56	1
1,1-Dichloroethane	<5.9		5.9	0.93	ug/Kg	*		01/12/15 11:56	1
1,2-Dichloroethane	<5.9		5.9	0.87	ug/Kg	*		01/12/15 11:56	1
1,1-Dichloroethene	<5.9		5.9	0.95	ug/Kg	*		01/12/15 11:56	1
1,2-Dichloropropane	<5.9		5.9	0.89	ug/Kg	*		01/12/15 11:56	1
1,3-Dichloropropene, Total	<5.9		5.9	0.77	ug/Kg	*		01/12/15 11:56	1
Ethylbenzene	<5.9		5.9	1.2	ug/Kg	*		01/12/15 11:56	1
2-Hexanone	<5.9		5.9	1.7	ug/Kg	*		01/12/15 11:56	1
Methylene Chloride	<5.9		5.9	1.6	ug/Kg	*		01/12/15 11:56	1
Methyl Ethyl Ketone	<5.9		5.9	2.1	ug/Kg	*		01/12/15 11:56	1
methyl isobutyl ketone	<5.9		5.9	1.5	ug/Kg	*		01/12/15 11:56	1
Methyl tert-butyl ether	<5.9		5.9	0.97	ug/Kg	*		01/12/15 11:56	1
Styrene	<5.9		5.9	0.77	ug/Kg	*		01/12/15 11:56	1
1,1,1,2-Tetrachloroethane	<5.9		5.9	1.2	ug/Kg	*		01/12/15 11:56	1
Tetrachloroethene	<5.9		5.9	0.90	ug/Kg	*		01/12/15 11:56	1
Toluene	<5.9		5.9	0.82	ug/Kg	*		01/12/15 11:56	1
trans-1,2-Dichloroethene	<5.9		5.9	0.81	ug/Kg	*		01/12/15 11:56	1
trans-1,3-Dichloropropene	<5.9		5.9	1.1	ug/Kg	*		01/12/15 11:56	1
1,1,1-Trichloroethane	<5.9		5.9	0.88	ug/Kg	*		01/12/15 11:56	1
1,1,2-Trichloroethane	<5.9		5.9	0.80	ug/Kg	*		01/12/15 11:56	1
Trichloroethene	<5.9		5.9	0.97	ug/Kg	*		01/12/15 11:56	1
Vinyl chloride	<5.9		5.9	1.2	ug/Kg	*		01/12/15 11:56	1
Xylenes, Total	<12		12	0.53	ug/Kg	*		01/12/15 11:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 122		01/12/15 11:56	1
Dibromofluoromethane	104		75 - 120		01/12/15 11:56	1
1,2-Dichloroethane-d4 (Surr)	115		70 - 134		01/12/15 11:56	1
Toluene-d8 (Surr)	96		75 - 122		01/12/15 11:56	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	*	01/09/15 17:06	01/12/15 13:10	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	*	01/09/15 17:06	01/12/15 13:10	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	*	01/09/15 17:06	01/12/15 13:10	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	*	01/09/15 17:06	01/12/15 13:10	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	*	01/09/15 17:06	01/12/15 13:10	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90586-1

Client Sample ID: ROW-14(0-3)-010815

Lab Sample ID: 500-90586-3

Date Collected: 01/08/15 12:55

Matrix: Solid

Date Received: 01/09/15 12:00

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	☼	01/09/15 17:06	01/12/15 13:10	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	01/09/15 17:06	01/12/15 13:10	1
2,4-Dichlorophenol	<380		380	90	ug/Kg	☼	01/09/15 17:06	01/12/15 13:10	1
2,4-Dimethylphenol	<380		380	140	ug/Kg	☼	01/09/15 17:06	01/12/15 13:10	1
2,4-Dinitrophenol	<770		770	670	ug/Kg	☼	01/09/15 17:06	01/12/15 13:10	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	01/09/15 17:06	01/12/15 13:10	1
2,6-Dinitrotoluene	<190		190	75	ug/Kg	☼	01/09/15 17:06	01/12/15 13:10	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	01/09/15 17:06	01/12/15 13:10	1
2-Chlorophenol	<190		190	65	ug/Kg	☼	01/09/15 17:06	01/12/15 13:10	1
2-Methylnaphthalene	<38		38	7.0	ug/Kg	☼	01/09/15 17:06	01/12/15 13:10	1
2-Methylphenol	<190		190	61	ug/Kg	☼	01/09/15 17:06	01/12/15 13:10	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	01/09/15 17:06	01/12/15 13:10	1
2-Nitrophenol	<380		380	90	ug/Kg	☼	01/09/15 17:06	01/12/15 13:10	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	01/09/15 17:06	01/12/15 13:10	1
3,3'-Dichlorobenzidine	<190		190	53	ug/Kg	☼	01/09/15 17:06	01/12/15 13:10	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	01/09/15 17:06	01/12/15 13:10	1
4,6-Dinitro-2-methylphenol	<380		380	310	ug/Kg	☼	01/09/15 17:06	01/12/15 13:10	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	01/09/15 17:06	01/12/15 13:10	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	01/09/15 17:06	01/12/15 13:10	1
4-Chloroaniline	<770		770	180	ug/Kg	☼	01/09/15 17:06	01/12/15 13:10	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	01/09/15 17:06	01/12/15 13:10	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	01/09/15 17:06	01/12/15 13:10	1
4-Nitrophenol	<770		770	360	ug/Kg	☼	01/09/15 17:06	01/12/15 13:10	1
Acenaphthene	<38		38	6.8	ug/Kg	☼	01/09/15 17:06	01/12/15 13:10	1
Acenaphthylene	<38		38	5.0	ug/Kg	☼	01/09/15 17:06	01/12/15 13:10	1
Anthracene	<38		38	6.4	ug/Kg	☼	01/09/15 17:06	01/12/15 13:10	1
Benzo[a]anthracene	<38		38	5.1	ug/Kg	☼	01/09/15 17:06	01/12/15 13:10	1
Benzo[a]pyrene	10 J		38	7.4	ug/Kg	☼	01/09/15 17:06	01/12/15 13:10	1
Benzo[b]fluoranthene	12 J		38	8.2	ug/Kg	☼	01/09/15 17:06	01/12/15 13:10	1
Benzo[g,h,i]perylene	<38		38	12	ug/Kg	☼	01/09/15 17:06	01/12/15 13:10	1
Benzo[k]fluoranthene	<38		38	11	ug/Kg	☼	01/09/15 17:06	01/12/15 13:10	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	01/09/15 17:06	01/12/15 13:10	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	01/09/15 17:06	01/12/15 13:10	1
Bis(2-ethylhexyl) phthalate	<190		190	69	ug/Kg	☼	01/09/15 17:06	01/12/15 13:10	1
Butyl benzyl phthalate	<190		190	72	ug/Kg	☼	01/09/15 17:06	01/12/15 13:10	1
Carbazole	<190		190	98	ug/Kg	☼	01/09/15 17:06	01/12/15 13:10	1
Chrysene	<38		38	10	ug/Kg	☼	01/09/15 17:06	01/12/15 13:10	1
Dibenz(a,h)anthracene	<38		38	7.3	ug/Kg	☼	01/09/15 17:06	01/12/15 13:10	1
Dibenzofuran	<190		190	45	ug/Kg	☼	01/09/15 17:06	01/12/15 13:10	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	01/09/15 17:06	01/12/15 13:10	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	01/09/15 17:06	01/12/15 13:10	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	01/09/15 17:06	01/12/15 13:10	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	01/09/15 17:06	01/12/15 13:10	1
Fluoranthene	7.8 J		38	7.0	ug/Kg	☼	01/09/15 17:06	01/12/15 13:10	1
Fluorene	<38		38	5.3	ug/Kg	☼	01/09/15 17:06	01/12/15 13:10	1
Hexachlorobenzene	<77		77	8.8	ug/Kg	☼	01/09/15 17:06	01/12/15 13:10	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	01/09/15 17:06	01/12/15 13:10	1
Hexachlorocyclopentadiene	<770		770	220	ug/Kg	☼	01/09/15 17:06	01/12/15 13:10	1
Hexachloroethane	<190		190	58	ug/Kg	☼	01/09/15 17:06	01/12/15 13:10	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90586-1

Client Sample ID: ROW-14(0-3)-010815

Lab Sample ID: 500-90586-3

Date Collected: 01/08/15 12:55

Matrix: Solid

Date Received: 01/09/15 12:00

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	<38		38	9.9	ug/Kg	☼	01/09/15 17:06	01/12/15 13:10	1
Isophorone	<190		190	43	ug/Kg	☼	01/09/15 17:06	01/12/15 13:10	1
Naphthalene	<38		38	5.8	ug/Kg	☼	01/09/15 17:06	01/12/15 13:10	1
Nitrobenzene	<38		38	9.5	ug/Kg	☼	01/09/15 17:06	01/12/15 13:10	1
N-Nitrosodi-n-propylamine	<190		190	46	ug/Kg	☼	01/09/15 17:06	01/12/15 13:10	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	01/09/15 17:06	01/12/15 13:10	1
Pentachlorophenol	<770		770	610	ug/Kg	☼	01/09/15 17:06	01/12/15 13:10	1
Phenanthrene	<38		38	5.3	ug/Kg	☼	01/09/15 17:06	01/12/15 13:10	1
Phenol	<190		190	84	ug/Kg	☼	01/09/15 17:06	01/12/15 13:10	1
Pyrene	13	J	38	7.6	ug/Kg	☼	01/09/15 17:06	01/12/15 13:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	63		35 - 137				01/09/15 17:06	01/12/15 13:10	1
2-Fluorobiphenyl	39		25 - 119				01/09/15 17:06	01/12/15 13:10	1
2-Fluorophenol	46		25 - 110				01/09/15 17:06	01/12/15 13:10	1
Nitrobenzene-d5	38		25 - 115				01/09/15 17:06	01/12/15 13:10	1
Phenol-d5	43		31 - 110				01/09/15 17:06	01/12/15 13:10	1
Terphenyl-d14	63		36 - 134				01/09/15 17:06	01/12/15 13:10	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/13/15 09:00	01/13/15 17:01	1
Barium	0.28	J	0.50	0.050	mg/L		01/13/15 09:00	01/13/15 17:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/13/15 09:00	01/13/15 17:01	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/13/15 09:00	01/13/15 17:01	1
Chromium	<0.025		0.025	0.010	mg/L		01/13/15 09:00	01/13/15 17:01	1
Cobalt	<0.025		0.025	0.010	mg/L		01/13/15 09:00	01/13/15 17:01	1
Copper	<0.025		0.025	0.010	mg/L		01/13/15 09:00	01/13/15 17:01	1
Iron	<0.20		0.20	0.20	mg/L		01/13/15 09:00	01/13/15 17:01	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/13/15 09:00	01/13/15 17:01	1
Manganese	1.3		0.025	0.010	mg/L		01/13/15 09:00	01/13/15 17:01	1
Nickel	0.011	J	0.025	0.010	mg/L		01/13/15 09:00	01/13/15 17:01	1
Selenium	<0.050		0.050	0.020	mg/L		01/13/15 09:00	01/13/15 17:01	1
Silver	<0.025		0.025	0.010	mg/L		01/13/15 09:00	01/13/15 17:01	1
Zinc	<0.10		0.10	0.020	mg/L		01/13/15 09:00	01/13/15 17:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/12/15 16:00	01/13/15 14:57	1
Barium	<0.50		0.50	0.050	mg/L		01/12/15 16:00	01/13/15 14:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/12/15 16:00	01/13/15 14:57	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/12/15 16:00	01/13/15 14:57	1
Chromium	<0.025		0.025	0.010	mg/L		01/12/15 16:00	01/13/15 14:57	1
Cobalt	<0.025		0.025	0.010	mg/L		01/12/15 16:00	01/13/15 14:57	1
Copper	0.012	J	0.025	0.010	mg/L		01/12/15 16:00	01/13/15 14:57	1
Iron	0.46		0.20	0.20	mg/L		01/12/15 16:00	01/13/15 14:57	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/12/15 16:00	01/13/15 14:57	1
Manganese	<0.025		0.025	0.010	mg/L		01/12/15 16:00	01/13/15 14:57	1
Nickel	<0.025		0.025	0.010	mg/L		01/12/15 16:00	01/13/15 14:57	1
Selenium	<0.050		0.050	0.020	mg/L		01/12/15 16:00	01/13/15 14:57	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90586-1

Client Sample ID: ROW-14(0-3)-010815

Lab Sample ID: 500-90586-3

Date Collected: 01/08/15 12:55

Matrix: Solid

Date Received: 01/09/15 12:00

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		01/12/15 16:00	01/13/15 14:57	1
Zinc	<0.10		0.10	0.020	mg/L		01/12/15 16:00	01/13/15 14:57	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	01/11/15 17:38	01/12/15 17:07	1
Arsenic	5.2		0.55	0.25	mg/Kg	☼	01/11/15 17:38	01/12/15 17:07	1
Barium	26		0.55	0.10	mg/Kg	☼	01/11/15 17:38	01/12/15 17:07	1
Beryllium	0.57		0.22	0.048	mg/Kg	☼	01/11/15 17:38	01/12/15 17:07	1
Cadmium	0.17		0.11	0.032	mg/Kg	☼	01/11/15 17:38	01/12/15 17:07	1
Calcium	75000		110	35	mg/Kg	☼	01/11/15 17:38	01/13/15 13:27	10
Chromium	14		0.55	0.095	mg/Kg	☼	01/11/15 17:38	01/12/15 17:07	1
Cobalt	10		0.28	0.062	mg/Kg	☼	01/11/15 17:38	01/12/15 17:07	1
Copper	19		0.55	0.12	mg/Kg	☼	01/11/15 17:38	01/12/15 17:07	1
Iron	16000	B	11	4.2	mg/Kg	☼	01/11/15 17:38	01/12/15 17:07	1
Lead	12		0.28	0.14	mg/Kg	☼	01/11/15 17:38	01/12/15 17:07	1
Magnesium	33000		5.5	2.2	mg/Kg	☼	01/11/15 17:38	01/12/15 17:07	1
Manganese	360		0.55	0.11	mg/Kg	☼	01/11/15 17:38	01/12/15 17:07	1
Nickel	28		0.55	0.15	mg/Kg	☼	01/11/15 17:38	01/12/15 17:07	1
Potassium	2400		28	4.5	mg/Kg	☼	01/11/15 17:38	01/12/15 17:07	1
Selenium	<0.55		0.55	0.27	mg/Kg	☼	01/11/15 17:38	01/12/15 17:07	1
Silver	<0.28		0.28	0.064	mg/Kg	☼	01/11/15 17:38	01/12/15 17:07	1
Sodium	620		55	7.3	mg/Kg	☼	01/11/15 17:38	01/12/15 17:07	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	01/11/15 17:38	01/12/15 17:07	1
Vanadium	17		0.28	0.080	mg/Kg	☼	01/11/15 17:38	01/12/15 17:07	1
Zinc	57	B	1.1	0.35	mg/Kg	☼	01/11/15 17:38	01/12/15 17:07	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		01/12/15 11:30	01/13/15 09:35	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		01/12/15 11:30	01/13/15 09:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	23		19	7.4	ug/Kg	☼	01/12/15 13:30	01/13/15 09:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.02		0.200	0.200	SU			01/13/15 12:30	1

Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90586-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery exceeds the control limits

GC/MS Semi VOA

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

Metals

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

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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90586-1

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-15

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

Analysis Method	Prep Method	Matrix	Analyte
7470A	7470A	Solid	Mercury
8260B		Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

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Report To (optional)
Contact: S. Babusukumar
Company: Weston
Address: 300 Plaza Circle St 202
Address: Mundelein, IL 60060
Phone: (224) 864-7200
Fax:
E-Mail:

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

Chain of Custody Record

Lab Job #: 500-90586

Chain of Custody Number: _____

Page 1 of 1

Temperature °C of Cooler: 2.6

Client		Client Project #		Preservative		Parameter		Matrix		Comments	
Weston				7	7	7	7	7		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 #		Sampling		# of Containers		Matrix		Comments	
IDOT 001				Date	Time						
Project Location/State		Lab PM									
IL		D. Wright									
Sampler											
M. Strow											
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCS	SVOCS	Total Metals	TCLP/SPLP Metals	pH
1		ROW-1(0-3)-010815	1-8-15	1130	2	S	X	X	X	X	X
2		ROW-2(0-3)-010815	1-8-15	1155	2	S	X	X	X	X	X
3		ROW-14(0-3)-010815	1-8-15	1255	2	S	X	X	X	X	X
<p><i>M. Strow</i> 1-9-15</p>											

Turnaround Time Required (Business Days)

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

Requested Due Date _____

Sample Disposal

Return to Client

Disposal by Lab

Archive for _____ Months

(A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>M. Strow</u>	Company <u>Weston</u>	Date <u>1-9-15</u>	Time <u>1036</u>	Received By <u>JA</u>	Company <u>JA</u>	Date <u>1/9/15</u>	Time <u>10:36</u>
Relinquished By <u>JA</u>	Company <u>JA</u>	Date <u>1/9/15</u>	Time <u>1200</u>	Received By <u>JA</u>	Company <u>JA</u>	Date <u>1/9/15</u>	Time <u>1200</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier	<u>JA</u>
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 - W/pe
- 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: 500-90936-1
Client Project/Site: IDOT - Lake County - WO 001

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

Attn: Mr. S. Babusukumar



Authorized for release by:
1/26/2015 11:24:08 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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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
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Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90936-1

Client Sample ID: ROW-7(0-3)-011515

Lab Sample ID: 500-90936-2

Date Collected: 01/15/15 15:40

Matrix: Solid

Date Received: 01/16/15 16:00

Percent Solids: 85.1

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	130		5.9	2.5	ug/Kg	☼		01/21/15 13:45	1
Benzene	<5.9		5.9	0.81	ug/Kg	☼		01/21/15 13:45	1
Bromodichloromethane	<5.9		5.9	1.0	ug/Kg	☼		01/21/15 13:45	1
Bromoform	<5.9		5.9	1.4	ug/Kg	☼		01/21/15 13:45	1
Bromomethane	<5.9		5.9	1.8	ug/Kg	☼		01/21/15 13:45	1
Carbon disulfide	<5.9		5.9	0.88	ug/Kg	☼		01/21/15 13:45	1
Carbon tetrachloride	<5.9		5.9	1.1	ug/Kg	☼		01/21/15 13:45	1
Chlorobenzene	<5.9		5.9	0.60	ug/Kg	☼		01/21/15 13:45	1
Chloroethane	<5.9		5.9	1.6	ug/Kg	☼		01/21/15 13:45	1
Chloroform	<5.9		5.9	0.68	ug/Kg	☼		01/21/15 13:45	1
Chloromethane	<5.9		5.9	1.2	ug/Kg	☼		01/21/15 13:45	1
cis-1,2-Dichloroethene	<5.9		5.9	0.83	ug/Kg	☼		01/21/15 13:45	1
cis-1,3-Dichloropropene	<5.9		5.9	0.77	ug/Kg	☼		01/21/15 13:45	1
Dibromochloromethane	<5.9		5.9	1.0	ug/Kg	☼		01/21/15 13:45	1
1,1-Dichloroethane	<5.9		5.9	0.93	ug/Kg	☼		01/21/15 13:45	1
1,2-Dichloroethane	<5.9		5.9	0.87	ug/Kg	☼		01/21/15 13:45	1
1,1-Dichloroethene	<5.9		5.9	0.95	ug/Kg	☼		01/21/15 13:45	1
1,2-Dichloropropane	<5.9		5.9	0.89	ug/Kg	☼		01/21/15 13:45	1
1,3-Dichloropropene, Total	<5.9		5.9	0.77	ug/Kg	☼		01/21/15 13:45	1
Ethylbenzene	<5.9		5.9	1.2	ug/Kg	☼		01/21/15 13:45	1
2-Hexanone	<5.9		5.9	1.7	ug/Kg	☼		01/21/15 13:45	1
Methylene Chloride	<5.9		5.9	1.6	ug/Kg	☼		01/21/15 13:45	1
Methyl Ethyl Ketone	26		5.9	2.1	ug/Kg	☼		01/21/15 13:45	1
methyl isobutyl ketone	<5.9		5.9	1.5	ug/Kg	☼		01/21/15 13:45	1
Methyl tert-butyl ether	<5.9		5.9	0.97	ug/Kg	☼		01/21/15 13:45	1
Styrene	<5.9		5.9	0.77	ug/Kg	☼		01/21/15 13:45	1
1,1,1,2-Tetrachloroethane	<5.9		5.9	1.2	ug/Kg	☼		01/21/15 13:45	1
Tetrachloroethene	<5.9		5.9	0.90	ug/Kg	☼		01/21/15 13:45	1
Toluene	<5.9		5.9	0.82	ug/Kg	☼		01/21/15 13:45	1
trans-1,2-Dichloroethene	<5.9		5.9	0.81	ug/Kg	☼		01/21/15 13:45	1
trans-1,3-Dichloropropene	<5.9		5.9	1.1	ug/Kg	☼		01/21/15 13:45	1
1,1,1-Trichloroethane	<5.9		5.9	0.88	ug/Kg	☼		01/21/15 13:45	1
1,1,2-Trichloroethane	<5.9		5.9	0.80	ug/Kg	☼		01/21/15 13:45	1
Trichloroethene	<5.9		5.9	0.97	ug/Kg	☼		01/21/15 13:45	1
Vinyl chloride	<5.9		5.9	1.2	ug/Kg	☼		01/21/15 13:45	1
Xylenes, Total	<12		12	0.53	ug/Kg	☼		01/21/15 13:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122		01/21/15 13:45	1
Dibromofluoromethane	105		75 - 120		01/21/15 13:45	1
1,2-Dichloroethane-d4 (Surr)	116		70 - 134		01/21/15 13:45	1
Toluene-d8 (Surr)	95		75 - 122		01/21/15 13:45	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	☼	01/20/15 07:14	01/22/15 20:18	1
1,2-Dichlorobenzene	<190		190	44	ug/Kg	☼	01/20/15 07:14	01/22/15 20:18	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	01/20/15 07:14	01/22/15 20:18	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	01/20/15 07:14	01/22/15 20:18	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	01/20/15 07:14	01/22/15 20:18	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90936-1

Client Sample ID: ROW-7(0-3)-011515

Lab Sample ID: 500-90936-2

Date Collected: 01/15/15 15:40

Matrix: Solid

Date Received: 01/16/15 16:00

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	85	ug/Kg	☼	01/20/15 07:14	01/22/15 20:18	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	01/20/15 07:14	01/22/15 20:18	1
2,4-Dichlorophenol	<370		370	88	ug/Kg	☼	01/20/15 07:14	01/22/15 20:18	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	01/20/15 07:14	01/22/15 20:18	1
2,4-Dinitrophenol	<750		750	650	ug/Kg	☼	01/20/15 07:14	01/22/15 20:18	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	01/20/15 07:14	01/22/15 20:18	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	01/20/15 07:14	01/22/15 20:18	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	01/20/15 07:14	01/22/15 20:18	1
2-Chlorophenol	<190		190	63	ug/Kg	☼	01/20/15 07:14	01/22/15 20:18	1
2-Methylnaphthalene	18	J	37	6.8	ug/Kg	☼	01/20/15 07:14	01/22/15 20:18	1
2-Methylphenol	<190		190	60	ug/Kg	☼	01/20/15 07:14	01/22/15 20:18	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	01/20/15 07:14	01/22/15 20:18	1
2-Nitrophenol	<370		370	88	ug/Kg	☼	01/20/15 07:14	01/22/15 20:18	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	01/20/15 07:14	01/22/15 20:18	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	01/20/15 07:14	01/22/15 20:18	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	01/20/15 07:14	01/22/15 20:18	1
4,6-Dinitro-2-methylphenol	<370		370	300	ug/Kg	☼	01/20/15 07:14	01/22/15 20:18	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	01/20/15 07:14	01/22/15 20:18	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	01/20/15 07:14	01/22/15 20:18	1
4-Chloroaniline	<750		750	170	ug/Kg	☼	01/20/15 07:14	01/22/15 20:18	1
4-Chlorophenyl phenyl ether	<190		190	43	ug/Kg	☼	01/20/15 07:14	01/22/15 20:18	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	01/20/15 07:14	01/22/15 20:18	1
4-Nitrophenol	<750		750	350	ug/Kg	☼	01/20/15 07:14	01/22/15 20:18	1
Acenaphthene	<37		37	6.7	ug/Kg	☼	01/20/15 07:14	01/22/15 20:18	1
Acenaphthylene	<37		37	4.9	ug/Kg	☼	01/20/15 07:14	01/22/15 20:18	1
Anthracene	<37		37	6.2	ug/Kg	☼	01/20/15 07:14	01/22/15 20:18	1
Benzo[a]anthracene	64		37	5.0	ug/Kg	☼	01/20/15 07:14	01/22/15 20:18	1
Benzo[a]pyrene	70		37	7.2	ug/Kg	☼	01/20/15 07:14	01/22/15 20:18	1
Benzo[b]fluoranthene	110		37	8.0	ug/Kg	☼	01/20/15 07:14	01/22/15 20:18	1
Benzo[g,h,i]perylene	85		37	12	ug/Kg	☼	01/20/15 07:14	01/22/15 20:18	1
Benzo[k]fluoranthene	43		37	11	ug/Kg	☼	01/20/15 07:14	01/22/15 20:18	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	01/20/15 07:14	01/22/15 20:18	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	01/20/15 07:14	01/22/15 20:18	1
Bis(2-ethylhexyl) phthalate	<190		190	68	ug/Kg	☼	01/20/15 07:14	01/22/15 20:18	1
Butyl benzyl phthalate	<190		190	71	ug/Kg	☼	01/20/15 07:14	01/22/15 20:18	1
Carbazole	<190		190	96	ug/Kg	☼	01/20/15 07:14	01/22/15 20:18	1
Chrysene	87		37	10	ug/Kg	☼	01/20/15 07:14	01/22/15 20:18	1
Dibenz(a,h)anthracene	31	J	37	7.2	ug/Kg	☼	01/20/15 07:14	01/22/15 20:18	1
Dibenzofuran	<190		190	44	ug/Kg	☼	01/20/15 07:14	01/22/15 20:18	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	01/20/15 07:14	01/22/15 20:18	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	01/20/15 07:14	01/22/15 20:18	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	01/20/15 07:14	01/22/15 20:18	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	01/20/15 07:14	01/22/15 20:18	1
Fluoranthene	100		37	6.9	ug/Kg	☼	01/20/15 07:14	01/22/15 20:18	1
Fluorene	<37		37	5.2	ug/Kg	☼	01/20/15 07:14	01/22/15 20:18	1
Hexachlorobenzene	<75		75	8.6	ug/Kg	☼	01/20/15 07:14	01/22/15 20:18	1
Hexachlorobutadiene	<190		190	58	ug/Kg	☼	01/20/15 07:14	01/22/15 20:18	1
Hexachlorocyclopentadiene	<750		750	210	ug/Kg	☼	01/20/15 07:14	01/22/15 20:18	1
Hexachloroethane	<190		190	57	ug/Kg	☼	01/20/15 07:14	01/22/15 20:18	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90936-1

Client Sample ID: ROW-7(0-3)-011515

Lab Sample ID: 500-90936-2

Date Collected: 01/15/15 15:40

Matrix: Solid

Date Received: 01/16/15 16:00

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	58		37	9.6	ug/Kg	☼	01/20/15 07:14	01/22/15 20:18	1
Isophorone	<190		190	42	ug/Kg	☼	01/20/15 07:14	01/22/15 20:18	1
Naphthalene	9.6 J		37	5.7	ug/Kg	☼	01/20/15 07:14	01/22/15 20:18	1
Nitrobenzene	<37		37	9.3	ug/Kg	☼	01/20/15 07:14	01/22/15 20:18	1
N-Nitrosodi-n-propylamine	<190		190	45	ug/Kg	☼	01/20/15 07:14	01/22/15 20:18	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	01/20/15 07:14	01/22/15 20:18	1
Pentachlorophenol	<750		750	600	ug/Kg	☼	01/20/15 07:14	01/22/15 20:18	1
Phenanthrene	55		37	5.2	ug/Kg	☼	01/20/15 07:14	01/22/15 20:18	1
Phenol	<190		190	83	ug/Kg	☼	01/20/15 07:14	01/22/15 20:18	1
Pyrene	140		37	7.4	ug/Kg	☼	01/20/15 07:14	01/22/15 20:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	73		35 - 137				01/20/15 07:14	01/22/15 20:18	1
2-Fluorobiphenyl	66		25 - 119				01/20/15 07:14	01/22/15 20:18	1
2-Fluorophenol	65		25 - 110				01/20/15 07:14	01/22/15 20:18	1
Nitrobenzene-d5	63		25 - 115				01/20/15 07:14	01/22/15 20:18	1
Phenol-d5	70		31 - 110				01/20/15 07:14	01/22/15 20:18	1
Terphenyl-d14	89		36 - 134				01/20/15 07:14	01/22/15 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		01/21/15 08:45	01/22/15 01:02	1
Barium	0.51		0.50	0.050	mg/L		01/21/15 08:45	01/22/15 01:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/21/15 08:45	01/22/15 01:02	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/21/15 08:45	01/22/15 01:02	1
Chromium	<0.025		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 01:02	1
Cobalt	0.013 J		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 01:02	1
Copper	<0.025		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 01:02	1
Iron	<0.20		0.20	0.20	mg/L		01/21/15 08:45	01/22/15 01:02	1
Lead	0.012		0.0075	0.0075	mg/L		01/21/15 08:45	01/22/15 01:02	1
Manganese	8.1		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 01:02	1
Nickel	0.011 J		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 01:02	1
Selenium	<0.050		0.050	0.020	mg/L		01/21/15 08:45	01/22/15 01:02	1
Silver	<0.025		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 01:02	1
Zinc	0.026 J		0.10	0.020	mg/L		01/21/15 08:45	01/22/15 01:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.022 J		0.050	0.010	mg/L		01/21/15 09:30	01/22/15 14:06	1
Barium	0.25 J		0.50	0.050	mg/L		01/21/15 09:30	01/22/15 14:06	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/21/15 09:30	01/22/15 14:06	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/21/15 09:30	01/22/15 14:06	1
Chromium	0.068		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 14:06	1
Cobalt	0.027		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 14:06	1
Copper	0.085		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 14:06	1
Iron	66		0.20	0.20	mg/L		01/21/15 09:30	01/22/15 14:06	1
Lead	0.16		0.0075	0.0075	mg/L		01/21/15 09:30	01/22/15 14:06	1
Manganese	0.83		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 14:06	1
Nickel	0.071		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 14:06	1
Selenium	<0.050		0.050	0.020	mg/L		01/21/15 09:30	01/22/15 14:06	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90936-1

Client Sample ID: ROW-7(0-3)-011515

Lab Sample ID: 500-90936-2

Date Collected: 01/15/15 15:40

Matrix: Solid

Date Received: 01/16/15 16:00

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		01/21/15 09:30	01/22/15 14:06	1
Zinc	0.21		0.10	0.020	mg/L		01/21/15 09:30	01/22/15 14:06	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.41	J B	1.2	0.24	mg/Kg	☼	01/19/15 16:20	01/21/15 03:24	1
Arsenic	7.4		0.58	0.27	mg/Kg	☼	01/19/15 16:20	01/21/15 03:24	1
Barium	64		0.58	0.11	mg/Kg	☼	01/19/15 16:20	01/21/15 03:24	1
Beryllium	0.65		0.23	0.050	mg/Kg	☼	01/19/15 16:20	01/21/15 03:24	1
Cadmium	0.15		0.12	0.033	mg/Kg	☼	01/19/15 16:20	01/21/15 18:26	1
Calcium	46000		12	3.7	mg/Kg	☼	01/19/15 16:20	01/21/15 03:24	1
Chromium	17		0.58	0.099	mg/Kg	☼	01/19/15 16:20	01/21/15 03:24	1
Cobalt	9.8		0.29	0.065	mg/Kg	☼	01/19/15 16:20	01/21/15 03:24	1
Copper	22		0.58	0.13	mg/Kg	☼	01/19/15 16:20	01/21/15 03:24	1
Iron	17000		12	4.5	mg/Kg	☼	01/19/15 16:20	01/21/15 03:24	1
Lead	55		0.29	0.14	mg/Kg	☼	01/19/15 16:20	01/21/15 03:24	1
Magnesium	24000		5.8	2.3	mg/Kg	☼	01/19/15 16:20	01/21/15 03:24	1
Manganese	550		0.58	0.11	mg/Kg	☼	01/19/15 16:20	01/21/15 03:24	1
Nickel	20		0.58	0.16	mg/Kg	☼	01/19/15 16:20	01/21/15 03:24	1
Potassium	2600		29	4.7	mg/Kg	☼	01/19/15 16:20	01/21/15 03:24	1
Selenium	<0.58		0.58	0.29	mg/Kg	☼	01/19/15 16:20	01/21/15 03:24	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	01/19/15 16:20	01/21/15 03:24	1
Sodium	1300		58	7.6	mg/Kg	☼	01/19/15 16:20	01/21/15 03:24	1
Thallium	0.56	J	0.58	0.28	mg/Kg	☼	01/19/15 16:20	01/21/15 03:24	1
Vanadium	22		0.29	0.084	mg/Kg	☼	01/19/15 16:20	01/21/15 03:24	1
Zinc	65	B	1.2	0.37	mg/Kg	☼	01/19/15 16:20	01/21/15 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		01/21/15 11:30	01/22/15 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		01/21/15 11:30	01/22/15 10:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	24		18	6.2	ug/Kg	☼	01/19/15 14:30	01/20/15 09:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.00		0.200	0.200	SU			01/21/15 10:51	1

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90936-1

Client Sample ID: ROW-5(0-3)-011515

Lab Sample ID: 500-90936-4

Date Collected: 01/15/15 16:00

Matrix: Solid

Date Received: 01/16/15 16:00

Percent Solids: 85.7

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	45		5.8	2.5	ug/Kg	☼		01/21/15 14:33	1
Benzene	<5.8		5.8	0.80	ug/Kg	☼		01/21/15 14:33	1
Bromodichloromethane	<5.8		5.8	1.0	ug/Kg	☼		01/21/15 14:33	1
Bromoform	<5.8		5.8	1.3	ug/Kg	☼		01/21/15 14:33	1
Bromomethane	<5.8		5.8	1.8	ug/Kg	☼		01/21/15 14:33	1
Carbon disulfide	<5.8		5.8	0.87	ug/Kg	☼		01/21/15 14:33	1
Carbon tetrachloride	<5.8		5.8	1.1	ug/Kg	☼		01/21/15 14:33	1
Chlorobenzene	<5.8		5.8	0.59	ug/Kg	☼		01/21/15 14:33	1
Chloroethane	<5.8		5.8	1.6	ug/Kg	☼		01/21/15 14:33	1
Chloroform	<5.8		5.8	0.67	ug/Kg	☼		01/21/15 14:33	1
Chloromethane	<5.8		5.8	1.2	ug/Kg	☼		01/21/15 14:33	1
cis-1,2-Dichloroethene	<5.8		5.8	0.82	ug/Kg	☼		01/21/15 14:33	1
cis-1,3-Dichloropropene	<5.8		5.8	0.77	ug/Kg	☼		01/21/15 14:33	1
Dibromochloromethane	<5.8		5.8	1.0	ug/Kg	☼		01/21/15 14:33	1
1,1-Dichloroethane	<5.8		5.8	0.92	ug/Kg	☼		01/21/15 14:33	1
1,2-Dichloroethane	<5.8		5.8	0.86	ug/Kg	☼		01/21/15 14:33	1
1,1-Dichloroethene	<5.8		5.8	0.94	ug/Kg	☼		01/21/15 14:33	1
1,2-Dichloropropane	<5.8		5.8	0.89	ug/Kg	☼		01/21/15 14:33	1
1,3-Dichloropropene, Total	<5.8		5.8	0.77	ug/Kg	☼		01/21/15 14:33	1
Ethylbenzene	<5.8		5.8	1.2	ug/Kg	☼		01/21/15 14:33	1
2-Hexanone	<5.8		5.8	1.7	ug/Kg	☼		01/21/15 14:33	1
Methylene Chloride	<5.8		5.8	1.6	ug/Kg	☼		01/21/15 14:33	1
Methyl Ethyl Ketone	6.7		5.8	2.1	ug/Kg	☼		01/21/15 14:33	1
methyl isobutyl ketone	<5.8		5.8	1.5	ug/Kg	☼		01/21/15 14:33	1
Methyl tert-butyl ether	<5.8		5.8	0.96	ug/Kg	☼		01/21/15 14:33	1
Styrene	<5.8		5.8	0.77	ug/Kg	☼		01/21/15 14:33	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	1.2	ug/Kg	☼		01/21/15 14:33	1
Tetrachloroethene	<5.8		5.8	0.89	ug/Kg	☼		01/21/15 14:33	1
Toluene	<5.8		5.8	0.82	ug/Kg	☼		01/21/15 14:33	1
trans-1,2-Dichloroethene	<5.8		5.8	0.80	ug/Kg	☼		01/21/15 14:33	1
trans-1,3-Dichloropropene	<5.8		5.8	1.0	ug/Kg	☼		01/21/15 14:33	1
1,1,1-Trichloroethane	<5.8		5.8	0.87	ug/Kg	☼		01/21/15 14:33	1
1,1,2-Trichloroethane	<5.8		5.8	0.80	ug/Kg	☼		01/21/15 14:33	1
Trichloroethene	<5.8		5.8	0.96	ug/Kg	☼		01/21/15 14:33	1
Vinyl chloride	<5.8		5.8	1.2	ug/Kg	☼		01/21/15 14:33	1
Xylenes, Total	<12		12	0.53	ug/Kg	☼		01/21/15 14:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122		01/21/15 14:33	1
Dibromofluoromethane	104		75 - 120		01/21/15 14:33	1
1,2-Dichloroethane-d4 (Surr)	114		70 - 134		01/21/15 14:33	1
Toluene-d8 (Surr)	94		75 - 122		01/21/15 14:33	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	☼	01/20/15 07:14	01/22/15 01:17	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	01/20/15 07:14	01/22/15 01:17	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	01/20/15 07:14	01/22/15 01:17	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	01/20/15 07:14	01/22/15 01:17	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	01/20/15 07:14	01/22/15 01:17	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90936-1

Client Sample ID: ROW-5(0-3)-011515

Lab Sample ID: 500-90936-4

Date Collected: 01/15/15 16:00

Matrix: Solid

Date Received: 01/16/15 16:00

Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	86	ug/Kg	☼	01/20/15 07:14	01/22/15 01:17	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	01/20/15 07:14	01/22/15 01:17	1
2,4-Dichlorophenol	<370		370	89	ug/Kg	☼	01/20/15 07:14	01/22/15 01:17	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	01/20/15 07:14	01/22/15 01:17	1
2,4-Dinitrophenol	<760		760	660	ug/Kg	☼	01/20/15 07:14	01/22/15 01:17	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	01/20/15 07:14	01/22/15 01:17	1
2,6-Dinitrotoluene	<190		190	74	ug/Kg	☼	01/20/15 07:14	01/22/15 01:17	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	01/20/15 07:14	01/22/15 01:17	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	01/20/15 07:14	01/22/15 01:17	1
2-Methylnaphthalene	<37		37	6.9	ug/Kg	☼	01/20/15 07:14	01/22/15 01:17	1
2-Methylphenol	<190		190	60	ug/Kg	☼	01/20/15 07:14	01/22/15 01:17	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	01/20/15 07:14	01/22/15 01:17	1
2-Nitrophenol	<370		370	89	ug/Kg	☼	01/20/15 07:14	01/22/15 01:17	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	01/20/15 07:14	01/22/15 01:17	1
3,3'-Dichlorobenzidine	<190		190	53	ug/Kg	☼	01/20/15 07:14	01/22/15 01:17	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	01/20/15 07:14	01/22/15 01:17	1
4,6-Dinitro-2-methylphenol	<370		370	300	ug/Kg	☼	01/20/15 07:14	01/22/15 01:17	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	01/20/15 07:14	01/22/15 01:17	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	01/20/15 07:14	01/22/15 01:17	1
4-Chloroaniline	<760		760	180	ug/Kg	☼	01/20/15 07:14	01/22/15 01:17	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	01/20/15 07:14	01/22/15 01:17	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	01/20/15 07:14	01/22/15 01:17	1
4-Nitrophenol	<760		760	360	ug/Kg	☼	01/20/15 07:14	01/22/15 01:17	1
Acenaphthene	<37		37	6.8	ug/Kg	☼	01/20/15 07:14	01/22/15 01:17	1
Acenaphthylene	<37		37	5.0	ug/Kg	☼	01/20/15 07:14	01/22/15 01:17	1
Anthracene	<37		37	6.3	ug/Kg	☼	01/20/15 07:14	01/22/15 01:17	1
Benzo[a]anthracene	<37		37	5.1	ug/Kg	☼	01/20/15 07:14	01/22/15 01:17	1
Benzo[a]pyrene	<37		37	7.3	ug/Kg	☼	01/20/15 07:14	01/22/15 01:17	1
Benzo[b]fluoranthene	<37		37	8.1	ug/Kg	☼	01/20/15 07:14	01/22/15 01:17	1
Benzo[g,h,i]perylene	<37		37	12	ug/Kg	☼	01/20/15 07:14	01/22/15 01:17	1
Benzo[k]fluoranthene	<37		37	11	ug/Kg	☼	01/20/15 07:14	01/22/15 01:17	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	01/20/15 07:14	01/22/15 01:17	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	01/20/15 07:14	01/22/15 01:17	1
Bis(2-ethylhexyl) phthalate	<190		190	69	ug/Kg	☼	01/20/15 07:14	01/22/15 01:17	1
Butyl benzyl phthalate	<190		190	72	ug/Kg	☼	01/20/15 07:14	01/22/15 01:17	1
Carbazole	<190		190	97	ug/Kg	☼	01/20/15 07:14	01/22/15 01:17	1
Chrysene	<37		37	10	ug/Kg	☼	01/20/15 07:14	01/22/15 01:17	1
Dibenz(a,h)anthracene	<37		37	7.3	ug/Kg	☼	01/20/15 07:14	01/22/15 01:17	1
Dibenzofuran	<190		190	44	ug/Kg	☼	01/20/15 07:14	01/22/15 01:17	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	01/20/15 07:14	01/22/15 01:17	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	01/20/15 07:14	01/22/15 01:17	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	01/20/15 07:14	01/22/15 01:17	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	01/20/15 07:14	01/22/15 01:17	1
Fluoranthene	<37		37	7.0	ug/Kg	☼	01/20/15 07:14	01/22/15 01:17	1
Fluorene	<37		37	5.3	ug/Kg	☼	01/20/15 07:14	01/22/15 01:17	1
Hexachlorobenzene	<76		76	8.7	ug/Kg	☼	01/20/15 07:14	01/22/15 01:17	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	01/20/15 07:14	01/22/15 01:17	1
Hexachlorocyclopentadiene	<760		760	220	ug/Kg	☼	01/20/15 07:14	01/22/15 01:17	1
Hexachloroethane	<190		190	57	ug/Kg	☼	01/20/15 07:14	01/22/15 01:17	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90936-1

Client Sample ID: ROW-5(0-3)-011515

Lab Sample ID: 500-90936-4

Date Collected: 01/15/15 16:00

Matrix: Solid

Date Received: 01/16/15 16:00

Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<37		37	9.8	ug/Kg	☼	01/20/15 07:14	01/22/15 01:17	1
Isophorone	<190		190	42	ug/Kg	☼	01/20/15 07:14	01/22/15 01:17	1
Naphthalene	<37		37	5.8	ug/Kg	☼	01/20/15 07:14	01/22/15 01:17	1
Nitrobenzene	<37		37	9.4	ug/Kg	☼	01/20/15 07:14	01/22/15 01:17	1
N-Nitrosodi-n-propylamine	<190		190	46	ug/Kg	☼	01/20/15 07:14	01/22/15 01:17	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	01/20/15 07:14	01/22/15 01:17	1
Pentachlorophenol	<760		760	600	ug/Kg	☼	01/20/15 07:14	01/22/15 01:17	1
Phenanthrene	<37		37	5.2	ug/Kg	☼	01/20/15 07:14	01/22/15 01:17	1
Phenol	<190		190	84	ug/Kg	☼	01/20/15 07:14	01/22/15 01:17	1
Pyrene	8.0	J	37	7.5	ug/Kg	☼	01/20/15 07:14	01/22/15 01:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	48		35 - 137	01/20/15 07:14	01/22/15 01:17	1
2-Fluorobiphenyl	42		25 - 119	01/20/15 07:14	01/22/15 01:17	1
2-Fluorophenol	42		25 - 110	01/20/15 07:14	01/22/15 01:17	1
Nitrobenzene-d5	37		25 - 115	01/20/15 07:14	01/22/15 01:17	1
Phenol-d5	46		31 - 110	01/20/15 07:14	01/22/15 01:17	1
Terphenyl-d14	71		36 - 134	01/20/15 07:14	01/22/15 01:17	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		01/21/15 08:45	01/22/15 01:15	1
Barium	0.36	J	0.50	0.050	mg/L		01/21/15 08:45	01/22/15 01:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/21/15 08:45	01/22/15 01:15	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/21/15 08:45	01/22/15 01:15	1
Chromium	<0.025		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 01:15	1
Cobalt	<0.025		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 01:15	1
Copper	0.014	J	0.025	0.010	mg/L		01/21/15 08:45	01/22/15 01:15	1
Iron	<0.20		0.20	0.20	mg/L		01/21/15 08:45	01/22/15 01:15	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/21/15 08:45	01/22/15 01:15	1
Manganese	2.6		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 01:15	1
Nickel	<0.025		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 01:15	1
Selenium	<0.050		0.050	0.020	mg/L		01/21/15 08:45	01/22/15 01:15	1
Silver	<0.025		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 01:15	1
Zinc	0.049	J	0.10	0.020	mg/L		01/21/15 08:45	01/22/15 01:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.039	J	0.050	0.010	mg/L		01/21/15 09:30	01/22/15 14:52	1
Barium	0.39	J	0.50	0.050	mg/L		01/21/15 09:30	01/22/15 14:52	1
Beryllium	0.0047		0.0040	0.0040	mg/L		01/21/15 09:30	01/22/15 14:52	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/21/15 09:30	01/22/15 14:52	1
Chromium	0.11		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 14:52	1
Cobalt	0.045		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 14:52	1
Copper	0.17		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 14:52	1
Iron	110		0.20	0.20	mg/L		01/21/15 09:30	01/22/15 14:52	1
Lead	0.064		0.0075	0.0075	mg/L		01/21/15 09:30	01/22/15 14:52	1
Manganese	1.3		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 14:52	1
Nickel	0.12		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 14:52	1
Selenium	<0.050		0.050	0.020	mg/L		01/21/15 09:30	01/22/15 14:52	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90936-1

Client Sample ID: ROW-5(0-3)-011515

Lab Sample ID: 500-90936-4

Date Collected: 01/15/15 16:00

Matrix: Solid

Date Received: 01/16/15 16:00

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		01/21/15 09:30	01/22/15 14:52	1
Zinc	0.31		0.10	0.020	mg/L		01/21/15 09:30	01/22/15 14:52	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.34	J B	1.2	0.24	mg/Kg	☼	01/19/15 16:20	01/21/15 03:37	1
Arsenic	8.2		0.58	0.27	mg/Kg	☼	01/19/15 16:20	01/21/15 03:37	1
Barium	57		0.58	0.11	mg/Kg	☼	01/19/15 16:20	01/21/15 03:37	1
Beryllium	0.70		0.23	0.050	mg/Kg	☼	01/19/15 16:20	01/21/15 03:37	1
Cadmium	<0.12		0.12	0.033	mg/Kg	☼	01/19/15 16:20	01/21/15 18:36	1
Calcium	35000		12	3.7	mg/Kg	☼	01/19/15 16:20	01/21/15 03:37	1
Chromium	19		0.58	0.099	mg/Kg	☼	01/19/15 16:20	01/21/15 03:37	1
Cobalt	10		0.29	0.065	mg/Kg	☼	01/19/15 16:20	01/21/15 03:37	1
Copper	22		0.58	0.13	mg/Kg	☼	01/19/15 16:20	01/21/15 03:37	1
Iron	20000		12	4.4	mg/Kg	☼	01/19/15 16:20	01/21/15 03:37	1
Lead	13		0.29	0.14	mg/Kg	☼	01/19/15 16:20	01/21/15 03:37	1
Magnesium	22000		5.8	2.3	mg/Kg	☼	01/19/15 16:20	01/21/15 03:37	1
Manganese	480		0.58	0.11	mg/Kg	☼	01/19/15 16:20	01/21/15 03:37	1
Nickel	26		0.58	0.16	mg/Kg	☼	01/19/15 16:20	01/21/15 03:37	1
Potassium	2800		29	4.7	mg/Kg	☼	01/19/15 16:20	01/21/15 03:37	1
Selenium	<0.58		0.58	0.29	mg/Kg	☼	01/19/15 16:20	01/21/15 03:37	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	01/19/15 16:20	01/21/15 03:37	1
Sodium	1300		58	7.6	mg/Kg	☼	01/19/15 16:20	01/21/15 03:37	1
Thallium	0.68		0.58	0.28	mg/Kg	☼	01/19/15 16:20	01/21/15 03:37	1
Vanadium	24		0.29	0.084	mg/Kg	☼	01/19/15 16:20	01/21/15 03:37	1
Zinc	47	B	1.2	0.36	mg/Kg	☼	01/19/15 16:20	01/21/15 03:37	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		01/21/15 11:30	01/22/15 09:27	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		01/21/15 11:30	01/22/15 10:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	17	J	18	6.4	ug/Kg	☼	01/19/15 14:30	01/20/15 09:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.89		0.200	0.200	SU			01/21/15 11:08	1

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90936-1

Client Sample ID: ROW-4(0-3)-011515

Lab Sample ID: 500-90936-5

Date Collected: 01/15/15 16:10

Matrix: Solid

Date Received: 01/16/15 16:00

Percent Solids: 83.9

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25		6.0	2.6	ug/Kg	☼		01/21/15 14:58	1
Benzene	<6.0		6.0	0.82	ug/Kg	☼		01/21/15 14:58	1
Bromodichloromethane	<6.0		6.0	1.0	ug/Kg	☼		01/21/15 14:58	1
Bromoform	<6.0		6.0	1.4	ug/Kg	☼		01/21/15 14:58	1
Bromomethane	<6.0		6.0	1.8	ug/Kg	☼		01/21/15 14:58	1
Carbon disulfide	<6.0		6.0	0.89	ug/Kg	☼		01/21/15 14:58	1
Carbon tetrachloride	<6.0		6.0	1.1	ug/Kg	☼		01/21/15 14:58	1
Chlorobenzene	<6.0		6.0	0.60	ug/Kg	☼		01/21/15 14:58	1
Chloroethane	<6.0		6.0	1.6	ug/Kg	☼		01/21/15 14:58	1
Chloroform	<6.0		6.0	0.68	ug/Kg	☼		01/21/15 14:58	1
Chloromethane	<6.0		6.0	1.3	ug/Kg	☼		01/21/15 14:58	1
cis-1,2-Dichloroethene	<6.0		6.0	0.84	ug/Kg	☼		01/21/15 14:58	1
cis-1,3-Dichloropropene	<6.0		6.0	0.78	ug/Kg	☼		01/21/15 14:58	1
Dibromochloromethane	<6.0		6.0	1.0	ug/Kg	☼		01/21/15 14:58	1
1,1-Dichloroethane	<6.0		6.0	0.94	ug/Kg	☼		01/21/15 14:58	1
1,2-Dichloroethane	<6.0		6.0	0.88	ug/Kg	☼		01/21/15 14:58	1
1,1-Dichloroethene	<6.0		6.0	0.96	ug/Kg	☼		01/21/15 14:58	1
1,2-Dichloropropane	<6.0		6.0	0.90	ug/Kg	☼		01/21/15 14:58	1
1,3-Dichloropropene, Total	<6.0		6.0	0.78	ug/Kg	☼		01/21/15 14:58	1
Ethylbenzene	<6.0		6.0	1.2	ug/Kg	☼		01/21/15 14:58	1
2-Hexanone	<6.0		6.0	1.7	ug/Kg	☼		01/21/15 14:58	1
Methylene Chloride	<6.0		6.0	1.6	ug/Kg	☼		01/21/15 14:58	1
Methyl Ethyl Ketone	<6.0		6.0	2.2	ug/Kg	☼		01/21/15 14:58	1
methyl isobutyl ketone	<6.0		6.0	1.6	ug/Kg	☼		01/21/15 14:58	1
Methyl tert-butyl ether	<6.0		6.0	0.98	ug/Kg	☼		01/21/15 14:58	1
Styrene	<6.0		6.0	0.78	ug/Kg	☼		01/21/15 14:58	1
1,1,2,2-Tetrachloroethane	<6.0		6.0	1.2	ug/Kg	☼		01/21/15 14:58	1
Tetrachloroethene	<6.0		6.0	0.91	ug/Kg	☼		01/21/15 14:58	1
Toluene	<6.0		6.0	0.83	ug/Kg	☼		01/21/15 14:58	1
trans-1,2-Dichloroethene	<6.0		6.0	0.82	ug/Kg	☼		01/21/15 14:58	1
trans-1,3-Dichloropropene	<6.0		6.0	1.1	ug/Kg	☼		01/21/15 14:58	1
1,1,1-Trichloroethane	<6.0		6.0	0.89	ug/Kg	☼		01/21/15 14:58	1
1,1,2-Trichloroethane	<6.0		6.0	0.81	ug/Kg	☼		01/21/15 14:58	1
Trichloroethene	<6.0		6.0	0.98	ug/Kg	☼		01/21/15 14:58	1
Vinyl chloride	<6.0		6.0	1.3	ug/Kg	☼		01/21/15 14:58	1
Xylenes, Total	<12		12	0.54	ug/Kg	☼		01/21/15 14:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122		01/21/15 14:58	1
Dibromofluoromethane	102		75 - 120		01/21/15 14:58	1
1,2-Dichloroethane-d4 (Surr)	113		70 - 134		01/21/15 14:58	1
Toluene-d8 (Surr)	95		75 - 122		01/21/15 14:58	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	41	ug/Kg	☼	01/20/15 07:14	01/22/15 20:59	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	01/20/15 07:14	01/22/15 20:59	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	01/20/15 07:14	01/22/15 20:59	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	01/20/15 07:14	01/22/15 20:59	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	01/20/15 07:14	01/22/15 20:59	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90936-1

Client Sample ID: ROW-4(0-3)-011515

Lab Sample ID: 500-90936-5

Date Collected: 01/15/15 16:10

Matrix: Solid

Date Received: 01/16/15 16:00

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	☼	01/20/15 07:14	01/22/15 20:59	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	01/20/15 07:14	01/22/15 20:59	1
2,4-Dichlorophenol	<380		380	91	ug/Kg	☼	01/20/15 07:14	01/22/15 20:59	1
2,4-Dimethylphenol	<380		380	140	ug/Kg	☼	01/20/15 07:14	01/22/15 20:59	1
2,4-Dinitrophenol	<770		770	670	ug/Kg	☼	01/20/15 07:14	01/22/15 20:59	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	01/20/15 07:14	01/22/15 20:59	1
2,6-Dinitrotoluene	<190		190	75	ug/Kg	☼	01/20/15 07:14	01/22/15 20:59	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	01/20/15 07:14	01/22/15 20:59	1
2-Chlorophenol	<190		190	65	ug/Kg	☼	01/20/15 07:14	01/22/15 20:59	1
2-Methylnaphthalene	<38		38	7.0	ug/Kg	☼	01/20/15 07:14	01/22/15 20:59	1
2-Methylphenol	<190		190	61	ug/Kg	☼	01/20/15 07:14	01/22/15 20:59	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	01/20/15 07:14	01/22/15 20:59	1
2-Nitrophenol	<380		380	90	ug/Kg	☼	01/20/15 07:14	01/22/15 20:59	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	☼	01/20/15 07:14	01/22/15 20:59	1
3,3'-Dichlorobenzidine	<190		190	53	ug/Kg	☼	01/20/15 07:14	01/22/15 20:59	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	01/20/15 07:14	01/22/15 20:59	1
4,6-Dinitro-2-methylphenol	<380		380	310	ug/Kg	☼	01/20/15 07:14	01/22/15 20:59	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	01/20/15 07:14	01/22/15 20:59	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	01/20/15 07:14	01/22/15 20:59	1
4-Chloroaniline	<770		770	180	ug/Kg	☼	01/20/15 07:14	01/22/15 20:59	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	01/20/15 07:14	01/22/15 20:59	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	01/20/15 07:14	01/22/15 20:59	1
4-Nitrophenol	<770		770	360	ug/Kg	☼	01/20/15 07:14	01/22/15 20:59	1
Acenaphthene	<38		38	6.9	ug/Kg	☼	01/20/15 07:14	01/22/15 20:59	1
Acenaphthylene	<38		38	5.0	ug/Kg	☼	01/20/15 07:14	01/22/15 20:59	1
Anthracene	<38		38	6.4	ug/Kg	☼	01/20/15 07:14	01/22/15 20:59	1
Benzo[a]anthracene	24 J		38	5.1	ug/Kg	☼	01/20/15 07:14	01/22/15 20:59	1
Benzo[a]pyrene	23 J		38	7.4	ug/Kg	☼	01/20/15 07:14	01/22/15 20:59	1
Benzo[b]fluoranthene	43		38	8.2	ug/Kg	☼	01/20/15 07:14	01/22/15 20:59	1
Benzo[g,h,i]perylene	30 J		38	12	ug/Kg	☼	01/20/15 07:14	01/22/15 20:59	1
Benzo[k]fluoranthene	22 J		38	11	ug/Kg	☼	01/20/15 07:14	01/22/15 20:59	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	01/20/15 07:14	01/22/15 20:59	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	01/20/15 07:14	01/22/15 20:59	1
Bis(2-ethylhexyl) phthalate	<190		190	70	ug/Kg	☼	01/20/15 07:14	01/22/15 20:59	1
Butyl benzyl phthalate	<190		190	73	ug/Kg	☼	01/20/15 07:14	01/22/15 20:59	1
Carbazole	<190		190	99	ug/Kg	☼	01/20/15 07:14	01/22/15 20:59	1
Chrysene	26 J		38	10	ug/Kg	☼	01/20/15 07:14	01/22/15 20:59	1
Dibenz(a,h)anthracene	7.6 J		38	7.4	ug/Kg	☼	01/20/15 07:14	01/22/15 20:59	1
Dibenzofuran	<190		190	45	ug/Kg	☼	01/20/15 07:14	01/22/15 20:59	1
Diethyl phthalate	<190		190	65	ug/Kg	☼	01/20/15 07:14	01/22/15 20:59	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	01/20/15 07:14	01/22/15 20:59	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	01/20/15 07:14	01/22/15 20:59	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	01/20/15 07:14	01/22/15 20:59	1
Fluoranthene	15 J		38	7.1	ug/Kg	☼	01/20/15 07:14	01/22/15 20:59	1
Fluorene	<38		38	5.4	ug/Kg	☼	01/20/15 07:14	01/22/15 20:59	1
Hexachlorobenzene	<77		77	8.8	ug/Kg	☼	01/20/15 07:14	01/22/15 20:59	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	01/20/15 07:14	01/22/15 20:59	1
Hexachlorocyclopentadiene	<770		770	220	ug/Kg	☼	01/20/15 07:14	01/22/15 20:59	1
Hexachloroethane	<190		190	58	ug/Kg	☼	01/20/15 07:14	01/22/15 20:59	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90936-1

Client Sample ID: ROW-4(0-3)-011515

Lab Sample ID: 500-90936-5

Date Collected: 01/15/15 16:10

Matrix: Solid

Date Received: 01/16/15 16:00

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	22	J	38	9.9	ug/Kg	☼	01/20/15 07:14	01/22/15 20:59	1
Isophorone	<190		190	43	ug/Kg	☼	01/20/15 07:14	01/22/15 20:59	1
Naphthalene	<38		38	5.9	ug/Kg	☼	01/20/15 07:14	01/22/15 20:59	1
Nitrobenzene	<38		38	9.5	ug/Kg	☼	01/20/15 07:14	01/22/15 20:59	1
N-Nitrosodi-n-propylamine	<190		190	47	ug/Kg	☼	01/20/15 07:14	01/22/15 20:59	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	01/20/15 07:14	01/22/15 20:59	1
Pentachlorophenol	<770		770	610	ug/Kg	☼	01/20/15 07:14	01/22/15 20:59	1
Phenanthrene	<38		38	5.3	ug/Kg	☼	01/20/15 07:14	01/22/15 20:59	1
Phenol	<190		190	85	ug/Kg	☼	01/20/15 07:14	01/22/15 20:59	1
Pyrene	53		38	7.6	ug/Kg	☼	01/20/15 07:14	01/22/15 20:59	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>2,4,6-Tribromophenol</i>	50		35 - 137				01/20/15 07:14	01/22/15 20:59	1
<i>2-Fluorobiphenyl</i>	48		25 - 119				01/20/15 07:14	01/22/15 20:59	1
<i>2-Fluorophenol</i>	45		25 - 110				01/20/15 07:14	01/22/15 20:59	1
<i>Nitrobenzene-d5</i>	38		25 - 115				01/20/15 07:14	01/22/15 20:59	1
<i>Phenol-d5</i>	49		31 - 110				01/20/15 07:14	01/22/15 20:59	1
<i>Terphenyl-d14</i>	76		36 - 134				01/20/15 07:14	01/22/15 20:59	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		01/21/15 08:45	01/22/15 01:36	1
Barium	0.40	J	0.50	0.050	mg/L		01/21/15 08:45	01/22/15 01:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/21/15 08:45	01/22/15 01:36	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/21/15 08:45	01/22/15 01:36	1
Chromium	<0.025		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 01:36	1
Cobalt	<0.025		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 01:36	1
Copper	0.048		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 01:36	1
Iron	<0.20		0.20	0.20	mg/L		01/21/15 08:45	01/22/15 01:36	1
Lead	0.0092		0.0075	0.0075	mg/L		01/21/15 08:45	01/22/15 01:36	1
Manganese	4.8		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 01:36	1
Nickel	0.011	J	0.025	0.010	mg/L		01/21/15 08:45	01/22/15 01:36	1
Selenium	<0.050		0.050	0.020	mg/L		01/21/15 08:45	01/22/15 01:36	1
Silver	<0.025		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 01:36	1
Zinc	0.067	J	0.10	0.020	mg/L		01/21/15 08:45	01/22/15 01:36	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		01/21/15 09:30	01/22/15 14:58	1
Barium	0.063	J	0.50	0.050	mg/L		01/21/15 09:30	01/22/15 14:58	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/21/15 09:30	01/22/15 14:58	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/21/15 09:30	01/22/15 14:58	1
Chromium	0.012	J	0.025	0.010	mg/L		01/21/15 09:30	01/22/15 14:58	1
Cobalt	<0.025		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 14:58	1
Copper	0.058		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 14:58	1
Iron	4.0		0.20	0.20	mg/L		01/21/15 09:30	01/22/15 14:58	1
Lead	0.012		0.0075	0.0075	mg/L		01/21/15 09:30	01/22/15 14:58	1
Manganese	0.065		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 14:58	1
Nickel	<0.025		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 14:58	1
Selenium	<0.050		0.050	0.020	mg/L		01/21/15 09:30	01/22/15 14:58	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90936-1

Client Sample ID: ROW-4(0-3)-011515

Lab Sample ID: 500-90936-5

Date Collected: 01/15/15 16:10

Matrix: Solid

Date Received: 01/16/15 16:00

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		01/21/15 09:30	01/22/15 14:58	1
Zinc	0.061	J	0.10	0.020	mg/L		01/21/15 09:30	01/22/15 14:58	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.41	J B	1.1	0.24	mg/Kg	☼	01/19/15 16:20	01/21/15 03:43	1
Arsenic	5.9		0.57	0.27	mg/Kg	☼	01/19/15 16:20	01/21/15 03:43	1
Barium	85		0.57	0.10	mg/Kg	☼	01/19/15 16:20	01/21/15 03:43	1
Beryllium	1.1		0.23	0.050	mg/Kg	☼	01/19/15 16:20	01/21/15 03:43	1
Cadmium	<0.11		0.11	0.033	mg/Kg	☼	01/19/15 16:20	01/21/15 18:41	1
Calcium	33000		11	3.7	mg/Kg	☼	01/19/15 16:20	01/21/15 03:43	1
Chromium	27		0.57	0.099	mg/Kg	☼	01/19/15 16:20	01/21/15 03:43	1
Cobalt	10		0.29	0.065	mg/Kg	☼	01/19/15 16:20	01/21/15 03:43	1
Copper	57		0.57	0.12	mg/Kg	☼	01/19/15 16:20	01/21/15 03:43	1
Iron	23000		11	4.4	mg/Kg	☼	01/19/15 16:20	01/21/15 03:43	1
Lead	58		0.29	0.14	mg/Kg	☼	01/19/15 16:20	01/21/15 03:43	1
Magnesium	23000		5.7	2.3	mg/Kg	☼	01/19/15 16:20	01/21/15 03:43	1
Manganese	440		0.57	0.11	mg/Kg	☼	01/19/15 16:20	01/21/15 03:43	1
Nickel	31		0.57	0.16	mg/Kg	☼	01/19/15 16:20	01/21/15 03:43	1
Potassium	3900		29	4.7	mg/Kg	☼	01/19/15 16:20	01/21/15 03:43	1
Selenium	<0.57		0.57	0.28	mg/Kg	☼	01/19/15 16:20	01/21/15 03:43	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	01/19/15 16:20	01/21/15 03:43	1
Sodium	1300		57	7.6	mg/Kg	☼	01/19/15 16:20	01/21/15 03:43	1
Thallium	0.50	J	0.57	0.28	mg/Kg	☼	01/19/15 16:20	01/21/15 03:43	1
Vanadium	30		0.29	0.084	mg/Kg	☼	01/19/15 16:20	01/21/15 03:43	1
Zinc	210	B	1.1	0.36	mg/Kg	☼	01/19/15 16:20	01/21/15 03:43	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		01/21/15 11:30	01/22/15 09:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		01/21/15 11:30	01/22/15 10:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	38		19	6.7	ug/Kg	☼	01/19/15 14:30	01/20/15 09:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.47		0.200	0.200	SU			01/21/15 11:16	1

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90936-1

Client Sample ID: ROW-15(0-3)-011515

Lab Sample ID: 500-90936-7

Date Collected: 01/16/15 08:30

Matrix: Solid

Date Received: 01/16/15 16:00

Percent Solids: 86.1

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	11		5.8	2.5	ug/Kg	☼		01/21/15 15:46	1
Benzene	<5.8		5.8	0.80	ug/Kg	☼		01/21/15 15:46	1
Bromodichloromethane	<5.8		5.8	1.0	ug/Kg	☼		01/21/15 15:46	1
Bromoform	<5.8		5.8	1.3	ug/Kg	☼		01/21/15 15:46	1
Bromomethane	<5.8		5.8	1.8	ug/Kg	☼		01/21/15 15:46	1
Carbon disulfide	<5.8		5.8	0.87	ug/Kg	☼		01/21/15 15:46	1
Carbon tetrachloride	<5.8		5.8	1.1	ug/Kg	☼		01/21/15 15:46	1
Chlorobenzene	<5.8		5.8	0.59	ug/Kg	☼		01/21/15 15:46	1
Chloroethane	<5.8		5.8	1.6	ug/Kg	☼		01/21/15 15:46	1
Chloroform	<5.8		5.8	0.67	ug/Kg	☼		01/21/15 15:46	1
Chloromethane	<5.8		5.8	1.2	ug/Kg	☼		01/21/15 15:46	1
cis-1,2-Dichloroethene	<5.8		5.8	0.82	ug/Kg	☼		01/21/15 15:46	1
cis-1,3-Dichloropropene	<5.8		5.8	0.76	ug/Kg	☼		01/21/15 15:46	1
Dibromochloromethane	<5.8		5.8	1.0	ug/Kg	☼		01/21/15 15:46	1
1,1-Dichloroethane	<5.8		5.8	0.92	ug/Kg	☼		01/21/15 15:46	1
1,2-Dichloroethane	<5.8		5.8	0.86	ug/Kg	☼		01/21/15 15:46	1
1,1-Dichloroethene	<5.8		5.8	0.94	ug/Kg	☼		01/21/15 15:46	1
1,2-Dichloropropane	<5.8		5.8	0.88	ug/Kg	☼		01/21/15 15:46	1
1,3-Dichloropropene, Total	<5.8		5.8	0.76	ug/Kg	☼		01/21/15 15:46	1
Ethylbenzene	<5.8		5.8	1.2	ug/Kg	☼		01/21/15 15:46	1
2-Hexanone	<5.8		5.8	1.7	ug/Kg	☼		01/21/15 15:46	1
Methylene Chloride	<5.8		5.8	1.6	ug/Kg	☼		01/21/15 15:46	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		01/21/15 15:46	1
methyl isobutyl ketone	<5.8		5.8	1.5	ug/Kg	☼		01/21/15 15:46	1
Methyl tert-butyl ether	<5.8		5.8	0.96	ug/Kg	☼		01/21/15 15:46	1
Styrene	<5.8		5.8	0.76	ug/Kg	☼		01/21/15 15:46	1
1,1,1,2-Tetrachloroethane	<5.8		5.8	1.2	ug/Kg	☼		01/21/15 15:46	1
Tetrachloroethene	<5.8		5.8	0.89	ug/Kg	☼		01/21/15 15:46	1
Toluene	<5.8		5.8	0.81	ug/Kg	☼		01/21/15 15:46	1
trans-1,2-Dichloroethene	<5.8		5.8	0.80	ug/Kg	☼		01/21/15 15:46	1
trans-1,3-Dichloropropene	<5.8		5.8	1.0	ug/Kg	☼		01/21/15 15:46	1
1,1,1-Trichloroethane	<5.8		5.8	0.87	ug/Kg	☼		01/21/15 15:46	1
1,1,2-Trichloroethane	<5.8		5.8	0.79	ug/Kg	☼		01/21/15 15:46	1
Trichloroethene	<5.8		5.8	0.96	ug/Kg	☼		01/21/15 15:46	1
Vinyl chloride	<5.8		5.8	1.2	ug/Kg	☼		01/21/15 15:46	1
Xylenes, Total	<12		12	0.53	ug/Kg	☼		01/21/15 15:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122		01/21/15 15:46	1
Dibromofluoromethane	107		75 - 120		01/21/15 15:46	1
1,2-Dichloroethane-d4 (Surr)	120		70 - 134		01/21/15 15:46	1
Toluene-d8 (Surr)	94		75 - 122		01/21/15 15:46	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	☼	01/20/15 07:14	01/22/15 02:02	1
1,2-Dichlorobenzene	<190		190	44	ug/Kg	☼	01/20/15 07:14	01/22/15 02:02	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	01/20/15 07:14	01/22/15 02:02	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	01/20/15 07:14	01/22/15 02:02	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	01/20/15 07:14	01/22/15 02:02	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90936-1

Client Sample ID: ROW-15(0-3)-011515

Lab Sample ID: 500-90936-7

Date Collected: 01/16/15 08:30

Matrix: Solid

Date Received: 01/16/15 16:00

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	☼	01/20/15 07:14	01/22/15 02:02	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	01/20/15 07:14	01/22/15 02:02	1
2,4-Dichlorophenol	<370		370	88	ug/Kg	☼	01/20/15 07:14	01/22/15 02:02	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	01/20/15 07:14	01/22/15 02:02	1
2,4-Dinitrophenol	<750		750	650	ug/Kg	☼	01/20/15 07:14	01/22/15 02:02	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	01/20/15 07:14	01/22/15 02:02	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	01/20/15 07:14	01/22/15 02:02	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	01/20/15 07:14	01/22/15 02:02	1
2-Chlorophenol	<190		190	63	ug/Kg	☼	01/20/15 07:14	01/22/15 02:02	1
2-Methylnaphthalene	15	J	37	6.8	ug/Kg	☼	01/20/15 07:14	01/22/15 02:02	1
2-Methylphenol	<190		190	59	ug/Kg	☼	01/20/15 07:14	01/22/15 02:02	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	01/20/15 07:14	01/22/15 02:02	1
2-Nitrophenol	<370		370	88	ug/Kg	☼	01/20/15 07:14	01/22/15 02:02	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	01/20/15 07:14	01/22/15 02:02	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	01/20/15 07:14	01/22/15 02:02	1
3-Nitroaniline	<370		370	110	ug/Kg	☼	01/20/15 07:14	01/22/15 02:02	1
4,6-Dinitro-2-methylphenol	<370		370	300	ug/Kg	☼	01/20/15 07:14	01/22/15 02:02	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	01/20/15 07:14	01/22/15 02:02	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	01/20/15 07:14	01/22/15 02:02	1
4-Chloroaniline	<750		750	170	ug/Kg	☼	01/20/15 07:14	01/22/15 02:02	1
4-Chlorophenyl phenyl ether	<190		190	43	ug/Kg	☼	01/20/15 07:14	01/22/15 02:02	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	01/20/15 07:14	01/22/15 02:02	1
4-Nitrophenol	<750		750	350	ug/Kg	☼	01/20/15 07:14	01/22/15 02:02	1
Acenaphthene	<37		37	6.7	ug/Kg	☼	01/20/15 07:14	01/22/15 02:02	1
Acenaphthylene	<37		37	4.9	ug/Kg	☼	01/20/15 07:14	01/22/15 02:02	1
Anthracene	<37		37	6.2	ug/Kg	☼	01/20/15 07:14	01/22/15 02:02	1
Benzo[a]anthracene	7.7	J	37	5.0	ug/Kg	☼	01/20/15 07:14	01/22/15 02:02	1
Benzo[a]pyrene	<37		37	7.2	ug/Kg	☼	01/20/15 07:14	01/22/15 02:02	1
Benzo[b]fluoranthene	14	J	37	8.0	ug/Kg	☼	01/20/15 07:14	01/22/15 02:02	1
Benzo[g,h,i]perylene	<37		37	12	ug/Kg	☼	01/20/15 07:14	01/22/15 02:02	1
Benzo[k]fluoranthene	<37		37	11	ug/Kg	☼	01/20/15 07:14	01/22/15 02:02	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	01/20/15 07:14	01/22/15 02:02	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	01/20/15 07:14	01/22/15 02:02	1
Bis(2-ethylhexyl) phthalate	<190		190	68	ug/Kg	☼	01/20/15 07:14	01/22/15 02:02	1
Butyl benzyl phthalate	<190		190	71	ug/Kg	☼	01/20/15 07:14	01/22/15 02:02	1
Carbazole	<190		190	96	ug/Kg	☼	01/20/15 07:14	01/22/15 02:02	1
Chrysene	20	J	37	10	ug/Kg	☼	01/20/15 07:14	01/22/15 02:02	1
Dibenz(a,h)anthracene	<37		37	7.2	ug/Kg	☼	01/20/15 07:14	01/22/15 02:02	1
Dibenzofuran	<190		190	43	ug/Kg	☼	01/20/15 07:14	01/22/15 02:02	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	01/20/15 07:14	01/22/15 02:02	1
Dimethyl phthalate	<190		190	48	ug/Kg	☼	01/20/15 07:14	01/22/15 02:02	1
Di-n-butyl phthalate	<190		190	56	ug/Kg	☼	01/20/15 07:14	01/22/15 02:02	1
Di-n-octyl phthalate	<190		190	60	ug/Kg	☼	01/20/15 07:14	01/22/15 02:02	1
Fluoranthene	12	J	37	6.9	ug/Kg	☼	01/20/15 07:14	01/22/15 02:02	1
Fluorene	<37		37	5.2	ug/Kg	☼	01/20/15 07:14	01/22/15 02:02	1
Hexachlorobenzene	<75		75	8.6	ug/Kg	☼	01/20/15 07:14	01/22/15 02:02	1
Hexachlorobutadiene	<190		190	58	ug/Kg	☼	01/20/15 07:14	01/22/15 02:02	1
Hexachlorocyclopentadiene	<750		750	210	ug/Kg	☼	01/20/15 07:14	01/22/15 02:02	1
Hexachloroethane	<190		190	56	ug/Kg	☼	01/20/15 07:14	01/22/15 02:02	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90936-1

Client Sample ID: ROW-15(0-3)-011515

Lab Sample ID: 500-90936-7

Date Collected: 01/16/15 08:30

Matrix: Solid

Date Received: 01/16/15 16:00

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	<37		37	9.6	ug/Kg	☼	01/20/15 07:14	01/22/15 02:02	1
Isophorone	<190		190	42	ug/Kg	☼	01/20/15 07:14	01/22/15 02:02	1
Naphthalene	<37		37	5.7	ug/Kg	☼	01/20/15 07:14	01/22/15 02:02	1
Nitrobenzene	<37		37	9.3	ug/Kg	☼	01/20/15 07:14	01/22/15 02:02	1
N-Nitrosodi-n-propylamine	<190		190	45	ug/Kg	☼	01/20/15 07:14	01/22/15 02:02	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	01/20/15 07:14	01/22/15 02:02	1
Pentachlorophenol	<750		750	590	ug/Kg	☼	01/20/15 07:14	01/22/15 02:02	1
Phenanthrene	28	J	37	5.2	ug/Kg	☼	01/20/15 07:14	01/22/15 02:02	1
Phenol	<190		190	82	ug/Kg	☼	01/20/15 07:14	01/22/15 02:02	1
Pyrene	27	J	37	7.4	ug/Kg	☼	01/20/15 07:14	01/22/15 02:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	55		35 - 137				01/20/15 07:14	01/22/15 02:02	1
2-Fluorobiphenyl	56		25 - 119				01/20/15 07:14	01/22/15 02:02	1
2-Fluorophenol	55		25 - 110				01/20/15 07:14	01/22/15 02:02	1
Nitrobenzene-d5	49		25 - 115				01/20/15 07:14	01/22/15 02:02	1
Phenol-d5	61		31 - 110				01/20/15 07:14	01/22/15 02:02	1
Terphenyl-d14	98		36 - 134				01/20/15 07:14	01/22/15 02:02	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/21/15 08:45	01/22/15 01:48	1
Barium	0.33	J	0.50	0.050	mg/L		01/21/15 08:45	01/22/15 01:48	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/21/15 08:45	01/22/15 01:48	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/21/15 08:45	01/22/15 01:48	1
Chromium	<0.025		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 01:48	1
Cobalt	<0.025		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 01:48	1
Copper	0.016	J	0.025	0.010	mg/L		01/21/15 08:45	01/22/15 01:48	1
Iron	<0.20		0.20	0.20	mg/L		01/21/15 08:45	01/22/15 01:48	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/21/15 08:45	01/22/15 01:48	1
Manganese	1.4		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 01:48	1
Nickel	0.019	J	0.025	0.010	mg/L		01/21/15 08:45	01/22/15 01:48	1
Selenium	<0.050		0.050	0.020	mg/L		01/21/15 08:45	01/22/15 01:48	1
Silver	<0.025		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 01:48	1
Zinc	0.046	J	0.10	0.020	mg/L		01/21/15 08:45	01/22/15 01:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.030	J	0.050	0.010	mg/L		01/21/15 09:30	01/22/15 15:30	1
Barium	0.40	J	0.50	0.050	mg/L		01/21/15 09:30	01/22/15 15:30	1
Beryllium	0.0067		0.0040	0.0040	mg/L		01/21/15 09:30	01/22/15 15:30	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/21/15 09:30	01/22/15 15:30	1
Chromium	0.16		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 15:30	1
Cobalt	0.078		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 15:30	1
Copper	0.21		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 15:30	1
Iron	110		0.20	0.20	mg/L		01/21/15 09:30	01/22/15 15:30	1
Lead	0.080		0.0075	0.0075	mg/L		01/21/15 09:30	01/22/15 15:30	1
Manganese	1.2		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 15:30	1
Nickel	0.19		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 15:30	1
Selenium	<0.050		0.050	0.020	mg/L		01/21/15 09:30	01/22/15 15:30	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90936-1

Client Sample ID: ROW-15(0-3)-011515

Lab Sample ID: 500-90936-7

Date Collected: 01/16/15 08:30

Matrix: Solid

Date Received: 01/16/15 16:00

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		01/21/15 09:30	01/22/15 15:30	1
Zinc	0.32		0.10	0.020	mg/L		01/21/15 09:30	01/22/15 15:30	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.44	J B	1.1	0.22	mg/Kg	☼	01/19/15 16:20	01/21/15 03:55	1
Arsenic	5.2		0.53	0.24	mg/Kg	☼	01/19/15 16:20	01/21/15 03:55	1
Barium	60		0.53	0.097	mg/Kg	☼	01/19/15 16:20	01/21/15 03:55	1
Beryllium	0.66		0.21	0.046	mg/Kg	☼	01/19/15 16:20	01/21/15 03:55	1
Cadmium	<0.11		0.11	0.031	mg/Kg	☼	01/19/15 16:20	01/21/15 18:51	1
Calcium	74000		110	34	mg/Kg	☼	01/19/15 16:20	01/21/15 18:56	10
Chromium	19		0.53	0.091	mg/Kg	☼	01/19/15 16:20	01/21/15 03:55	1
Cobalt	9.5		0.26	0.060	mg/Kg	☼	01/19/15 16:20	01/21/15 03:55	1
Copper	20		0.53	0.11	mg/Kg	☼	01/19/15 16:20	01/21/15 03:55	1
Iron	17000		11	4.1	mg/Kg	☼	01/19/15 16:20	01/21/15 03:55	1
Lead	11		0.26	0.13	mg/Kg	☼	01/19/15 16:20	01/21/15 03:55	1
Magnesium	31000		5.3	2.1	mg/Kg	☼	01/19/15 16:20	01/21/15 03:55	1
Manganese	420		0.53	0.10	mg/Kg	☼	01/19/15 16:20	01/21/15 03:55	1
Nickel	25		0.53	0.14	mg/Kg	☼	01/19/15 16:20	01/21/15 03:55	1
Potassium	3900		26	4.3	mg/Kg	☼	01/19/15 16:20	01/21/15 03:55	1
Selenium	<0.53		0.53	0.26	mg/Kg	☼	01/19/15 16:20	01/21/15 03:55	1
Silver	<0.26		0.26	0.062	mg/Kg	☼	01/19/15 16:20	01/21/15 03:55	1
Sodium	1700		53	7.0	mg/Kg	☼	01/19/15 16:20	01/21/15 03:55	1
Thallium	0.62		0.53	0.26	mg/Kg	☼	01/19/15 16:20	01/21/15 03:55	1
Vanadium	21		0.26	0.077	mg/Kg	☼	01/19/15 16:20	01/21/15 03:55	1
Zinc	46	B	1.1	0.33	mg/Kg	☼	01/19/15 16:20	01/21/15 03:55	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		01/21/15 11:30	01/22/15 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		01/21/15 11:30	01/22/15 10:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	17	J	18	6.4	ug/Kg	☼	01/19/15 14:30	01/20/15 09:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.91		0.200	0.200	SU			01/21/15 11:33	1

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90936-1

Client Sample ID: ROW-16(0-3)-011515

Lab Sample ID: 500-90936-8

Date Collected: 01/16/15 08:40

Matrix: Solid

Date Received: 01/16/15 16:00

Percent Solids: 87.4

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	8.1		5.7	2.5	ug/Kg	☼		01/21/15 16:10	1
Benzene	<5.7		5.7	0.78	ug/Kg	☼		01/21/15 16:10	1
Bromodichloromethane	<5.7		5.7	0.99	ug/Kg	☼		01/21/15 16:10	1
Bromoform	<5.7		5.7	1.3	ug/Kg	☼		01/21/15 16:10	1
Bromomethane	<5.7		5.7	1.7	ug/Kg	☼		01/21/15 16:10	1
Carbon disulfide	<5.7		5.7	0.86	ug/Kg	☼		01/21/15 16:10	1
Carbon tetrachloride	<5.7		5.7	1.0	ug/Kg	☼		01/21/15 16:10	1
Chlorobenzene	<5.7		5.7	0.58	ug/Kg	☼		01/21/15 16:10	1
Chloroethane	<5.7		5.7	1.6	ug/Kg	☼		01/21/15 16:10	1
Chloroform	<5.7		5.7	0.66	ug/Kg	☼		01/21/15 16:10	1
Chloromethane	<5.7		5.7	1.2	ug/Kg	☼		01/21/15 16:10	1
cis-1,2-Dichloroethene	<5.7		5.7	0.81	ug/Kg	☼		01/21/15 16:10	1
cis-1,3-Dichloropropene	<5.7		5.7	0.75	ug/Kg	☼		01/21/15 16:10	1
Dibromochloromethane	<5.7		5.7	1.0	ug/Kg	☼		01/21/15 16:10	1
1,1-Dichloroethane	<5.7		5.7	0.91	ug/Kg	☼		01/21/15 16:10	1
1,2-Dichloroethane	<5.7		5.7	0.85	ug/Kg	☼		01/21/15 16:10	1
1,1,1-Dichloroethane	<5.7		5.7	0.92	ug/Kg	☼		01/21/15 16:10	1
1,2-Dichloropropane	<5.7		5.7	0.87	ug/Kg	☼		01/21/15 16:10	1
1,3-Dichloropropene, Total	<5.7		5.7	0.75	ug/Kg	☼		01/21/15 16:10	1
Ethylbenzene	<5.7		5.7	1.2	ug/Kg	☼		01/21/15 16:10	1
2-Hexanone	<5.7		5.7	1.6	ug/Kg	☼		01/21/15 16:10	1
Methylene Chloride	<5.7		5.7	1.5	ug/Kg	☼		01/21/15 16:10	1
Methyl Ethyl Ketone	<5.7		5.7	2.1	ug/Kg	☼		01/21/15 16:10	1
methyl isobutyl ketone	<5.7		5.7	1.5	ug/Kg	☼		01/21/15 16:10	1
Methyl tert-butyl ether	<5.7		5.7	0.95	ug/Kg	☼		01/21/15 16:10	1
Styrene	<5.7		5.7	0.75	ug/Kg	☼		01/21/15 16:10	1
1,1,1,2-Tetrachloroethane	<5.7		5.7	1.2	ug/Kg	☼		01/21/15 16:10	1
Tetrachloroethene	<5.7		5.7	0.87	ug/Kg	☼		01/21/15 16:10	1
Toluene	<5.7		5.7	0.80	ug/Kg	☼		01/21/15 16:10	1
trans-1,2-Dichloroethene	<5.7		5.7	0.79	ug/Kg	☼		01/21/15 16:10	1
trans-1,3-Dichloropropene	<5.7		5.7	1.0	ug/Kg	☼		01/21/15 16:10	1
1,1,1-Trichloroethane	<5.7		5.7	0.86	ug/Kg	☼		01/21/15 16:10	1
1,1,2-Trichloroethane	<5.7		5.7	0.78	ug/Kg	☼		01/21/15 16:10	1
Trichloroethene	<5.7		5.7	0.94	ug/Kg	☼		01/21/15 16:10	1
Vinyl chloride	<5.7		5.7	1.2	ug/Kg	☼		01/21/15 16:10	1
Xylenes, Total	<11		11	0.52	ug/Kg	☼		01/21/15 16:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 122		01/21/15 16:10	1
Dibromofluoromethane	104		75 - 120		01/21/15 16:10	1
1,2-Dichloroethane-d4 (Surr)	117		70 - 134		01/21/15 16:10	1
Toluene-d8 (Surr)	93		75 - 122		01/21/15 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	<180		180	39	ug/Kg	☼	01/20/15 07:14	01/22/15 21:20	1
1,2-Dichlorobenzene	<180		180	44	ug/Kg	☼	01/20/15 07:14	01/22/15 21:20	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	01/20/15 07:14	01/22/15 21:20	1
1,4-Dichlorobenzene	<180		180	47	ug/Kg	☼	01/20/15 07:14	01/22/15 21:20	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	01/20/15 07:14	01/22/15 21:20	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90936-1

Client Sample ID: ROW-16(0-3)-011515

Lab Sample ID: 500-90936-8

Date Collected: 01/16/15 08:40

Matrix: Solid

Date Received: 01/16/15 16:00

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	<360		360	83	ug/Kg	*	01/20/15 07:14	01/22/15 21:20	1
2,4,6-Trichlorophenol	<360		360	130	ug/Kg	*	01/20/15 07:14	01/22/15 21:20	1
2,4-Dichlorophenol	<360		360	87	ug/Kg	*	01/20/15 07:14	01/22/15 21:20	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	*	01/20/15 07:14	01/22/15 21:20	1
2,4-Dinitrophenol	<740		740	640	ug/Kg	*	01/20/15 07:14	01/22/15 21:20	1
2,4-Dinitrotoluene	<180		180	58	ug/Kg	*	01/20/15 07:14	01/22/15 21:20	1
2,6-Dinitrotoluene	<180		180	72	ug/Kg	*	01/20/15 07:14	01/22/15 21:20	1
2-Chloronaphthalene	<180		180	40	ug/Kg	*	01/20/15 07:14	01/22/15 21:20	1
2-Chlorophenol	<180		180	62	ug/Kg	*	01/20/15 07:14	01/22/15 21:20	1
2-Methylnaphthalene	21	J	36	6.7	ug/Kg	*	01/20/15 07:14	01/22/15 21:20	1
2-Methylphenol	<180		180	59	ug/Kg	*	01/20/15 07:14	01/22/15 21:20	1
2-Nitroaniline	<180		180	49	ug/Kg	*	01/20/15 07:14	01/22/15 21:20	1
2-Nitrophenol	<360		360	86	ug/Kg	*	01/20/15 07:14	01/22/15 21:20	1
3 & 4 Methylphenol	<180		180	61	ug/Kg	*	01/20/15 07:14	01/22/15 21:20	1
3,3'-Dichlorobenzidine	<180		180	51	ug/Kg	*	01/20/15 07:14	01/22/15 21:20	1
3-Nitroaniline	<360		360	110	ug/Kg	*	01/20/15 07:14	01/22/15 21:20	1
4,6-Dinitro-2-methylphenol	<360		360	290	ug/Kg	*	01/20/15 07:14	01/22/15 21:20	1
4-Bromophenyl phenyl ether	<180		180	48	ug/Kg	*	01/20/15 07:14	01/22/15 21:20	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	*	01/20/15 07:14	01/22/15 21:20	1
4-Chloroaniline	<740		740	170	ug/Kg	*	01/20/15 07:14	01/22/15 21:20	1
4-Chlorophenyl phenyl ether	<180		180	43	ug/Kg	*	01/20/15 07:14	01/22/15 21:20	1
4-Nitroaniline	<360		360	150	ug/Kg	*	01/20/15 07:14	01/22/15 21:20	1
4-Nitrophenol	<740		740	350	ug/Kg	*	01/20/15 07:14	01/22/15 21:20	1
Acenaphthene	<36		36	6.6	ug/Kg	*	01/20/15 07:14	01/22/15 21:20	1
Acenaphthylene	<36		36	4.8	ug/Kg	*	01/20/15 07:14	01/22/15 21:20	1
Anthracene	<36		36	6.1	ug/Kg	*	01/20/15 07:14	01/22/15 21:20	1
Benzo[a]anthracene	17	J	36	4.9	ug/Kg	*	01/20/15 07:14	01/22/15 21:20	1
Benzo[a]pyrene	21	J	36	7.1	ug/Kg	*	01/20/15 07:14	01/22/15 21:20	1
Benzo[b]fluoranthene	33	J	36	7.9	ug/Kg	*	01/20/15 07:14	01/22/15 21:20	1
Benzo[g,h,i]perylene	29	J	36	12	ug/Kg	*	01/20/15 07:14	01/22/15 21:20	1
Benzo[k]fluoranthene	13	J	36	11	ug/Kg	*	01/20/15 07:14	01/22/15 21:20	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	*	01/20/15 07:14	01/22/15 21:20	1
Bis(2-chloroethyl)ether	<180		180	55	ug/Kg	*	01/20/15 07:14	01/22/15 21:20	1
Bis(2-ethylhexyl) phthalate	<180		180	67	ug/Kg	*	01/20/15 07:14	01/22/15 21:20	1
Butyl benzyl phthalate	<180		180	70	ug/Kg	*	01/20/15 07:14	01/22/15 21:20	1
Carbazole	<180		180	94	ug/Kg	*	01/20/15 07:14	01/22/15 21:20	1
Chrysene	26	J	36	10	ug/Kg	*	01/20/15 07:14	01/22/15 21:20	1
Dibenz(a,h)anthracene	<36		36	7.1	ug/Kg	*	01/20/15 07:14	01/22/15 21:20	1
Dibenzofuran	<180		180	43	ug/Kg	*	01/20/15 07:14	01/22/15 21:20	1
Diethyl phthalate	<180		180	62	ug/Kg	*	01/20/15 07:14	01/22/15 21:20	1
Dimethyl phthalate	<180		180	48	ug/Kg	*	01/20/15 07:14	01/22/15 21:20	1
Di-n-butyl phthalate	<180		180	56	ug/Kg	*	01/20/15 07:14	01/22/15 21:20	1
Di-n-octyl phthalate	<180		180	60	ug/Kg	*	01/20/15 07:14	01/22/15 21:20	1
Fluoranthene	<36		36	6.8	ug/Kg	*	01/20/15 07:14	01/22/15 21:20	1
Fluorene	<36		36	5.1	ug/Kg	*	01/20/15 07:14	01/22/15 21:20	1
Hexachlorobenzene	<74		74	8.5	ug/Kg	*	01/20/15 07:14	01/22/15 21:20	1
Hexachlorobutadiene	<180		180	57	ug/Kg	*	01/20/15 07:14	01/22/15 21:20	1
Hexachlorocyclopentadiene	<740		740	210	ug/Kg	*	01/20/15 07:14	01/22/15 21:20	1
Hexachloroethane	<180		180	56	ug/Kg	*	01/20/15 07:14	01/22/15 21:20	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90936-1

Client Sample ID: ROW-16(0-3)-011515

Lab Sample ID: 500-90936-8

Date Collected: 01/16/15 08:40

Matrix: Solid

Date Received: 01/16/15 16:00

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	18	J	36	9.5	ug/Kg	☼	01/20/15 07:14	01/22/15 21:20	1
Isophorone	<180		180	41	ug/Kg	☼	01/20/15 07:14	01/22/15 21:20	1
Naphthalene	<36		36	5.6	ug/Kg	☼	01/20/15 07:14	01/22/15 21:20	1
Nitrobenzene	<36		36	9.1	ug/Kg	☼	01/20/15 07:14	01/22/15 21:20	1
N-Nitrosodi-n-propylamine	<180		180	45	ug/Kg	☼	01/20/15 07:14	01/22/15 21:20	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	01/20/15 07:14	01/22/15 21:20	1
Pentachlorophenol	<740		740	590	ug/Kg	☼	01/20/15 07:14	01/22/15 21:20	1
Phenanthrene	8.9	J	36	5.1	ug/Kg	☼	01/20/15 07:14	01/22/15 21:20	1
Phenol	<180		180	81	ug/Kg	☼	01/20/15 07:14	01/22/15 21:20	1
Pyrene	35	J	36	7.3	ug/Kg	☼	01/20/15 07:14	01/22/15 21:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	43		35 - 137				01/20/15 07:14	01/22/15 21:20	1
2-Fluorobiphenyl	46		25 - 119				01/20/15 07:14	01/22/15 21:20	1
2-Fluorophenol	48		25 - 110				01/20/15 07:14	01/22/15 21:20	1
Nitrobenzene-d5	42		25 - 115				01/20/15 07:14	01/22/15 21:20	1
Phenol-d5	51		31 - 110				01/20/15 07:14	01/22/15 21:20	1
Terphenyl-d14	61		36 - 134				01/20/15 07:14	01/22/15 21:20	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/21/15 08:45	01/22/15 01:55	1
Barium	0.16	J	0.50	0.050	mg/L		01/21/15 08:45	01/22/15 01:55	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/21/15 08:45	01/22/15 01:55	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/21/15 08:45	01/22/15 01:55	1
Chromium	<0.025		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 01:55	1
Cobalt	0.010	J	0.025	0.010	mg/L		01/21/15 08:45	01/22/15 01:55	1
Copper	0.040		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 01:55	1
Iron	<0.20		0.20	0.20	mg/L		01/21/15 08:45	01/22/15 01:55	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/21/15 08:45	01/22/15 01:55	1
Manganese	1.4		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 01:55	1
Nickel	0.028		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 01:55	1
Selenium	<0.050		0.050	0.020	mg/L		01/21/15 08:45	01/22/15 01:55	1
Silver	<0.025		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 01:55	1
Zinc	0.052	J	0.10	0.020	mg/L		01/21/15 08:45	01/22/15 01:55	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		01/21/15 09:30	01/22/15 15:36	1
Barium	<0.50		0.50	0.050	mg/L		01/21/15 09:30	01/22/15 15:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/21/15 09:30	01/22/15 15:36	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/21/15 09:30	01/22/15 15:36	1
Chromium	<0.025		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 15:36	1
Cobalt	<0.025		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 15:36	1
Copper	0.041		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 15:36	1
Iron	0.35		0.20	0.20	mg/L		01/21/15 09:30	01/22/15 15:36	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/21/15 09:30	01/22/15 15:36	1
Manganese	0.034		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 15:36	1
Nickel	<0.025		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 15:36	1
Selenium	<0.050		0.050	0.020	mg/L		01/21/15 09:30	01/22/15 15:36	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90936-1

Client Sample ID: ROW-16(0-3)-011515

Lab Sample ID: 500-90936-8

Date Collected: 01/16/15 08:40

Matrix: Solid

Date Received: 01/16/15 16:00

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		01/21/15 09:30	01/22/15 15:36	1
Zinc	0.043	J	0.10	0.020	mg/L		01/21/15 09:30	01/22/15 15:36	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.37	J B	1.1	0.23	mg/Kg	☼	01/19/15 16:20	01/21/15 04:02	1
Arsenic	5.4		0.56	0.26	mg/Kg	☼	01/19/15 16:20	01/21/15 04:02	1
Barium	39		0.56	0.10	mg/Kg	☼	01/19/15 16:20	01/21/15 04:02	1
Beryllium	0.63		0.22	0.048	mg/Kg	☼	01/19/15 16:20	01/21/15 04:02	1
Cadmium	<0.11		0.11	0.032	mg/Kg	☼	01/19/15 16:20	01/21/15 19:00	1
Calcium	76000		110	36	mg/Kg	☼	01/19/15 16:20	01/21/15 19:05	10
Chromium	18		0.56	0.095	mg/Kg	☼	01/19/15 16:20	01/21/15 04:02	1
Cobalt	9.0		0.28	0.063	mg/Kg	☼	01/19/15 16:20	01/21/15 04:02	1
Copper	21		0.56	0.12	mg/Kg	☼	01/19/15 16:20	01/21/15 04:02	1
Iron	17000		11	4.3	mg/Kg	☼	01/19/15 16:20	01/21/15 04:02	1
Lead	11		0.28	0.14	mg/Kg	☼	01/19/15 16:20	01/21/15 04:02	1
Magnesium	30000		5.6	2.3	mg/Kg	☼	01/19/15 16:20	01/21/15 04:02	1
Manganese	410		0.56	0.11	mg/Kg	☼	01/19/15 16:20	01/21/15 04:02	1
Nickel	24		0.56	0.15	mg/Kg	☼	01/19/15 16:20	01/21/15 04:02	1
Potassium	3700		28	4.5	mg/Kg	☼	01/19/15 16:20	01/21/15 04:02	1
Selenium	<0.56		0.56	0.27	mg/Kg	☼	01/19/15 16:20	01/21/15 04:02	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	01/19/15 16:20	01/21/15 04:02	1
Sodium	740		56	7.3	mg/Kg	☼	01/19/15 16:20	01/21/15 04:02	1
Thallium	0.54	J	0.56	0.27	mg/Kg	☼	01/19/15 16:20	01/21/15 04:02	1
Vanadium	20		0.28	0.081	mg/Kg	☼	01/19/15 16:20	01/21/15 04:02	1
Zinc	46	B	1.1	0.35	mg/Kg	☼	01/19/15 16:20	01/21/15 04:02	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		01/21/15 11:30	01/22/15 09:35	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		01/21/15 11:30	01/22/15 10:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	13	J	19	6.5	ug/Kg	☼	01/19/15 14:30	01/20/15 09:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.91		0.200	0.200	SU			01/21/15 11:42	1

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90936-1

Client Sample ID: ROW-16(0-3)-011515D

Lab Sample ID: 500-90936-9

Date Collected: 01/16/15 08:40

Matrix: Solid

Date Received: 01/16/15 16:00

Percent Solids: 87.8

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10		5.7	2.5	ug/Kg	☼		01/21/15 16:34	1
Benzene	<5.7		5.7	0.78	ug/Kg	☼		01/21/15 16:34	1
Bromodichloromethane	<5.7		5.7	0.98	ug/Kg	☼		01/21/15 16:34	1
Bromoform	<5.7		5.7	1.3	ug/Kg	☼		01/21/15 16:34	1
Bromomethane	<5.7		5.7	1.7	ug/Kg	☼		01/21/15 16:34	1
Carbon disulfide	<5.7		5.7	0.85	ug/Kg	☼		01/21/15 16:34	1
Carbon tetrachloride	<5.7		5.7	1.0	ug/Kg	☼		01/21/15 16:34	1
Chlorobenzene	<5.7		5.7	0.58	ug/Kg	☼		01/21/15 16:34	1
Chloroethane	<5.7		5.7	1.5	ug/Kg	☼		01/21/15 16:34	1
Chloroform	<5.7		5.7	0.65	ug/Kg	☼		01/21/15 16:34	1
Chloromethane	<5.7		5.7	1.2	ug/Kg	☼		01/21/15 16:34	1
cis-1,2-Dichloroethene	<5.7		5.7	0.81	ug/Kg	☼		01/21/15 16:34	1
cis-1,3-Dichloropropene	<5.7		5.7	0.75	ug/Kg	☼		01/21/15 16:34	1
Dibromochloromethane	<5.7		5.7	0.99	ug/Kg	☼		01/21/15 16:34	1
1,1-Dichloroethane	<5.7		5.7	0.90	ug/Kg	☼		01/21/15 16:34	1
1,2-Dichloroethane	<5.7		5.7	0.84	ug/Kg	☼		01/21/15 16:34	1
1,1-Dichloroethene	<5.7		5.7	0.92	ug/Kg	☼		01/21/15 16:34	1
1,2-Dichloropropane	<5.7		5.7	0.86	ug/Kg	☼		01/21/15 16:34	1
1,3-Dichloropropene, Total	<5.7		5.7	0.75	ug/Kg	☼		01/21/15 16:34	1
Ethylbenzene	<5.7		5.7	1.2	ug/Kg	☼		01/21/15 16:34	1
2-Hexanone	<5.7		5.7	1.6	ug/Kg	☼		01/21/15 16:34	1
Methylene Chloride	<5.7		5.7	1.5	ug/Kg	☼		01/21/15 16:34	1
Methyl Ethyl Ketone	<5.7		5.7	2.1	ug/Kg	☼		01/21/15 16:34	1
methyl isobutyl ketone	<5.7		5.7	1.5	ug/Kg	☼		01/21/15 16:34	1
Methyl tert-butyl ether	<5.7		5.7	0.94	ug/Kg	☼		01/21/15 16:34	1
Styrene	<5.7		5.7	0.75	ug/Kg	☼		01/21/15 16:34	1
1,1,1,2-Tetrachloroethane	<5.7		5.7	1.2	ug/Kg	☼		01/21/15 16:34	1
Tetrachloroethene	<5.7		5.7	0.87	ug/Kg	☼		01/21/15 16:34	1
Toluene	<5.7		5.7	0.80	ug/Kg	☼		01/21/15 16:34	1
trans-1,2-Dichloroethene	<5.7		5.7	0.78	ug/Kg	☼		01/21/15 16:34	1
trans-1,3-Dichloropropene	<5.7		5.7	1.0	ug/Kg	☼		01/21/15 16:34	1
1,1,1-Trichloroethane	<5.7		5.7	0.85	ug/Kg	☼		01/21/15 16:34	1
1,1,2-Trichloroethane	<5.7		5.7	0.78	ug/Kg	☼		01/21/15 16:34	1
Trichloroethene	<5.7		5.7	0.94	ug/Kg	☼		01/21/15 16:34	1
Vinyl chloride	<5.7		5.7	1.2	ug/Kg	☼		01/21/15 16:34	1
Xylenes, Total	<11		11	0.52	ug/Kg	☼		01/21/15 16:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122		01/21/15 16:34	1
Dibromofluoromethane	108		75 - 120		01/21/15 16:34	1
1,2-Dichloroethane-d4 (Surr)	116		70 - 134		01/21/15 16:34	1
Toluene-d8 (Surr)	95		75 - 122		01/21/15 16:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	40	ug/Kg	☼	01/20/15 07:14	01/22/15 21:40	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	01/20/15 07:14	01/22/15 21:40	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	01/20/15 07:14	01/22/15 21:40	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	01/20/15 07:14	01/22/15 21:40	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	01/20/15 07:14	01/22/15 21:40	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90936-1

Client Sample ID: ROW-16(0-3)-011515D

Lab Sample ID: 500-90936-9

Date Collected: 01/16/15 08:40

Matrix: Solid

Date Received: 01/16/15 16:00

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	85	ug/Kg	☼	01/20/15 07:14	01/22/15 21:40	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	01/20/15 07:14	01/22/15 21:40	1
2,4-Dichlorophenol	<370		370	89	ug/Kg	☼	01/20/15 07:14	01/22/15 21:40	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	01/20/15 07:14	01/22/15 21:40	1
2,4-Dinitrophenol	<750		750	660	ug/Kg	☼	01/20/15 07:14	01/22/15 21:40	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	01/20/15 07:14	01/22/15 21:40	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	01/20/15 07:14	01/22/15 21:40	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	01/20/15 07:14	01/22/15 21:40	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	01/20/15 07:14	01/22/15 21:40	1
2-Methylnaphthalene	24	J	37	6.9	ug/Kg	☼	01/20/15 07:14	01/22/15 21:40	1
2-Methylphenol	<190		190	60	ug/Kg	☼	01/20/15 07:14	01/22/15 21:40	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	01/20/15 07:14	01/22/15 21:40	1
2-Nitrophenol	<370		370	88	ug/Kg	☼	01/20/15 07:14	01/22/15 21:40	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	01/20/15 07:14	01/22/15 21:40	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	01/20/15 07:14	01/22/15 21:40	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	01/20/15 07:14	01/22/15 21:40	1
4,6-Dinitro-2-methylphenol	<370		370	300	ug/Kg	☼	01/20/15 07:14	01/22/15 21:40	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	01/20/15 07:14	01/22/15 21:40	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	01/20/15 07:14	01/22/15 21:40	1
4-Chloroaniline	<750		750	180	ug/Kg	☼	01/20/15 07:14	01/22/15 21:40	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	01/20/15 07:14	01/22/15 21:40	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	01/20/15 07:14	01/22/15 21:40	1
4-Nitrophenol	<750		750	350	ug/Kg	☼	01/20/15 07:14	01/22/15 21:40	1
Acenaphthene	<37		37	6.7	ug/Kg	☼	01/20/15 07:14	01/22/15 21:40	1
Acenaphthylene	<37		37	4.9	ug/Kg	☼	01/20/15 07:14	01/22/15 21:40	1
Anthracene	<37		37	6.2	ug/Kg	☼	01/20/15 07:14	01/22/15 21:40	1
Benzo[a]anthracene	14	J	37	5.0	ug/Kg	☼	01/20/15 07:14	01/22/15 21:40	1
Benzo[a]pyrene	18	J	37	7.2	ug/Kg	☼	01/20/15 07:14	01/22/15 21:40	1
Benzo[b]fluoranthene	32	J	37	8.0	ug/Kg	☼	01/20/15 07:14	01/22/15 21:40	1
Benzo[g,h,i]perylene	29	J	37	12	ug/Kg	☼	01/20/15 07:14	01/22/15 21:40	1
Benzo[k]fluoranthene	<37		37	11	ug/Kg	☼	01/20/15 07:14	01/22/15 21:40	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	01/20/15 07:14	01/22/15 21:40	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	01/20/15 07:14	01/22/15 21:40	1
Bis(2-ethylhexyl) phthalate	<190		190	68	ug/Kg	☼	01/20/15 07:14	01/22/15 21:40	1
Butyl benzyl phthalate	<190		190	71	ug/Kg	☼	01/20/15 07:14	01/22/15 21:40	1
Carbazole	<190		190	96	ug/Kg	☼	01/20/15 07:14	01/22/15 21:40	1
Chrysene	27	J	37	10	ug/Kg	☼	01/20/15 07:14	01/22/15 21:40	1
Dibenz(a,h)anthracene	<37		37	7.2	ug/Kg	☼	01/20/15 07:14	01/22/15 21:40	1
Dibenzofuran	<190		190	44	ug/Kg	☼	01/20/15 07:14	01/22/15 21:40	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	01/20/15 07:14	01/22/15 21:40	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	01/20/15 07:14	01/22/15 21:40	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	01/20/15 07:14	01/22/15 21:40	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	01/20/15 07:14	01/22/15 21:40	1
Fluoranthene	<37		37	6.9	ug/Kg	☼	01/20/15 07:14	01/22/15 21:40	1
Fluorene	<37		37	5.2	ug/Kg	☼	01/20/15 07:14	01/22/15 21:40	1
Hexachlorobenzene	<75		75	8.6	ug/Kg	☼	01/20/15 07:14	01/22/15 21:40	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	01/20/15 07:14	01/22/15 21:40	1
Hexachlorocyclopentadiene	<750		750	210	ug/Kg	☼	01/20/15 07:14	01/22/15 21:40	1
Hexachloroethane	<190		190	57	ug/Kg	☼	01/20/15 07:14	01/22/15 21:40	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90936-1

Client Sample ID: ROW-16(0-3)-011515D

Lab Sample ID: 500-90936-9

Date Collected: 01/16/15 08:40

Matrix: Solid

Date Received: 01/16/15 16:00

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	16	J	37	9.7	ug/Kg	☼	01/20/15 07:14	01/22/15 21:40	1
Isophorone	<190		190	42	ug/Kg	☼	01/20/15 07:14	01/22/15 21:40	1
Naphthalene	7.7	J	37	5.7	ug/Kg	☼	01/20/15 07:14	01/22/15 21:40	1
Nitrobenzene	<37		37	9.3	ug/Kg	☼	01/20/15 07:14	01/22/15 21:40	1
N-Nitrosodi-n-propylamine	<190		190	46	ug/Kg	☼	01/20/15 07:14	01/22/15 21:40	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	01/20/15 07:14	01/22/15 21:40	1
Pentachlorophenol	<750		750	600	ug/Kg	☼	01/20/15 07:14	01/22/15 21:40	1
Phenanthrene	19	J	37	5.2	ug/Kg	☼	01/20/15 07:14	01/22/15 21:40	1
Phenol	<190		190	83	ug/Kg	☼	01/20/15 07:14	01/22/15 21:40	1
Pyrene	35	J	37	7.4	ug/Kg	☼	01/20/15 07:14	01/22/15 21:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>2,4,6-Tribromophenol</i>	46		35 - 137				01/20/15 07:14	01/22/15 21:40	1
<i>2-Fluorobiphenyl</i>	50		25 - 119				01/20/15 07:14	01/22/15 21:40	1
<i>2-Fluorophenol</i>	54		25 - 110				01/20/15 07:14	01/22/15 21:40	1
<i>Nitrobenzene-d5</i>	47		25 - 115				01/20/15 07:14	01/22/15 21:40	1
<i>Phenol-d5</i>	51		31 - 110				01/20/15 07:14	01/22/15 21:40	1
<i>Terphenyl-d14</i>	68		36 - 134				01/20/15 07:14	01/22/15 21:40	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/21/15 08:45	01/22/15 02:01	1
Barium	0.24	J	0.50	0.050	mg/L		01/21/15 08:45	01/22/15 02:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/21/15 08:45	01/22/15 02:01	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/21/15 08:45	01/22/15 02:01	1
Chromium	<0.025		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 02:01	1
Cobalt	0.015	J	0.025	0.010	mg/L		01/21/15 08:45	01/22/15 02:01	1
Copper	0.017	J	0.025	0.010	mg/L		01/21/15 08:45	01/22/15 02:01	1
Iron	<0.20		0.20	0.20	mg/L		01/21/15 08:45	01/22/15 02:01	1
Lead	0.10		0.0075	0.0075	mg/L		01/21/15 08:45	01/22/15 02:01	1
Manganese	1.9		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 02:01	1
Nickel	0.037		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 02:01	1
Selenium	<0.050		0.050	0.020	mg/L		01/21/15 08:45	01/22/15 02:01	1
Silver	<0.025		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 02:01	1
Zinc	0.046	J	0.10	0.020	mg/L		01/21/15 08:45	01/22/15 02:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/21/15 09:30	01/22/15 15:42	1
Barium	<0.50		0.50	0.050	mg/L		01/21/15 09:30	01/22/15 15:42	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/21/15 09:30	01/22/15 15:42	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/21/15 09:30	01/22/15 15:42	1
Chromium	<0.025		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 15:42	1
Cobalt	<0.025		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 15:42	1
Copper	0.058		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 15:42	1
Iron	0.68		0.20	0.20	mg/L		01/21/15 09:30	01/22/15 15:42	1
Lead	0.0084		0.0075	0.0075	mg/L		01/21/15 09:30	01/22/15 15:42	1
Manganese	0.041		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 15:42	1
Nickel	<0.025		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 15:42	1
Selenium	<0.050		0.050	0.020	mg/L		01/21/15 09:30	01/22/15 15:42	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90936-1

Client Sample ID: ROW-16(0-3)-011515D

Lab Sample ID: 500-90936-9

Date Collected: 01/16/15 08:40

Matrix: Solid

Date Received: 01/16/15 16:00

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		01/21/15 09:30	01/22/15 15:42	1
Zinc	0.052	J	0.10	0.020	mg/L		01/21/15 09:30	01/22/15 15:42	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.41	J B	1.1	0.22	mg/Kg	☼	01/19/15 16:20	01/21/15 04:23	1
Arsenic	5.9		0.53	0.25	mg/Kg	☼	01/19/15 16:20	01/21/15 04:23	1
Barium	47		0.53	0.098	mg/Kg	☼	01/19/15 16:20	01/21/15 04:23	1
Beryllium	0.62		0.21	0.046	mg/Kg	☼	01/19/15 16:20	01/21/15 04:23	1
Cadmium	0.082	J	0.11	0.031	mg/Kg	☼	01/19/15 16:20	01/21/15 19:09	1
Calcium	78000		110	34	mg/Kg	☼	01/19/15 16:20	01/21/15 19:21	10
Chromium	18		0.53	0.092	mg/Kg	☼	01/19/15 16:20	01/21/15 04:23	1
Cobalt	8.6		0.27	0.060	mg/Kg	☼	01/19/15 16:20	01/21/15 04:23	1
Copper	23		0.53	0.12	mg/Kg	☼	01/19/15 16:20	01/21/15 04:23	1
Iron	17000		11	4.1	mg/Kg	☼	01/19/15 16:20	01/21/15 04:23	1
Lead	22		0.27	0.13	mg/Kg	☼	01/19/15 16:20	01/21/15 04:23	1
Magnesium	34000		5.3	2.2	mg/Kg	☼	01/19/15 16:20	01/21/15 04:23	1
Manganese	440		0.53	0.11	mg/Kg	☼	01/19/15 16:20	01/21/15 04:23	1
Nickel	23		0.53	0.14	mg/Kg	☼	01/19/15 16:20	01/21/15 04:23	1
Potassium	3800		27	4.4	mg/Kg	☼	01/19/15 16:20	01/21/15 04:23	1
Selenium	<0.53		0.53	0.26	mg/Kg	☼	01/19/15 16:20	01/21/15 04:23	1
Silver	<0.27		0.27	0.062	mg/Kg	☼	01/19/15 16:20	01/21/15 04:23	1
Sodium	1100		53	7.0	mg/Kg	☼	01/19/15 16:20	01/21/15 04:23	1
Thallium	0.61		0.53	0.26	mg/Kg	☼	01/19/15 16:20	01/21/15 04:23	1
Vanadium	20		0.27	0.078	mg/Kg	☼	01/19/15 16:20	01/21/15 04:23	1
Zinc	48	B	1.1	0.34	mg/Kg	☼	01/19/15 16:20	01/21/15 04:23	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		01/21/15 11:30	01/22/15 09:37	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		01/21/15 11:30	01/22/15 10:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	16	J	19	6.5	ug/Kg	☼	01/19/15 14:30	01/20/15 09:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.72		0.200	0.200	SU			01/21/15 11:50	1

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90936-1

Client Sample ID: ROW-18(0-3)-011515

Lab Sample ID: 500-90936-10

Date Collected: 01/16/15 08:50

Matrix: Solid

Date Received: 01/16/15 16:00

Percent Solids: 90.7

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	9.1		5.5	2.4	ug/Kg	☼		01/21/15 16:58	1
Benzene	<5.5		5.5	0.76	ug/Kg	☼		01/21/15 16:58	1
Bromodichloromethane	<5.5		5.5	0.95	ug/Kg	☼		01/21/15 16:58	1
Bromoform	<5.5		5.5	1.3	ug/Kg	☼		01/21/15 16:58	1
Bromomethane	<5.5		5.5	1.7	ug/Kg	☼		01/21/15 16:58	1
Carbon disulfide	<5.5		5.5	0.82	ug/Kg	☼		01/21/15 16:58	1
Carbon tetrachloride	<5.5		5.5	1.0	ug/Kg	☼		01/21/15 16:58	1
Chlorobenzene	<5.5		5.5	0.56	ug/Kg	☼		01/21/15 16:58	1
Chloroethane	<5.5		5.5	1.5	ug/Kg	☼		01/21/15 16:58	1
Chloroform	<5.5		5.5	0.63	ug/Kg	☼		01/21/15 16:58	1
Chloromethane	<5.5		5.5	1.2	ug/Kg	☼		01/21/15 16:58	1
cis-1,2-Dichloroethene	<5.5		5.5	0.78	ug/Kg	☼		01/21/15 16:58	1
cis-1,3-Dichloropropene	<5.5		5.5	0.72	ug/Kg	☼		01/21/15 16:58	1
Dibromochloromethane	<5.5		5.5	0.96	ug/Kg	☼		01/21/15 16:58	1
1,1-Dichloroethane	<5.5		5.5	0.87	ug/Kg	☼		01/21/15 16:58	1
1,2-Dichloroethane	<5.5		5.5	0.82	ug/Kg	☼		01/21/15 16:58	1
1,1-Dichloroethene	<5.5		5.5	0.89	ug/Kg	☼		01/21/15 16:58	1
1,2-Dichloropropane	<5.5		5.5	0.84	ug/Kg	☼		01/21/15 16:58	1
1,3-Dichloropropene, Total	<5.5		5.5	0.72	ug/Kg	☼		01/21/15 16:58	1
Ethylbenzene	<5.5		5.5	1.1	ug/Kg	☼		01/21/15 16:58	1
2-Hexanone	<5.5		5.5	1.6	ug/Kg	☼		01/21/15 16:58	1
Methylene Chloride	<5.5		5.5	1.5	ug/Kg	☼		01/21/15 16:58	1
Methyl Ethyl Ketone	<5.5		5.5	2.0	ug/Kg	☼		01/21/15 16:58	1
methyl isobutyl ketone	<5.5		5.5	1.4	ug/Kg	☼		01/21/15 16:58	1
Methyl tert-butyl ether	<5.5		5.5	0.91	ug/Kg	☼		01/21/15 16:58	1
Styrene	<5.5		5.5	0.72	ug/Kg	☼		01/21/15 16:58	1
1,1,1,2-Tetrachloroethane	<5.5		5.5	1.1	ug/Kg	☼		01/21/15 16:58	1
Tetrachloroethene	<5.5		5.5	0.84	ug/Kg	☼		01/21/15 16:58	1
Toluene	<5.5		5.5	0.77	ug/Kg	☼		01/21/15 16:58	1
trans-1,2-Dichloroethene	<5.5		5.5	0.76	ug/Kg	☼		01/21/15 16:58	1
trans-1,3-Dichloropropene	<5.5		5.5	0.99	ug/Kg	☼		01/21/15 16:58	1
1,1,1-Trichloroethane	<5.5		5.5	0.82	ug/Kg	☼		01/21/15 16:58	1
1,1,2-Trichloroethane	<5.5		5.5	0.75	ug/Kg	☼		01/21/15 16:58	1
Trichloroethene	<5.5		5.5	0.91	ug/Kg	☼		01/21/15 16:58	1
Vinyl chloride	<5.5		5.5	1.2	ug/Kg	☼		01/21/15 16:58	1
Xylenes, Total	<11		11	0.50	ug/Kg	☼		01/21/15 16:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 122		01/21/15 16:58	1
Dibromofluoromethane	105		75 - 120		01/21/15 16:58	1
1,2-Dichloroethane-d4 (Surr)	115		70 - 134		01/21/15 16:58	1
Toluene-d8 (Surr)	95		75 - 122		01/21/15 16:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<180		180	38	ug/Kg	☼	01/20/15 07:14	01/22/15 03:09	1
1,2-Dichlorobenzene	<180		180	42	ug/Kg	☼	01/20/15 07:14	01/22/15 03:09	1
1,3-Dichlorobenzene	<180		180	39	ug/Kg	☼	01/20/15 07:14	01/22/15 03:09	1
1,4-Dichlorobenzene	<180		180	45	ug/Kg	☼	01/20/15 07:14	01/22/15 03:09	1
2,2'-oxybis[1-chloropropane]	<180		180	40	ug/Kg	☼	01/20/15 07:14	01/22/15 03:09	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90936-1

Client Sample ID: ROW-18(0-3)-011515

Lab Sample ID: 500-90936-10

Date Collected: 01/16/15 08:50

Matrix: Solid

Date Received: 01/16/15 16:00

Percent Solids: 90.7

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	80	ug/Kg	☼	01/20/15 07:14	01/22/15 03:09	1
2,4,6-Trichlorophenol	<350		350	120	ug/Kg	☼	01/20/15 07:14	01/22/15 03:09	1
2,4-Dichlorophenol	<350		350	83	ug/Kg	☼	01/20/15 07:14	01/22/15 03:09	1
2,4-Dimethylphenol	<350		350	130	ug/Kg	☼	01/20/15 07:14	01/22/15 03:09	1
2,4-Dinitrophenol	<700		700	610	ug/Kg	☼	01/20/15 07:14	01/22/15 03:09	1
2,4-Dinitrotoluene	<180		180	55	ug/Kg	☼	01/20/15 07:14	01/22/15 03:09	1
2,6-Dinitrotoluene	<180		180	69	ug/Kg	☼	01/20/15 07:14	01/22/15 03:09	1
2-Chloronaphthalene	<180		180	39	ug/Kg	☼	01/20/15 07:14	01/22/15 03:09	1
2-Chlorophenol	<180		180	60	ug/Kg	☼	01/20/15 07:14	01/22/15 03:09	1
2-Methylnaphthalene	20	J	35	6.4	ug/Kg	☼	01/20/15 07:14	01/22/15 03:09	1
2-Methylphenol	<180		180	56	ug/Kg	☼	01/20/15 07:14	01/22/15 03:09	1
2-Nitroaniline	<180		180	47	ug/Kg	☼	01/20/15 07:14	01/22/15 03:09	1
2-Nitrophenol	<350		350	83	ug/Kg	☼	01/20/15 07:14	01/22/15 03:09	1
3 & 4 Methylphenol	<180		180	58	ug/Kg	☼	01/20/15 07:14	01/22/15 03:09	1
3,3'-Dichlorobenzidine	<180		180	49	ug/Kg	☼	01/20/15 07:14	01/22/15 03:09	1
3-Nitroaniline	<350		350	110	ug/Kg	☼	01/20/15 07:14	01/22/15 03:09	1
4,6-Dinitro-2-methylphenol	<350		350	280	ug/Kg	☼	01/20/15 07:14	01/22/15 03:09	1
4-Bromophenyl phenyl ether	<180		180	46	ug/Kg	☼	01/20/15 07:14	01/22/15 03:09	1
4-Chloro-3-methylphenol	<350		350	120	ug/Kg	☼	01/20/15 07:14	01/22/15 03:09	1
4-Chloroaniline	<700		700	160	ug/Kg	☼	01/20/15 07:14	01/22/15 03:09	1
4-Chlorophenyl phenyl ether	<180		180	41	ug/Kg	☼	01/20/15 07:14	01/22/15 03:09	1
4-Nitroaniline	<350		350	150	ug/Kg	☼	01/20/15 07:14	01/22/15 03:09	1
4-Nitrophenol	<700		700	330	ug/Kg	☼	01/20/15 07:14	01/22/15 03:09	1
Acenaphthene	<35		35	6.3	ug/Kg	☼	01/20/15 07:14	01/22/15 03:09	1
Acenaphthylene	<35		35	4.6	ug/Kg	☼	01/20/15 07:14	01/22/15 03:09	1
Anthracene	<35		35	5.8	ug/Kg	☼	01/20/15 07:14	01/22/15 03:09	1
Benzo[a]anthracene	<35		35	4.7	ug/Kg	☼	01/20/15 07:14	01/22/15 03:09	1
Benzo[a]pyrene	<35		35	6.8	ug/Kg	☼	01/20/15 07:14	01/22/15 03:09	1
Benzo[b]fluoranthene	12	J	35	7.5	ug/Kg	☼	01/20/15 07:14	01/22/15 03:09	1
Benzo[g,h,i]perylene	<35		35	11	ug/Kg	☼	01/20/15 07:14	01/22/15 03:09	1
Benzo[k]fluoranthene	<35		35	10	ug/Kg	☼	01/20/15 07:14	01/22/15 03:09	1
Bis(2-chloroethoxy)methane	<180		180	36	ug/Kg	☼	01/20/15 07:14	01/22/15 03:09	1
Bis(2-chloroethyl)ether	<180		180	52	ug/Kg	☼	01/20/15 07:14	01/22/15 03:09	1
Bis(2-ethylhexyl) phthalate	<180		180	64	ug/Kg	☼	01/20/15 07:14	01/22/15 03:09	1
Butyl benzyl phthalate	<180		180	66	ug/Kg	☼	01/20/15 07:14	01/22/15 03:09	1
Carbazole	<180		180	90	ug/Kg	☼	01/20/15 07:14	01/22/15 03:09	1
Chrysene	20	J	35	9.5	ug/Kg	☼	01/20/15 07:14	01/22/15 03:09	1
Dibenz(a,h)anthracene	<35		35	6.7	ug/Kg	☼	01/20/15 07:14	01/22/15 03:09	1
Dibenzofuran	<180		180	41	ug/Kg	☼	01/20/15 07:14	01/22/15 03:09	1
Diethyl phthalate	<180		180	59	ug/Kg	☼	01/20/15 07:14	01/22/15 03:09	1
Dimethyl phthalate	<180		180	46	ug/Kg	☼	01/20/15 07:14	01/22/15 03:09	1
Di-n-butyl phthalate	<180		180	53	ug/Kg	☼	01/20/15 07:14	01/22/15 03:09	1
Di-n-octyl phthalate	<180		180	57	ug/Kg	☼	01/20/15 07:14	01/22/15 03:09	1
Fluoranthene	<35		35	6.5	ug/Kg	☼	01/20/15 07:14	01/22/15 03:09	1
Fluorene	<35		35	4.9	ug/Kg	☼	01/20/15 07:14	01/22/15 03:09	1
Hexachlorobenzene	<70		70	8.1	ug/Kg	☼	01/20/15 07:14	01/22/15 03:09	1
Hexachlorobutadiene	<180		180	55	ug/Kg	☼	01/20/15 07:14	01/22/15 03:09	1
Hexachlorocyclopentadiene	<700		700	200	ug/Kg	☼	01/20/15 07:14	01/22/15 03:09	1
Hexachloroethane	<180		180	53	ug/Kg	☼	01/20/15 07:14	01/22/15 03:09	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90936-1

Client Sample ID: ROW-18(0-3)-011515

Lab Sample ID: 500-90936-10

Date Collected: 01/16/15 08:50

Matrix: Solid

Date Received: 01/16/15 16:00

Percent Solids: 90.7

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	<35		35	9.0	ug/Kg	☼	01/20/15 07:14	01/22/15 03:09	1
Isophorone	<180		180	39	ug/Kg	☼	01/20/15 07:14	01/22/15 03:09	1
Naphthalene	<35		35	5.4	ug/Kg	☼	01/20/15 07:14	01/22/15 03:09	1
Nitrobenzene	<35		35	8.7	ug/Kg	☼	01/20/15 07:14	01/22/15 03:09	1
N-Nitrosodi-n-propylamine	<180		180	43	ug/Kg	☼	01/20/15 07:14	01/22/15 03:09	1
N-Nitrosodiphenylamine	<180		180	41	ug/Kg	☼	01/20/15 07:14	01/22/15 03:09	1
Pentachlorophenol	<700		700	560	ug/Kg	☼	01/20/15 07:14	01/22/15 03:09	1
Phenanthrene	28	J	35	4.9	ug/Kg	☼	01/20/15 07:14	01/22/15 03:09	1
Phenol	<180		180	78	ug/Kg	☼	01/20/15 07:14	01/22/15 03:09	1
Pyrene	17	J	35	6.9	ug/Kg	☼	01/20/15 07:14	01/22/15 03:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	48		35 - 137				01/20/15 07:14	01/22/15 03:09	1
2-Fluorobiphenyl	50		25 - 119				01/20/15 07:14	01/22/15 03:09	1
2-Fluorophenol	49		25 - 110				01/20/15 07:14	01/22/15 03:09	1
Nitrobenzene-d5	45		25 - 115				01/20/15 07:14	01/22/15 03:09	1
Phenol-d5	53		31 - 110				01/20/15 07:14	01/22/15 03:09	1
Terphenyl-d14	96		36 - 134				01/20/15 07:14	01/22/15 03:09	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/21/15 08:45	01/22/15 02:07	1
Barium	0.13	J	0.50	0.050	mg/L		01/21/15 08:45	01/22/15 02:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/21/15 08:45	01/22/15 02:07	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/21/15 08:45	01/22/15 02:07	1
Chromium	<0.025		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 02:07	1
Cobalt	<0.025		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 02:07	1
Copper	0.096		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 02:07	1
Iron	<0.20		0.20	0.20	mg/L		01/21/15 08:45	01/22/15 02:07	1
Lead	0.011		0.0075	0.0075	mg/L		01/21/15 08:45	01/22/15 02:07	1
Manganese	1.5		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 02:07	1
Nickel	0.012	J	0.025	0.010	mg/L		01/21/15 08:45	01/22/15 02:07	1
Selenium	<0.050		0.050	0.020	mg/L		01/21/15 08:45	01/22/15 02:07	1
Silver	<0.025		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 02:07	1
Zinc	0.077	J	0.10	0.020	mg/L		01/21/15 08:45	01/22/15 02:07	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		01/21/15 09:30	01/22/15 15:48	1
Barium	<0.50		0.50	0.050	mg/L		01/21/15 09:30	01/22/15 15:48	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/21/15 09:30	01/22/15 15:48	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/21/15 09:30	01/22/15 15:48	1
Chromium	<0.025		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 15:48	1
Cobalt	<0.025		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 15:48	1
Copper	0.012	J	0.025	0.010	mg/L		01/21/15 09:30	01/22/15 15:48	1
Iron	<0.20		0.20	0.20	mg/L		01/21/15 09:30	01/22/15 15:48	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/21/15 09:30	01/22/15 15:48	1
Manganese	0.057		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 15:48	1
Nickel	<0.025		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 15:48	1
Selenium	<0.050		0.050	0.020	mg/L		01/21/15 09:30	01/22/15 15:48	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90936-1

Client Sample ID: ROW-18(0-3)-011515

Lab Sample ID: 500-90936-10

Date Collected: 01/16/15 08:50

Matrix: Solid

Date Received: 01/16/15 16:00

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		01/21/15 09:30	01/22/15 15:48	1
Zinc	0.029	J	0.10	0.020	mg/L		01/21/15 09:30	01/22/15 15:48	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.50	J B	1.1	0.22	mg/Kg	☼	01/19/15 16:20	01/21/15 04:29	1
Arsenic	5.6		0.53	0.24	mg/Kg	☼	01/19/15 16:20	01/21/15 04:29	1
Barium	42		0.53	0.097	mg/Kg	☼	01/19/15 16:20	01/21/15 04:29	1
Beryllium	0.65		0.21	0.046	mg/Kg	☼	01/19/15 16:20	01/21/15 04:29	1
Cadmium	<0.11		0.11	0.031	mg/Kg	☼	01/19/15 16:20	01/21/15 19:25	1
Calcium	75000		110	34	mg/Kg	☼	01/19/15 16:20	01/21/15 19:30	10
Chromium	18		0.53	0.091	mg/Kg	☼	01/19/15 16:20	01/21/15 04:29	1
Cobalt	8.1		0.26	0.060	mg/Kg	☼	01/19/15 16:20	01/21/15 04:29	1
Copper	21		0.53	0.11	mg/Kg	☼	01/19/15 16:20	01/21/15 04:29	1
Iron	16000		11	4.1	mg/Kg	☼	01/19/15 16:20	01/21/15 04:29	1
Lead	8.6		0.26	0.13	mg/Kg	☼	01/19/15 16:20	01/21/15 04:29	1
Magnesium	31000		5.3	2.2	mg/Kg	☼	01/19/15 16:20	01/21/15 04:29	1
Manganese	380		0.53	0.10	mg/Kg	☼	01/19/15 16:20	01/21/15 04:29	1
Nickel	22		0.53	0.14	mg/Kg	☼	01/19/15 16:20	01/21/15 04:29	1
Potassium	3900		26	4.3	mg/Kg	☼	01/19/15 16:20	01/21/15 04:29	1
Selenium	<0.53		0.53	0.26	mg/Kg	☼	01/19/15 16:20	01/21/15 04:29	1
Silver	<0.26		0.26	0.062	mg/Kg	☼	01/19/15 16:20	01/21/15 04:29	1
Sodium	800		53	7.0	mg/Kg	☼	01/19/15 16:20	01/21/15 04:29	1
Thallium	0.55		0.53	0.26	mg/Kg	☼	01/19/15 16:20	01/21/15 04:29	1
Vanadium	20		0.26	0.077	mg/Kg	☼	01/19/15 16:20	01/21/15 04:29	1
Zinc	35	B	1.1	0.34	mg/Kg	☼	01/19/15 16:20	01/21/15 04:29	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		01/21/15 11:30	01/22/15 09:38	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		01/21/15 11:30	01/22/15 10:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	13	J	17	5.9	ug/Kg	☼	01/19/15 14:30	01/20/15 09:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.11		0.200	0.200	SU			01/21/15 11:59	1

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90936-1

Client Sample ID: ROW-19(0-3)-011515

Lab Sample ID: 500-90936-11

Date Collected: 01/16/15 09:05

Matrix: Solid

Date Received: 01/16/15 16:00

Percent Solids: 86.9

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	12		5.8	2.5	ug/Kg	☼		01/21/15 17:22	1
Benzene	<5.8		5.8	0.79	ug/Kg	☼		01/21/15 17:22	1
Bromodichloromethane	<5.8		5.8	0.99	ug/Kg	☼		01/21/15 17:22	1
Bromoform	<5.8		5.8	1.3	ug/Kg	☼		01/21/15 17:22	1
Bromomethane	<5.8		5.8	1.7	ug/Kg	☼		01/21/15 17:22	1
Carbon disulfide	<5.8		5.8	0.86	ug/Kg	☼		01/21/15 17:22	1
Carbon tetrachloride	<5.8		5.8	1.0	ug/Kg	☼		01/21/15 17:22	1
Chlorobenzene	<5.8		5.8	0.58	ug/Kg	☼		01/21/15 17:22	1
Chloroethane	<5.8		5.8	1.6	ug/Kg	☼		01/21/15 17:22	1
Chloroform	<5.8		5.8	0.66	ug/Kg	☼		01/21/15 17:22	1
Chloromethane	<5.8		5.8	1.2	ug/Kg	☼		01/21/15 17:22	1
cis-1,2-Dichloroethene	<5.8		5.8	0.81	ug/Kg	☼		01/21/15 17:22	1
cis-1,3-Dichloropropene	<5.8		5.8	0.75	ug/Kg	☼		01/21/15 17:22	1
Dibromochloromethane	<5.8		5.8	1.0	ug/Kg	☼		01/21/15 17:22	1
1,1-Dichloroethane	<5.8		5.8	0.91	ug/Kg	☼		01/21/15 17:22	1
1,2-Dichloroethane	<5.8		5.8	0.85	ug/Kg	☼		01/21/15 17:22	1
1,1-Dichloroethene	<5.8		5.8	0.93	ug/Kg	☼		01/21/15 17:22	1
1,2-Dichloropropane	<5.8		5.8	0.87	ug/Kg	☼		01/21/15 17:22	1
1,3-Dichloropropene, Total	<5.8		5.8	0.75	ug/Kg	☼		01/21/15 17:22	1
Ethylbenzene	<5.8		5.8	1.2	ug/Kg	☼		01/21/15 17:22	1
2-Hexanone	<5.8		5.8	1.7	ug/Kg	☼		01/21/15 17:22	1
Methylene Chloride	<5.8		5.8	1.6	ug/Kg	☼		01/21/15 17:22	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		01/21/15 17:22	1
methyl isobutyl ketone	<5.8		5.8	1.5	ug/Kg	☼		01/21/15 17:22	1
Methyl tert-butyl ether	<5.8		5.8	0.95	ug/Kg	☼		01/21/15 17:22	1
Styrene	<5.8		5.8	0.75	ug/Kg	☼		01/21/15 17:22	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	1.2	ug/Kg	☼		01/21/15 17:22	1
Tetrachloroethene	<5.8		5.8	0.88	ug/Kg	☼		01/21/15 17:22	1
Toluene	<5.8		5.8	0.81	ug/Kg	☼		01/21/15 17:22	1
trans-1,2-Dichloroethene	<5.8		5.8	0.79	ug/Kg	☼		01/21/15 17:22	1
trans-1,3-Dichloropropene	<5.8		5.8	1.0	ug/Kg	☼		01/21/15 17:22	1
1,1,1-Trichloroethane	<5.8		5.8	0.86	ug/Kg	☼		01/21/15 17:22	1
1,1,2-Trichloroethane	<5.8		5.8	0.78	ug/Kg	☼		01/21/15 17:22	1
Trichloroethene	<5.8		5.8	0.95	ug/Kg	☼		01/21/15 17:22	1
Vinyl chloride	<5.8		5.8	1.2	ug/Kg	☼		01/21/15 17:22	1
Xylenes, Total	<12		12	0.52	ug/Kg	☼		01/21/15 17:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122		01/21/15 17:22	1
Dibromofluoromethane	111		75 - 120		01/21/15 17:22	1
1,2-Dichloroethane-d4 (Surr)	121		70 - 134		01/21/15 17:22	1
Toluene-d8 (Surr)	93		75 - 122		01/21/15 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	<180		180	39	ug/Kg	☼	01/20/15 07:14	01/22/15 03:32	1
1,2-Dichlorobenzene	<180		180	44	ug/Kg	☼	01/20/15 07:14	01/22/15 03:32	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	01/20/15 07:14	01/22/15 03:32	1
1,4-Dichlorobenzene	<180		180	47	ug/Kg	☼	01/20/15 07:14	01/22/15 03:32	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	01/20/15 07:14	01/22/15 03:32	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90936-1

Client Sample ID: ROW-19(0-3)-011515

Lab Sample ID: 500-90936-11

Date Collected: 01/16/15 09:05

Matrix: Solid

Date Received: 01/16/15 16:00

Percent Solids: 86.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<360		360	83	ug/Kg	☼	01/20/15 07:14	01/22/15 03:32	1
2,4,6-Trichlorophenol	<360		360	130	ug/Kg	☼	01/20/15 07:14	01/22/15 03:32	1
2,4-Dichlorophenol	<360		360	87	ug/Kg	☼	01/20/15 07:14	01/22/15 03:32	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	01/20/15 07:14	01/22/15 03:32	1
2,4-Dinitrophenol	<740		740	640	ug/Kg	☼	01/20/15 07:14	01/22/15 03:32	1
2,4-Dinitrotoluene	<180		180	58	ug/Kg	☼	01/20/15 07:14	01/22/15 03:32	1
2,6-Dinitrotoluene	<180		180	72	ug/Kg	☼	01/20/15 07:14	01/22/15 03:32	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	01/20/15 07:14	01/22/15 03:32	1
2-Chlorophenol	<180		180	62	ug/Kg	☼	01/20/15 07:14	01/22/15 03:32	1
2-Methylnaphthalene	<36		36	6.7	ug/Kg	☼	01/20/15 07:14	01/22/15 03:32	1
2-Methylphenol	<180		180	59	ug/Kg	☼	01/20/15 07:14	01/22/15 03:32	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	01/20/15 07:14	01/22/15 03:32	1
2-Nitrophenol	<360		360	86	ug/Kg	☼	01/20/15 07:14	01/22/15 03:32	1
3 & 4 Methylphenol	<180		180	61	ug/Kg	☼	01/20/15 07:14	01/22/15 03:32	1
3,3'-Dichlorobenzidine	<180		180	51	ug/Kg	☼	01/20/15 07:14	01/22/15 03:32	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	01/20/15 07:14	01/22/15 03:32	1
4,6-Dinitro-2-methylphenol	<360		360	290	ug/Kg	☼	01/20/15 07:14	01/22/15 03:32	1
4-Bromophenyl phenyl ether	<180		180	48	ug/Kg	☼	01/20/15 07:14	01/22/15 03:32	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	01/20/15 07:14	01/22/15 03:32	1
4-Chloroaniline	<740		740	170	ug/Kg	☼	01/20/15 07:14	01/22/15 03:32	1
4-Chlorophenyl phenyl ether	<180		180	43	ug/Kg	☼	01/20/15 07:14	01/22/15 03:32	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	01/20/15 07:14	01/22/15 03:32	1
4-Nitrophenol	<740		740	350	ug/Kg	☼	01/20/15 07:14	01/22/15 03:32	1
Acenaphthene	<36		36	6.6	ug/Kg	☼	01/20/15 07:14	01/22/15 03:32	1
Acenaphthylene	<36		36	4.8	ug/Kg	☼	01/20/15 07:14	01/22/15 03:32	1
Anthracene	<36		36	6.1	ug/Kg	☼	01/20/15 07:14	01/22/15 03:32	1
Benzo[a]anthracene	<36		36	4.9	ug/Kg	☼	01/20/15 07:14	01/22/15 03:32	1
Benzo[a]pyrene	<36		36	7.1	ug/Kg	☼	01/20/15 07:14	01/22/15 03:32	1
Benzo[b]fluoranthene	<36		36	7.9	ug/Kg	☼	01/20/15 07:14	01/22/15 03:32	1
Benzo[g,h,i]perylene	<36		36	12	ug/Kg	☼	01/20/15 07:14	01/22/15 03:32	1
Benzo[k]fluoranthene	<36		36	11	ug/Kg	☼	01/20/15 07:14	01/22/15 03:32	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	01/20/15 07:14	01/22/15 03:32	1
Bis(2-chloroethyl)ether	<180		180	55	ug/Kg	☼	01/20/15 07:14	01/22/15 03:32	1
Bis(2-ethylhexyl) phthalate	<180		180	67	ug/Kg	☼	01/20/15 07:14	01/22/15 03:32	1
Butyl benzyl phthalate	<180		180	69	ug/Kg	☼	01/20/15 07:14	01/22/15 03:32	1
Carbazole	<180		180	94	ug/Kg	☼	01/20/15 07:14	01/22/15 03:32	1
Chrysene	15 J		36	10	ug/Kg	☼	01/20/15 07:14	01/22/15 03:32	1
Dibenz(a,h)anthracene	<36		36	7.1	ug/Kg	☼	01/20/15 07:14	01/22/15 03:32	1
Dibenzofuran	<180		180	43	ug/Kg	☼	01/20/15 07:14	01/22/15 03:32	1
Diethyl phthalate	<180		180	62	ug/Kg	☼	01/20/15 07:14	01/22/15 03:32	1
Dimethyl phthalate	<180		180	48	ug/Kg	☼	01/20/15 07:14	01/22/15 03:32	1
Di-n-butyl phthalate	<180		180	56	ug/Kg	☼	01/20/15 07:14	01/22/15 03:32	1
Di-n-octyl phthalate	<180		180	60	ug/Kg	☼	01/20/15 07:14	01/22/15 03:32	1
Fluoranthene	<36		36	6.8	ug/Kg	☼	01/20/15 07:14	01/22/15 03:32	1
Fluorene	<36		36	5.1	ug/Kg	☼	01/20/15 07:14	01/22/15 03:32	1
Hexachlorobenzene	<74		74	8.5	ug/Kg	☼	01/20/15 07:14	01/22/15 03:32	1
Hexachlorobutadiene	<180		180	57	ug/Kg	☼	01/20/15 07:14	01/22/15 03:32	1
Hexachlorocyclopentadiene	<740		740	210	ug/Kg	☼	01/20/15 07:14	01/22/15 03:32	1
Hexachloroethane	<180		180	55	ug/Kg	☼	01/20/15 07:14	01/22/15 03:32	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90936-1

Client Sample ID: ROW-19(0-3)-011515

Lab Sample ID: 500-90936-11

Date Collected: 01/16/15 09:05

Matrix: Solid

Date Received: 01/16/15 16:00

Percent Solids: 86.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<36		36	9.5	ug/Kg	☼	01/20/15 07:14	01/22/15 03:32	1
Isophorone	<180		180	41	ug/Kg	☼	01/20/15 07:14	01/22/15 03:32	1
Naphthalene	<36		36	5.6	ug/Kg	☼	01/20/15 07:14	01/22/15 03:32	1
Nitrobenzene	<36		36	9.1	ug/Kg	☼	01/20/15 07:14	01/22/15 03:32	1
N-Nitrosodi-n-propylamine	<180		180	45	ug/Kg	☼	01/20/15 07:14	01/22/15 03:32	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	01/20/15 07:14	01/22/15 03:32	1
Pentachlorophenol	<740		740	590	ug/Kg	☼	01/20/15 07:14	01/22/15 03:32	1
Phenanthrene	25	J	36	5.1	ug/Kg	☼	01/20/15 07:14	01/22/15 03:32	1
Phenol	<180		180	81	ug/Kg	☼	01/20/15 07:14	01/22/15 03:32	1
Pyrene	15	J	36	7.3	ug/Kg	☼	01/20/15 07:14	01/22/15 03:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	52		35 - 137				01/20/15 07:14	01/22/15 03:32	1
2-Fluorobiphenyl	53		25 - 119				01/20/15 07:14	01/22/15 03:32	1
2-Fluorophenol	51		25 - 110				01/20/15 07:14	01/22/15 03:32	1
Nitrobenzene-d5	44		25 - 115				01/20/15 07:14	01/22/15 03:32	1
Phenol-d5	52		31 - 110				01/20/15 07:14	01/22/15 03:32	1
Terphenyl-d14	95		36 - 134				01/20/15 07:14	01/22/15 03:32	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/21/15 08:45	01/22/15 02:13	1
Barium	0.21	J	0.50	0.050	mg/L		01/21/15 08:45	01/22/15 02:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/21/15 08:45	01/22/15 02:13	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/21/15 08:45	01/22/15 02:13	1
Chromium	<0.025		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 02:13	1
Cobalt	<0.025		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 02:13	1
Copper	0.018	J	0.025	0.010	mg/L		01/21/15 08:45	01/22/15 02:13	1
Iron	<0.20		0.20	0.20	mg/L		01/21/15 08:45	01/22/15 02:13	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/21/15 08:45	01/22/15 02:13	1
Manganese	1.3		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 02:13	1
Nickel	0.024	J	0.025	0.010	mg/L		01/21/15 08:45	01/22/15 02:13	1
Selenium	<0.050		0.050	0.020	mg/L		01/21/15 08:45	01/22/15 02:13	1
Silver	<0.025		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 02:13	1
Zinc	0.030	J	0.10	0.020	mg/L		01/21/15 08:45	01/22/15 02:13	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		01/21/15 09:30	01/22/15 15:55	1
Barium	0.063	J	0.50	0.050	mg/L		01/21/15 09:30	01/22/15 15:55	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/21/15 09:30	01/22/15 15:55	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/21/15 09:30	01/22/15 15:55	1
Chromium	<0.025		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 15:55	1
Cobalt	<0.025		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 15:55	1
Copper	0.039		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 15:55	1
Iron	0.98		0.20	0.20	mg/L		01/21/15 09:30	01/22/15 15:55	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/21/15 09:30	01/22/15 15:55	1
Manganese	0.089		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 15:55	1
Nickel	<0.025		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 15:55	1
Selenium	<0.050		0.050	0.020	mg/L		01/21/15 09:30	01/22/15 15:55	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90936-1

Client Sample ID: ROW-19(0-3)-011515

Lab Sample ID: 500-90936-11

Date Collected: 01/16/15 09:05

Matrix: Solid

Date Received: 01/16/15 16:00

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		01/21/15 09:30	01/22/15 15:55	1
Zinc	0.055	J	0.10	0.020	mg/L		01/21/15 09:30	01/22/15 15:55	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.46	J B	1.0	0.22	mg/Kg	☼	01/19/15 16:20	01/21/15 04:35	1
Arsenic	5.5		0.52	0.24	mg/Kg	☼	01/19/15 16:20	01/21/15 04:35	1
Barium	45		0.52	0.096	mg/Kg	☼	01/19/15 16:20	01/21/15 04:35	1
Beryllium	0.62		0.21	0.045	mg/Kg	☼	01/19/15 16:20	01/21/15 04:35	1
Cadmium	<0.10		0.10	0.030	mg/Kg	☼	01/19/15 16:20	01/21/15 19:34	1
Calcium	78000		100	34	mg/Kg	☼	01/19/15 16:20	01/21/15 19:39	10
Chromium	18		0.52	0.090	mg/Kg	☼	01/19/15 16:20	01/21/15 04:35	1
Cobalt	9.0		0.26	0.059	mg/Kg	☼	01/19/15 16:20	01/21/15 04:35	1
Copper	20		0.52	0.11	mg/Kg	☼	01/19/15 16:20	01/21/15 04:35	1
Iron	17000		10	4.0	mg/Kg	☼	01/19/15 16:20	01/21/15 04:35	1
Lead	8.8		0.26	0.13	mg/Kg	☼	01/19/15 16:20	01/21/15 04:35	1
Magnesium	30000		5.2	2.1	mg/Kg	☼	01/19/15 16:20	01/21/15 04:35	1
Manganese	410		0.52	0.10	mg/Kg	☼	01/19/15 16:20	01/21/15 04:35	1
Nickel	24		0.52	0.14	mg/Kg	☼	01/19/15 16:20	01/21/15 04:35	1
Potassium	3700		26	4.3	mg/Kg	☼	01/19/15 16:20	01/21/15 04:35	1
Selenium	<0.52		0.52	0.26	mg/Kg	☼	01/19/15 16:20	01/21/15 04:35	1
Silver	<0.26		0.26	0.061	mg/Kg	☼	01/19/15 16:20	01/21/15 04:35	1
Sodium	1000		52	6.9	mg/Kg	☼	01/19/15 16:20	01/21/15 04:35	1
Thallium	0.76		0.52	0.26	mg/Kg	☼	01/19/15 16:20	01/21/15 04:35	1
Vanadium	20		0.26	0.077	mg/Kg	☼	01/19/15 16:20	01/21/15 04:35	1
Zinc	38	B	1.0	0.33	mg/Kg	☼	01/19/15 16:20	01/21/15 04:35	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		01/21/15 11:30	01/22/15 09:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		01/21/15 11:30	01/22/15 10:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	14	J	18	6.3	ug/Kg	☼	01/19/15 14:30	01/20/15 10:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.34		0.200	0.200	SU			01/21/15 12:16	1

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90936-1

Client Sample ID: ROW-20(0-3)-011515

Lab Sample ID: 500-90936-13

Date Collected: 01/16/15 09:50

Matrix: Solid

Date Received: 01/16/15 16:00

Percent Solids: 85.2

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	12		5.9	2.5	ug/Kg	☼		01/21/15 18:10	1
Benzene	<5.9		5.9	0.80	ug/Kg	☼		01/21/15 18:10	1
Bromodichloromethane	<5.9		5.9	1.0	ug/Kg	☼		01/21/15 18:10	1
Bromoform	<5.9		5.9	1.3	ug/Kg	☼		01/21/15 18:10	1
Bromomethane	<5.9		5.9	1.8	ug/Kg	☼		01/21/15 18:10	1
Carbon disulfide	<5.9		5.9	0.88	ug/Kg	☼		01/21/15 18:10	1
Carbon tetrachloride	<5.9		5.9	1.1	ug/Kg	☼		01/21/15 18:10	1
Chlorobenzene	<5.9		5.9	0.59	ug/Kg	☼		01/21/15 18:10	1
Chloroethane	<5.9		5.9	1.6	ug/Kg	☼		01/21/15 18:10	1
Chloroform	<5.9		5.9	0.67	ug/Kg	☼		01/21/15 18:10	1
Chloromethane	<5.9		5.9	1.2	ug/Kg	☼		01/21/15 18:10	1
cis-1,2-Dichloroethene	<5.9		5.9	0.83	ug/Kg	☼		01/21/15 18:10	1
cis-1,3-Dichloropropene	<5.9		5.9	0.77	ug/Kg	☼		01/21/15 18:10	1
Dibromochloromethane	<5.9		5.9	1.0	ug/Kg	☼		01/21/15 18:10	1
1,1-Dichloroethane	<5.9		5.9	0.93	ug/Kg	☼		01/21/15 18:10	1
1,2-Dichloroethane	<5.9		5.9	0.87	ug/Kg	☼		01/21/15 18:10	1
1,1-Dichloroethene	<5.9		5.9	0.95	ug/Kg	☼		01/21/15 18:10	1
1,2-Dichloropropane	<5.9		5.9	0.89	ug/Kg	☼		01/21/15 18:10	1
1,3-Dichloropropene, Total	<5.9		5.9	0.77	ug/Kg	☼		01/21/15 18:10	1
Ethylbenzene	<5.9		5.9	1.2	ug/Kg	☼		01/21/15 18:10	1
2-Hexanone	<5.9		5.9	1.7	ug/Kg	☼		01/21/15 18:10	1
Methylene Chloride	<5.9		5.9	1.6	ug/Kg	☼		01/21/15 18:10	1
Methyl Ethyl Ketone	<5.9		5.9	2.1	ug/Kg	☼		01/21/15 18:10	1
methyl isobutyl ketone	<5.9		5.9	1.5	ug/Kg	☼		01/21/15 18:10	1
Methyl tert-butyl ether	<5.9		5.9	0.97	ug/Kg	☼		01/21/15 18:10	1
Styrene	<5.9		5.9	0.77	ug/Kg	☼		01/21/15 18:10	1
1,1,2,2-Tetrachloroethane	<5.9		5.9	1.2	ug/Kg	☼		01/21/15 18:10	1
Tetrachloroethene	<5.9		5.9	0.90	ug/Kg	☼		01/21/15 18:10	1
Toluene	<5.9		5.9	0.82	ug/Kg	☼		01/21/15 18:10	1
trans-1,2-Dichloroethene	<5.9		5.9	0.81	ug/Kg	☼		01/21/15 18:10	1
trans-1,3-Dichloropropene	<5.9		5.9	1.1	ug/Kg	☼		01/21/15 18:10	1
1,1,1-Trichloroethane	<5.9		5.9	0.88	ug/Kg	☼		01/21/15 18:10	1
1,1,2-Trichloroethane	<5.9		5.9	0.80	ug/Kg	☼		01/21/15 18:10	1
Trichloroethene	<5.9		5.9	0.97	ug/Kg	☼		01/21/15 18:10	1
Vinyl chloride	<5.9		5.9	1.2	ug/Kg	☼		01/21/15 18:10	1
Xylenes, Total	<12		12	0.53	ug/Kg	☼		01/21/15 18:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122		01/21/15 18:10	1
Dibromofluoromethane	105		75 - 120		01/21/15 18:10	1
1,2-Dichloroethane-d4 (Surr)	117		70 - 134		01/21/15 18:10	1
Toluene-d8 (Surr)	93		75 - 122		01/21/15 18:10	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	☼	01/20/15 07:14	01/22/15 04:18	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	01/20/15 07:14	01/22/15 04:18	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	01/20/15 07:14	01/22/15 04:18	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	01/20/15 07:14	01/22/15 04:18	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	01/20/15 07:14	01/22/15 04:18	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90936-1

Client Sample ID: ROW-20(0-3)-011515

Lab Sample ID: 500-90936-13

Date Collected: 01/16/15 09:50

Matrix: Solid

Date Received: 01/16/15 16:00

Percent Solids: 85.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<380		380	86	ug/Kg	☼	01/20/15 07:14	01/22/15 04:18	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	01/20/15 07:14	01/22/15 04:18	1
2,4-Dichlorophenol	<380		380	90	ug/Kg	☼	01/20/15 07:14	01/22/15 04:18	1
2,4-Dimethylphenol	<380		380	140	ug/Kg	☼	01/20/15 07:14	01/22/15 04:18	1
2,4-Dinitrophenol	<760		760	660	ug/Kg	☼	01/20/15 07:14	01/22/15 04:18	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	01/20/15 07:14	01/22/15 04:18	1
2,6-Dinitrotoluene	<190		190	74	ug/Kg	☼	01/20/15 07:14	01/22/15 04:18	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	01/20/15 07:14	01/22/15 04:18	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	01/20/15 07:14	01/22/15 04:18	1
2-Methylnaphthalene	<38		38	6.9	ug/Kg	☼	01/20/15 07:14	01/22/15 04:18	1
2-Methylphenol	<190		190	61	ug/Kg	☼	01/20/15 07:14	01/22/15 04:18	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	01/20/15 07:14	01/22/15 04:18	1
2-Nitrophenol	<380		380	89	ug/Kg	☼	01/20/15 07:14	01/22/15 04:18	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	01/20/15 07:14	01/22/15 04:18	1
3,3'-Dichlorobenzidine	<190		190	53	ug/Kg	☼	01/20/15 07:14	01/22/15 04:18	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	01/20/15 07:14	01/22/15 04:18	1
4,6-Dinitro-2-methylphenol	<380		380	300	ug/Kg	☼	01/20/15 07:14	01/22/15 04:18	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	01/20/15 07:14	01/22/15 04:18	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	01/20/15 07:14	01/22/15 04:18	1
4-Chloroaniline	<760		760	180	ug/Kg	☼	01/20/15 07:14	01/22/15 04:18	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	01/20/15 07:14	01/22/15 04:18	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	01/20/15 07:14	01/22/15 04:18	1
4-Nitrophenol	<760		760	360	ug/Kg	☼	01/20/15 07:14	01/22/15 04:18	1
Acenaphthene	<38		38	6.8	ug/Kg	☼	01/20/15 07:14	01/22/15 04:18	1
Acenaphthylene	<38		38	5.0	ug/Kg	☼	01/20/15 07:14	01/22/15 04:18	1
Anthracene	<38		38	6.3	ug/Kg	☼	01/20/15 07:14	01/22/15 04:18	1
Benzo[a]anthracene	<38		38	5.1	ug/Kg	☼	01/20/15 07:14	01/22/15 04:18	1
Benzo[a]pyrene	<38		38	7.3	ug/Kg	☼	01/20/15 07:14	01/22/15 04:18	1
Benzo[b]fluoranthene	<38		38	8.1	ug/Kg	☼	01/20/15 07:14	01/22/15 04:18	1
Benzo[g,h,i]perylene	<38		38	12	ug/Kg	☼	01/20/15 07:14	01/22/15 04:18	1
Benzo[k]fluoranthene	<38		38	11	ug/Kg	☼	01/20/15 07:14	01/22/15 04:18	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	01/20/15 07:14	01/22/15 04:18	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	01/20/15 07:14	01/22/15 04:18	1
Bis(2-ethylhexyl) phthalate	<190		190	69	ug/Kg	☼	01/20/15 07:14	01/22/15 04:18	1
Butyl benzyl phthalate	<190		190	72	ug/Kg	☼	01/20/15 07:14	01/22/15 04:18	1
Carbazole	<190		190	98	ug/Kg	☼	01/20/15 07:14	01/22/15 04:18	1
Chrysene	10 J		38	10	ug/Kg	☼	01/20/15 07:14	01/22/15 04:18	1
Dibenz(a,h)anthracene	<38		38	7.3	ug/Kg	☼	01/20/15 07:14	01/22/15 04:18	1
Dibenzofuran	<190		190	44	ug/Kg	☼	01/20/15 07:14	01/22/15 04:18	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	01/20/15 07:14	01/22/15 04:18	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	01/20/15 07:14	01/22/15 04:18	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	01/20/15 07:14	01/22/15 04:18	1
Di-n-octyl phthalate	71 J		190	62	ug/Kg	☼	01/20/15 07:14	01/22/15 04:18	1
Fluoranthene	<38		38	7.0	ug/Kg	☼	01/20/15 07:14	01/22/15 04:18	1
Fluorene	<38		38	5.3	ug/Kg	☼	01/20/15 07:14	01/22/15 04:18	1
Hexachlorobenzene	<76		76	8.8	ug/Kg	☼	01/20/15 07:14	01/22/15 04:18	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	01/20/15 07:14	01/22/15 04:18	1
Hexachlorocyclopentadiene	<760		760	220	ug/Kg	☼	01/20/15 07:14	01/22/15 04:18	1
Hexachloroethane	<190		190	57	ug/Kg	☼	01/20/15 07:14	01/22/15 04:18	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90936-1

Client Sample ID: ROW-20(0-3)-011515

Lab Sample ID: 500-90936-13

Date Collected: 01/16/15 09:50

Matrix: Solid

Date Received: 01/16/15 16:00

Percent Solids: 85.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<38		38	9.8	ug/Kg	☼	01/20/15 07:14	01/22/15 04:18	1
Isophorone	<190		190	42	ug/Kg	☼	01/20/15 07:14	01/22/15 04:18	1
Naphthalene	<38		38	5.8	ug/Kg	☼	01/20/15 07:14	01/22/15 04:18	1
Nitrobenzene	<38		38	9.4	ug/Kg	☼	01/20/15 07:14	01/22/15 04:18	1
N-Nitrosodi-n-propylamine	<190		190	46	ug/Kg	☼	01/20/15 07:14	01/22/15 04:18	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	01/20/15 07:14	01/22/15 04:18	1
Pentachlorophenol	<760		760	610	ug/Kg	☼	01/20/15 07:14	01/22/15 04:18	1
Phenanthrene	10	J	38	5.3	ug/Kg	☼	01/20/15 07:14	01/22/15 04:18	1
Phenol	<190		190	84	ug/Kg	☼	01/20/15 07:14	01/22/15 04:18	1
Pyrene	9.7	J	38	7.5	ug/Kg	☼	01/20/15 07:14	01/22/15 04:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	51		35 - 137				01/20/15 07:14	01/22/15 04:18	1
2-Fluorobiphenyl	48		25 - 119				01/20/15 07:14	01/22/15 04:18	1
2-Fluorophenol	48		25 - 110				01/20/15 07:14	01/22/15 04:18	1
Nitrobenzene-d5	42		25 - 115				01/20/15 07:14	01/22/15 04:18	1
Phenol-d5	50		31 - 110				01/20/15 07:14	01/22/15 04:18	1
Terphenyl-d14	104		36 - 134				01/20/15 07:14	01/22/15 04:18	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		01/21/15 08:45	01/22/15 02:26	1
Barium	0.42	J	0.50	0.050	mg/L		01/21/15 08:45	01/22/15 02:26	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/21/15 08:45	01/22/15 02:26	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/21/15 08:45	01/22/15 02:26	1
Chromium	<0.025		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 02:26	1
Cobalt	<0.025		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 02:26	1
Copper	0.022	J	0.025	0.010	mg/L		01/21/15 08:45	01/22/15 02:26	1
Iron	<0.20		0.20	0.20	mg/L		01/21/15 08:45	01/22/15 02:26	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/21/15 08:45	01/22/15 02:26	1
Manganese	0.92		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 02:26	1
Nickel	<0.025		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 02:26	1
Selenium	<0.050		0.050	0.020	mg/L		01/21/15 08:45	01/22/15 02:26	1
Silver	<0.025		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 02:26	1
Zinc	0.15		0.10	0.020	mg/L		01/21/15 08:45	01/22/15 02:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.060		0.050	0.010	mg/L		01/21/15 09:30	01/22/15 16:22	1
Barium	0.52		0.50	0.050	mg/L		01/21/15 09:30	01/22/15 16:22	1
Beryllium	0.0071		0.0040	0.0040	mg/L		01/21/15 09:30	01/22/15 16:22	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/21/15 09:30	01/22/15 16:22	1
Chromium	0.17		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 16:22	1
Cobalt	0.048		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 16:22	1
Copper	0.24		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 16:22	1
Iron	150		0.20	0.20	mg/L		01/21/15 09:30	01/22/15 16:22	1
Lead	0.11		0.0075	0.0075	mg/L		01/21/15 09:30	01/22/15 16:22	1
Manganese	0.93		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 16:22	1
Nickel	0.18		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 16:22	1
Selenium	<0.050		0.050	0.020	mg/L		01/21/15 09:30	01/22/15 16:22	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90936-1

Client Sample ID: ROW-20(0-3)-011515

Lab Sample ID: 500-90936-13

Date Collected: 01/16/15 09:50

Matrix: Solid

Date Received: 01/16/15 16:00

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		01/21/15 09:30	01/22/15 16:22	1
Zinc	0.47		0.10	0.020	mg/L		01/21/15 09:30	01/22/15 16:22	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.36	J B	1.1	0.22	mg/Kg	☼	01/19/15 16:20	01/21/15 04:48	1
Arsenic	5.5		0.54	0.25	mg/Kg	☼	01/19/15 16:20	01/21/15 04:48	1
Barium	39		0.54	0.098	mg/Kg	☼	01/19/15 16:20	01/21/15 04:48	1
Beryllium	0.59		0.21	0.046	mg/Kg	☼	01/19/15 16:20	01/21/15 04:48	1
Cadmium	0.038	J	0.11	0.031	mg/Kg	☼	01/19/15 16:20	01/21/15 19:52	1
Calcium	76000		110	35	mg/Kg	☼	01/19/15 16:20	01/21/15 19:57	10
Chromium	17		0.54	0.092	mg/Kg	☼	01/19/15 16:20	01/21/15 04:48	1
Cobalt	5.9		0.27	0.061	mg/Kg	☼	01/19/15 16:20	01/21/15 04:48	1
Copper	20		0.54	0.12	mg/Kg	☼	01/19/15 16:20	01/21/15 04:48	1
Iron	16000		11	4.1	mg/Kg	☼	01/19/15 16:20	01/21/15 04:48	1
Lead	9.1		0.27	0.13	mg/Kg	☼	01/19/15 16:20	01/21/15 04:48	1
Magnesium	31000		5.4	2.2	mg/Kg	☼	01/19/15 16:20	01/21/15 04:48	1
Manganese	360		0.54	0.11	mg/Kg	☼	01/19/15 16:20	01/21/15 04:48	1
Nickel	21		0.54	0.15	mg/Kg	☼	01/19/15 16:20	01/21/15 04:48	1
Potassium	3500		27	4.4	mg/Kg	☼	01/19/15 16:20	01/21/15 04:48	1
Selenium	<0.54		0.54	0.27	mg/Kg	☼	01/19/15 16:20	01/21/15 04:48	1
Silver	<0.27		0.27	0.063	mg/Kg	☼	01/19/15 16:20	01/21/15 04:48	1
Sodium	1900		54	7.1	mg/Kg	☼	01/19/15 16:20	01/21/15 04:48	1
Thallium	0.37	J	0.54	0.26	mg/Kg	☼	01/19/15 16:20	01/21/15 04:48	1
Vanadium	20		0.27	0.078	mg/Kg	☼	01/19/15 16:20	01/21/15 04:48	1
Zinc	38	B	1.1	0.34	mg/Kg	☼	01/19/15 16:20	01/21/15 04:48	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		01/21/15 11:30	01/22/15 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		01/21/15 11:30	01/22/15 10:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	12	J	19	6.5	ug/Kg	☼	01/19/15 14:30	01/20/15 10:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.51		0.200	0.200	SU			01/21/15 12:33	1

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90936-1

Client Sample ID: ROW-17(0-3)-011515

Lab Sample ID: 500-90936-14

Date Collected: 01/16/15 11:00

Matrix: Solid

Date Received: 01/16/15 16:00

Percent Solids: 86.6

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.8		5.8	2.5	ug/Kg	*		01/21/15 18:34	1
Benzene	<5.8		5.8	0.79	ug/Kg	*		01/21/15 18:34	1
Bromodichloromethane	<5.8		5.8	0.99	ug/Kg	*		01/21/15 18:34	1
Bromoform	<5.8		5.8	1.3	ug/Kg	*		01/21/15 18:34	1
Bromomethane	<5.8		5.8	1.7	ug/Kg	*		01/21/15 18:34	1
Carbon disulfide	<5.8		5.8	0.86	ug/Kg	*		01/21/15 18:34	1
Carbon tetrachloride	<5.8		5.8	1.1	ug/Kg	*		01/21/15 18:34	1
Chlorobenzene	<5.8		5.8	0.59	ug/Kg	*		01/21/15 18:34	1
Chloroethane	<5.8		5.8	1.6	ug/Kg	*		01/21/15 18:34	1
Chloroform	<5.8		5.8	0.66	ug/Kg	*		01/21/15 18:34	1
Chloromethane	<5.8		5.8	1.2	ug/Kg	*		01/21/15 18:34	1
cis-1,2-Dichloroethene	<5.8		5.8	0.82	ug/Kg	*		01/21/15 18:34	1
cis-1,3-Dichloropropene	<5.8		5.8	0.76	ug/Kg	*		01/21/15 18:34	1
Dibromochloromethane	<5.8		5.8	1.0	ug/Kg	*		01/21/15 18:34	1
1,1-Dichloroethane	<5.8		5.8	0.91	ug/Kg	*		01/21/15 18:34	1
1,2-Dichloroethane	<5.8		5.8	0.86	ug/Kg	*		01/21/15 18:34	1
1,1-Dichloroethene	<5.8		5.8	0.93	ug/Kg	*		01/21/15 18:34	1
1,2-Dichloropropane	<5.8		5.8	0.88	ug/Kg	*		01/21/15 18:34	1
1,3-Dichloropropene, Total	<5.8		5.8	0.76	ug/Kg	*		01/21/15 18:34	1
Ethylbenzene	<5.8		5.8	1.2	ug/Kg	*		01/21/15 18:34	1
2-Hexanone	<5.8		5.8	1.7	ug/Kg	*		01/21/15 18:34	1
Methylene Chloride	<5.8		5.8	1.6	ug/Kg	*		01/21/15 18:34	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	*		01/21/15 18:34	1
methyl isobutyl ketone	<5.8		5.8	1.5	ug/Kg	*		01/21/15 18:34	1
Methyl tert-butyl ether	<5.8		5.8	0.95	ug/Kg	*		01/21/15 18:34	1
Styrene	<5.8		5.8	0.76	ug/Kg	*		01/21/15 18:34	1
1,1,1,2-Tetrachloroethane	<5.8		5.8	1.2	ug/Kg	*		01/21/15 18:34	1
Tetrachloroethene	<5.8		5.8	0.88	ug/Kg	*		01/21/15 18:34	1
Toluene	<5.8		5.8	0.81	ug/Kg	*		01/21/15 18:34	1
trans-1,2-Dichloroethene	<5.8		5.8	0.79	ug/Kg	*		01/21/15 18:34	1
trans-1,3-Dichloropropene	<5.8		5.8	1.0	ug/Kg	*		01/21/15 18:34	1
1,1,1-Trichloroethane	<5.8		5.8	0.86	ug/Kg	*		01/21/15 18:34	1
1,1,2-Trichloroethane	<5.8		5.8	0.79	ug/Kg	*		01/21/15 18:34	1
Trichloroethene	<5.8		5.8	0.95	ug/Kg	*		01/21/15 18:34	1
Vinyl chloride	<5.8		5.8	1.2	ug/Kg	*		01/21/15 18:34	1
Xylenes, Total	<12		12	0.52	ug/Kg	*		01/21/15 18:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122		01/21/15 18:34	1
Dibromofluoromethane	107		75 - 120		01/21/15 18:34	1
1,2-Dichloroethane-d4 (Surr)	117		70 - 134		01/21/15 18:34	1
Toluene-d8 (Surr)	97		75 - 122		01/21/15 18:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	40	ug/Kg	*	01/20/15 07:14	01/22/15 04:40	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	*	01/20/15 07:14	01/22/15 04:40	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	*	01/20/15 07:14	01/22/15 04:40	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	*	01/20/15 07:14	01/22/15 04:40	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	*	01/20/15 07:14	01/22/15 04:40	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90936-1

Client Sample ID: ROW-17(0-3)-011515

Lab Sample ID: 500-90936-14

Date Collected: 01/16/15 11:00

Matrix: Solid

Date Received: 01/16/15 16:00

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	<370		370	85	ug/Kg	*	01/20/15 07:14	01/22/15 04:40	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	*	01/20/15 07:14	01/22/15 04:40	1
2,4-Dichlorophenol	<370		370	89	ug/Kg	*	01/20/15 07:14	01/22/15 04:40	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	*	01/20/15 07:14	01/22/15 04:40	1
2,4-Dinitrophenol	<750		750	660	ug/Kg	*	01/20/15 07:14	01/22/15 04:40	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	*	01/20/15 07:14	01/22/15 04:40	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	*	01/20/15 07:14	01/22/15 04:40	1
2-Chloronaphthalene	<190		190	41	ug/Kg	*	01/20/15 07:14	01/22/15 04:40	1
2-Chlorophenol	<190		190	64	ug/Kg	*	01/20/15 07:14	01/22/15 04:40	1
2-Methylnaphthalene	<37		37	6.9	ug/Kg	*	01/20/15 07:14	01/22/15 04:40	1
2-Methylphenol	<190		190	60	ug/Kg	*	01/20/15 07:14	01/22/15 04:40	1
2-Nitroaniline	<190		190	50	ug/Kg	*	01/20/15 07:14	01/22/15 04:40	1
2-Nitrophenol	<370		370	88	ug/Kg	*	01/20/15 07:14	01/22/15 04:40	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	*	01/20/15 07:14	01/22/15 04:40	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	*	01/20/15 07:14	01/22/15 04:40	1
3-Nitroaniline	<370		370	120	ug/Kg	*	01/20/15 07:14	01/22/15 04:40	1
4,6-Dinitro-2-methylphenol	<370		370	300	ug/Kg	*	01/20/15 07:14	01/22/15 04:40	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	*	01/20/15 07:14	01/22/15 04:40	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	*	01/20/15 07:14	01/22/15 04:40	1
4-Chloroaniline	<750		750	180	ug/Kg	*	01/20/15 07:14	01/22/15 04:40	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	*	01/20/15 07:14	01/22/15 04:40	1
4-Nitroaniline	<370		370	160	ug/Kg	*	01/20/15 07:14	01/22/15 04:40	1
4-Nitrophenol	<750		750	360	ug/Kg	*	01/20/15 07:14	01/22/15 04:40	1
Acenaphthene	<37		37	6.7	ug/Kg	*	01/20/15 07:14	01/22/15 04:40	1
Acenaphthylene	<37		37	4.9	ug/Kg	*	01/20/15 07:14	01/22/15 04:40	1
Anthracene	<37		37	6.2	ug/Kg	*	01/20/15 07:14	01/22/15 04:40	1
Benzo[a]anthracene	<37		37	5.0	ug/Kg	*	01/20/15 07:14	01/22/15 04:40	1
Benzo[a]pyrene	<37		37	7.2	ug/Kg	*	01/20/15 07:14	01/22/15 04:40	1
Benzo[b]fluoranthene	<37		37	8.1	ug/Kg	*	01/20/15 07:14	01/22/15 04:40	1
Benzo[g,h,i]perylene	<37		37	12	ug/Kg	*	01/20/15 07:14	01/22/15 04:40	1
Benzo[k]fluoranthene	<37		37	11	ug/Kg	*	01/20/15 07:14	01/22/15 04:40	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	*	01/20/15 07:14	01/22/15 04:40	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	*	01/20/15 07:14	01/22/15 04:40	1
Bis(2-ethylhexyl) phthalate	<190		190	68	ug/Kg	*	01/20/15 07:14	01/22/15 04:40	1
Butyl benzyl phthalate	<190		190	71	ug/Kg	*	01/20/15 07:14	01/22/15 04:40	1
Carbazole	<190		190	96	ug/Kg	*	01/20/15 07:14	01/22/15 04:40	1
Chrysene	12 J		37	10	ug/Kg	*	01/20/15 07:14	01/22/15 04:40	1
Dibenz(a,h)anthracene	<37		37	7.2	ug/Kg	*	01/20/15 07:14	01/22/15 04:40	1
Dibenzofuran	<190		190	44	ug/Kg	*	01/20/15 07:14	01/22/15 04:40	1
Diethyl phthalate	<190		190	63	ug/Kg	*	01/20/15 07:14	01/22/15 04:40	1
Dimethyl phthalate	<190		190	49	ug/Kg	*	01/20/15 07:14	01/22/15 04:40	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	*	01/20/15 07:14	01/22/15 04:40	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	*	01/20/15 07:14	01/22/15 04:40	1
Fluoranthene	<37		37	6.9	ug/Kg	*	01/20/15 07:14	01/22/15 04:40	1
Fluorene	<37		37	5.2	ug/Kg	*	01/20/15 07:14	01/22/15 04:40	1
Hexachlorobenzene	<75		75	8.7	ug/Kg	*	01/20/15 07:14	01/22/15 04:40	1
Hexachlorobutadiene	<190		190	59	ug/Kg	*	01/20/15 07:14	01/22/15 04:40	1
Hexachlorocyclopentadiene	<750		750	210	ug/Kg	*	01/20/15 07:14	01/22/15 04:40	1
Hexachloroethane	<190		190	57	ug/Kg	*	01/20/15 07:14	01/22/15 04:40	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90936-1

Client Sample ID: ROW-17(0-3)-011515

Lab Sample ID: 500-90936-14

Date Collected: 01/16/15 11:00

Matrix: Solid

Date Received: 01/16/15 16:00

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	<37		37	9.7	ug/Kg	☼	01/20/15 07:14	01/22/15 04:40	1
Isophorone	<190		190	42	ug/Kg	☼	01/20/15 07:14	01/22/15 04:40	1
Naphthalene	<37		37	5.7	ug/Kg	☼	01/20/15 07:14	01/22/15 04:40	1
Nitrobenzene	<37		37	9.3	ug/Kg	☼	01/20/15 07:14	01/22/15 04:40	1
N-Nitrosodi-n-propylamine	<190		190	46	ug/Kg	☼	01/20/15 07:14	01/22/15 04:40	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	01/20/15 07:14	01/22/15 04:40	1
Pentachlorophenol	<750		750	600	ug/Kg	☼	01/20/15 07:14	01/22/15 04:40	1
Phenanthrene	<37		37	5.2	ug/Kg	☼	01/20/15 07:14	01/22/15 04:40	1
Phenol	<190		190	83	ug/Kg	☼	01/20/15 07:14	01/22/15 04:40	1
Pyrene	8.0	J	37	7.4	ug/Kg	☼	01/20/15 07:14	01/22/15 04:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	50		35 - 137				01/20/15 07:14	01/22/15 04:40	1
2-Fluorobiphenyl	53		25 - 119				01/20/15 07:14	01/22/15 04:40	1
2-Fluorophenol	51		25 - 110				01/20/15 07:14	01/22/15 04:40	1
Nitrobenzene-d5	48		25 - 115				01/20/15 07:14	01/22/15 04:40	1
Phenol-d5	51		31 - 110				01/20/15 07:14	01/22/15 04:40	1
Terphenyl-d14	98		36 - 134				01/20/15 07:14	01/22/15 04:40	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/21/15 08:45	01/22/15 02:32	1
Barium	0.15	J	0.50	0.050	mg/L		01/21/15 08:45	01/22/15 02:32	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/21/15 08:45	01/22/15 02:32	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/21/15 08:45	01/22/15 02:32	1
Chromium	<0.025		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 02:32	1
Cobalt	<0.025		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 02:32	1
Copper	0.024	J	0.025	0.010	mg/L		01/21/15 08:45	01/22/15 02:32	1
Iron	<0.20		0.20	0.20	mg/L		01/21/15 08:45	01/22/15 02:32	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/21/15 08:45	01/22/15 02:32	1
Manganese	1.0		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 02:32	1
Nickel	<0.025		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 02:32	1
Selenium	<0.050		0.050	0.020	mg/L		01/21/15 08:45	01/22/15 02:32	1
Silver	<0.025		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 02:32	1
Zinc	0.042	J	0.10	0.020	mg/L		01/21/15 08:45	01/22/15 02:32	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		01/21/15 09:30	01/22/15 16:28	1
Barium	<0.50		0.50	0.050	mg/L		01/21/15 09:30	01/22/15 16:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/21/15 09:30	01/22/15 16:28	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/21/15 09:30	01/22/15 16:28	1
Chromium	<0.025		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 16:28	1
Cobalt	<0.025		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 16:28	1
Copper	0.032		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 16:28	1
Iron	1.7		0.20	0.20	mg/L		01/21/15 09:30	01/22/15 16:28	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/21/15 09:30	01/22/15 16:28	1
Manganese	0.033		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 16:28	1
Nickel	<0.025		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 16:28	1
Selenium	<0.050		0.050	0.020	mg/L		01/21/15 09:30	01/22/15 16:28	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90936-1

Client Sample ID: ROW-17(0-3)-011515

Lab Sample ID: 500-90936-14

Date Collected: 01/16/15 11:00

Matrix: Solid

Date Received: 01/16/15 16:00

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		01/21/15 09:30	01/22/15 16:28	1
Zinc	0.046	J	0.10	0.020	mg/L		01/21/15 09:30	01/22/15 16:28	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.35	J B	1.1	0.23	mg/Kg	☼	01/19/15 16:20	01/21/15 04:54	1
Arsenic	4.4		0.56	0.26	mg/Kg	☼	01/19/15 16:20	01/21/15 04:54	1
Barium	54		0.56	0.10	mg/Kg	☼	01/19/15 16:20	01/21/15 04:54	1
Beryllium	0.63		0.23	0.049	mg/Kg	☼	01/19/15 16:20	01/21/15 04:54	1
Cadmium	<0.11		0.11	0.033	mg/Kg	☼	01/19/15 16:20	01/21/15 20:01	1
Calcium	56000		11	3.6	mg/Kg	☼	01/19/15 16:20	01/21/15 04:54	1
Chromium	18		0.56	0.097	mg/Kg	☼	01/19/15 16:20	01/21/15 04:54	1
Cobalt	12		0.28	0.064	mg/Kg	☼	01/19/15 16:20	01/21/15 04:54	1
Copper	19		0.56	0.12	mg/Kg	☼	01/19/15 16:20	01/21/15 04:54	1
Iron	16000		11	4.3	mg/Kg	☼	01/19/15 16:20	01/21/15 04:54	1
Lead	12		0.28	0.14	mg/Kg	☼	01/19/15 16:20	01/21/15 04:54	1
Magnesium	31000		5.6	2.3	mg/Kg	☼	01/19/15 16:20	01/21/15 04:54	1
Manganese	530		0.56	0.11	mg/Kg	☼	01/19/15 16:20	01/21/15 04:54	1
Nickel	31		0.56	0.15	mg/Kg	☼	01/19/15 16:20	01/21/15 04:54	1
Potassium	3800		28	4.6	mg/Kg	☼	01/19/15 16:20	01/21/15 04:54	1
Selenium	<0.56		0.56	0.28	mg/Kg	☼	01/19/15 16:20	01/21/15 04:54	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	01/19/15 16:20	01/21/15 04:54	1
Sodium	1600		56	7.4	mg/Kg	☼	01/19/15 16:20	01/21/15 04:54	1
Thallium	0.70		0.56	0.28	mg/Kg	☼	01/19/15 16:20	01/21/15 04:54	1
Vanadium	20		0.28	0.082	mg/Kg	☼	01/19/15 16:20	01/21/15 04:54	1
Zinc	40	B	1.1	0.36	mg/Kg	☼	01/19/15 16:20	01/21/15 04:54	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		01/21/15 11:30	01/22/15 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		01/21/15 11:30	01/22/15 10:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	15	J	18	6.1	ug/Kg	☼	01/19/15 14:30	01/20/15 10:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.00		0.200	0.200	SU			01/21/15 12:41	1

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90936-1

Client Sample ID: ROW-13(0-3)-011515

Lab Sample ID: 500-90936-15

Date Collected: 01/16/15 11:10

Matrix: Solid

Date Received: 01/16/15 16:00

Percent Solids: 85.4

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.9		5.9	2.5	ug/Kg	*		01/21/15 18:58	1
Benzene	<5.9		5.9	0.80	ug/Kg	*		01/21/15 18:58	1
Bromodichloromethane	<5.9		5.9	1.0	ug/Kg	*		01/21/15 18:58	1
Bromoform	<5.9		5.9	1.3	ug/Kg	*		01/21/15 18:58	1
Bromomethane	<5.9		5.9	1.8	ug/Kg	*		01/21/15 18:58	1
Carbon disulfide	<5.9		5.9	0.87	ug/Kg	*		01/21/15 18:58	1
Carbon tetrachloride	<5.9		5.9	1.1	ug/Kg	*		01/21/15 18:58	1
Chlorobenzene	<5.9		5.9	0.59	ug/Kg	*		01/21/15 18:58	1
Chloroethane	<5.9		5.9	1.6	ug/Kg	*		01/21/15 18:58	1
Chloroform	<5.9		5.9	0.67	ug/Kg	*		01/21/15 18:58	1
Chloromethane	<5.9		5.9	1.2	ug/Kg	*		01/21/15 18:58	1
cis-1,2-Dichloroethene	<5.9		5.9	0.83	ug/Kg	*		01/21/15 18:58	1
cis-1,3-Dichloropropene	<5.9		5.9	0.77	ug/Kg	*		01/21/15 18:58	1
Dibromochloromethane	<5.9		5.9	1.0	ug/Kg	*		01/21/15 18:58	1
1,1-Dichloroethane	<5.9		5.9	0.93	ug/Kg	*		01/21/15 18:58	1
1,2-Dichloroethane	<5.9		5.9	0.87	ug/Kg	*		01/21/15 18:58	1
1,1-Dichloroethene	<5.9		5.9	0.95	ug/Kg	*		01/21/15 18:58	1
1,2-Dichloropropane	<5.9		5.9	0.89	ug/Kg	*		01/21/15 18:58	1
1,3-Dichloropropene, Total	<5.9		5.9	0.77	ug/Kg	*		01/21/15 18:58	1
Ethylbenzene	<5.9		5.9	1.2	ug/Kg	*		01/21/15 18:58	1
2-Hexanone	<5.9		5.9	1.7	ug/Kg	*		01/21/15 18:58	1
Methylene Chloride	<5.9		5.9	1.6	ug/Kg	*		01/21/15 18:58	1
Methyl Ethyl Ketone	<5.9		5.9	2.1	ug/Kg	*		01/21/15 18:58	1
methyl isobutyl ketone	<5.9		5.9	1.5	ug/Kg	*		01/21/15 18:58	1
Methyl tert-butyl ether	<5.9		5.9	0.97	ug/Kg	*		01/21/15 18:58	1
Styrene	<5.9		5.9	0.77	ug/Kg	*		01/21/15 18:58	1
1,1,1,2-Tetrachloroethane	<5.9		5.9	1.2	ug/Kg	*		01/21/15 18:58	1
Tetrachloroethene	<5.9		5.9	0.89	ug/Kg	*		01/21/15 18:58	1
Toluene	<5.9		5.9	0.82	ug/Kg	*		01/21/15 18:58	1
trans-1,2-Dichloroethene	<5.9		5.9	0.81	ug/Kg	*		01/21/15 18:58	1
trans-1,3-Dichloropropene	<5.9		5.9	1.0	ug/Kg	*		01/21/15 18:58	1
1,1,1-Trichloroethane	<5.9		5.9	0.87	ug/Kg	*		01/21/15 18:58	1
1,1,2-Trichloroethane	<5.9		5.9	0.80	ug/Kg	*		01/21/15 18:58	1
Trichloroethene	<5.9		5.9	0.97	ug/Kg	*		01/21/15 18:58	1
Vinyl chloride	<5.9		5.9	1.2	ug/Kg	*		01/21/15 18:58	1
Xylenes, Total	<12		12	0.53	ug/Kg	*		01/21/15 18:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 122		01/21/15 18:58	1
Dibromofluoromethane	107		75 - 120		01/21/15 18:58	1
1,2-Dichloroethane-d4 (Surr)	116		70 - 134		01/21/15 18:58	1
Toluene-d8 (Surr)	94		75 - 122		01/21/15 18:58	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	41	ug/Kg	*	01/20/15 07:14	01/22/15 05:03	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	*	01/20/15 07:14	01/22/15 05:03	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	*	01/20/15 07:14	01/22/15 05:03	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	*	01/20/15 07:14	01/22/15 05:03	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	*	01/20/15 07:14	01/22/15 05:03	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90936-1

Client Sample ID: ROW-13(0-3)-011515

Lab Sample ID: 500-90936-15

Date Collected: 01/16/15 11:10

Matrix: Solid

Date Received: 01/16/15 16:00

Percent Solids: 85.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<380		380	87	ug/Kg	☼	01/20/15 07:14	01/22/15 05:03	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	01/20/15 07:14	01/22/15 05:03	1
2,4-Dichlorophenol	<380		380	90	ug/Kg	☼	01/20/15 07:14	01/22/15 05:03	1
2,4-Dimethylphenol	<380		380	140	ug/Kg	☼	01/20/15 07:14	01/22/15 05:03	1
2,4-Dinitrophenol	<760		760	670	ug/Kg	☼	01/20/15 07:14	01/22/15 05:03	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	01/20/15 07:14	01/22/15 05:03	1
2,6-Dinitrotoluene	<190		190	75	ug/Kg	☼	01/20/15 07:14	01/22/15 05:03	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	01/20/15 07:14	01/22/15 05:03	1
2-Chlorophenol	<190		190	65	ug/Kg	☼	01/20/15 07:14	01/22/15 05:03	1
2-Methylnaphthalene	<38		38	7.0	ug/Kg	☼	01/20/15 07:14	01/22/15 05:03	1
2-Methylphenol	<190		190	61	ug/Kg	☼	01/20/15 07:14	01/22/15 05:03	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	01/20/15 07:14	01/22/15 05:03	1
2-Nitrophenol	<380		380	90	ug/Kg	☼	01/20/15 07:14	01/22/15 05:03	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	01/20/15 07:14	01/22/15 05:03	1
3,3'-Dichlorobenzidine	<190		190	53	ug/Kg	☼	01/20/15 07:14	01/22/15 05:03	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	01/20/15 07:14	01/22/15 05:03	1
4,6-Dinitro-2-methylphenol	<380		380	300	ug/Kg	☼	01/20/15 07:14	01/22/15 05:03	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	01/20/15 07:14	01/22/15 05:03	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	01/20/15 07:14	01/22/15 05:03	1
4-Chloroaniline	<760		760	180	ug/Kg	☼	01/20/15 07:14	01/22/15 05:03	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	01/20/15 07:14	01/22/15 05:03	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	01/20/15 07:14	01/22/15 05:03	1
4-Nitrophenol	<760		760	360	ug/Kg	☼	01/20/15 07:14	01/22/15 05:03	1
Acenaphthene	<38		38	6.8	ug/Kg	☼	01/20/15 07:14	01/22/15 05:03	1
Acenaphthylene	<38		38	5.0	ug/Kg	☼	01/20/15 07:14	01/22/15 05:03	1
Anthracene	<38		38	6.3	ug/Kg	☼	01/20/15 07:14	01/22/15 05:03	1
Benzo[a]anthracene	<38		38	5.1	ug/Kg	☼	01/20/15 07:14	01/22/15 05:03	1
Benzo[a]pyrene	<38		38	7.3	ug/Kg	☼	01/20/15 07:14	01/22/15 05:03	1
Benzo[b]fluoranthene	8.3 J		38	8.2	ug/Kg	☼	01/20/15 07:14	01/22/15 05:03	1
Benzo[g,h,i]perylene	<38		38	12	ug/Kg	☼	01/20/15 07:14	01/22/15 05:03	1
Benzo[k]fluoranthene	<38		38	11	ug/Kg	☼	01/20/15 07:14	01/22/15 05:03	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	01/20/15 07:14	01/22/15 05:03	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	01/20/15 07:14	01/22/15 05:03	1
Bis(2-ethylhexyl) phthalate	<190		190	69	ug/Kg	☼	01/20/15 07:14	01/22/15 05:03	1
Butyl benzyl phthalate	<190		190	72	ug/Kg	☼	01/20/15 07:14	01/22/15 05:03	1
Carbazole	<190		190	98	ug/Kg	☼	01/20/15 07:14	01/22/15 05:03	1
Chrysene	<38		38	10	ug/Kg	☼	01/20/15 07:14	01/22/15 05:03	1
Dibenz(a,h)anthracene	<38		38	7.3	ug/Kg	☼	01/20/15 07:14	01/22/15 05:03	1
Dibenzofuran	<190		190	44	ug/Kg	☼	01/20/15 07:14	01/22/15 05:03	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	01/20/15 07:14	01/22/15 05:03	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	01/20/15 07:14	01/22/15 05:03	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	01/20/15 07:14	01/22/15 05:03	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	01/20/15 07:14	01/22/15 05:03	1
Fluoranthene	<38		38	7.0	ug/Kg	☼	01/20/15 07:14	01/22/15 05:03	1
Fluorene	<38		38	5.3	ug/Kg	☼	01/20/15 07:14	01/22/15 05:03	1
Hexachlorobenzene	<76		76	8.8	ug/Kg	☼	01/20/15 07:14	01/22/15 05:03	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	01/20/15 07:14	01/22/15 05:03	1
Hexachlorocyclopentadiene	<760		760	220	ug/Kg	☼	01/20/15 07:14	01/22/15 05:03	1
Hexachloroethane	<190		190	58	ug/Kg	☼	01/20/15 07:14	01/22/15 05:03	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90936-1

Client Sample ID: ROW-13(0-3)-011515

Lab Sample ID: 500-90936-15

Date Collected: 01/16/15 11:10

Matrix: Solid

Date Received: 01/16/15 16:00

Percent Solids: 85.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<38		38	9.8	ug/Kg	☼	01/20/15 07:14	01/22/15 05:03	1
Isophorone	<190		190	43	ug/Kg	☼	01/20/15 07:14	01/22/15 05:03	1
Naphthalene	<38		38	5.8	ug/Kg	☼	01/20/15 07:14	01/22/15 05:03	1
Nitrobenzene	<38		38	9.5	ug/Kg	☼	01/20/15 07:14	01/22/15 05:03	1
N-Nitrosodi-n-propylamine	<190		190	46	ug/Kg	☼	01/20/15 07:14	01/22/15 05:03	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	01/20/15 07:14	01/22/15 05:03	1
Pentachlorophenol	<760		760	610	ug/Kg	☼	01/20/15 07:14	01/22/15 05:03	1
Phenanthrene	<38		38	5.3	ug/Kg	☼	01/20/15 07:14	01/22/15 05:03	1
Phenol	<190		190	84	ug/Kg	☼	01/20/15 07:14	01/22/15 05:03	1
Pyrene	<38		38	7.5	ug/Kg	☼	01/20/15 07:14	01/22/15 05:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	48		35 - 137				01/20/15 07:14	01/22/15 05:03	1
2-Fluorobiphenyl	55		25 - 119				01/20/15 07:14	01/22/15 05:03	1
2-Fluorophenol	51		25 - 110				01/20/15 07:14	01/22/15 05:03	1
Nitrobenzene-d5	49		25 - 115				01/20/15 07:14	01/22/15 05:03	1
Phenol-d5	53		31 - 110				01/20/15 07:14	01/22/15 05:03	1
Terphenyl-d14	99		36 - 134				01/20/15 07:14	01/22/15 05:03	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		01/21/15 08:45	01/22/15 02:53	1
Barium	0.41	J	0.50	0.050	mg/L		01/21/15 08:45	01/22/15 02:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/21/15 08:45	01/22/15 02:53	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/21/15 08:45	01/22/15 02:53	1
Chromium	<0.025		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 02:53	1
Cobalt	<0.025		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 02:53	1
Copper	0.034		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 02:53	1
Iron	0.27		0.20	0.20	mg/L		01/21/15 08:45	01/22/15 02:53	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/21/15 08:45	01/22/15 02:53	1
Manganese	0.58		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 02:53	1
Nickel	<0.025		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 02:53	1
Selenium	<0.050		0.050	0.020	mg/L		01/21/15 08:45	01/22/15 02:53	1
Silver	<0.025		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 02:53	1
Zinc	0.049	J	0.10	0.020	mg/L		01/21/15 08:45	01/22/15 02:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.049	J	0.050	0.010	mg/L		01/21/15 09:30	01/22/15 16:34	1
Barium	0.55		0.50	0.050	mg/L		01/21/15 09:30	01/22/15 16:34	1
Beryllium	0.0076		0.0040	0.0040	mg/L		01/21/15 09:30	01/22/15 16:34	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/21/15 09:30	01/22/15 16:34	1
Chromium	0.19		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 16:34	1
Cobalt	0.050		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 16:34	1
Copper	0.21		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 16:34	1
Iron	150		0.20	0.20	mg/L		01/21/15 09:30	01/22/15 16:34	1
Lead	0.074		0.0075	0.0075	mg/L		01/21/15 09:30	01/22/15 16:34	1
Manganese	0.86		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 16:34	1
Nickel	0.19		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 16:34	1
Selenium	<0.050		0.050	0.020	mg/L		01/21/15 09:30	01/22/15 16:34	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90936-1

Client Sample ID: ROW-13(0-3)-011515

Lab Sample ID: 500-90936-15

Date Collected: 01/16/15 11:10

Matrix: Solid

Date Received: 01/16/15 16:00

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		01/21/15 09:30	01/22/15 16:34	1
Zinc	0.42		0.10	0.020	mg/L		01/21/15 09:30	01/22/15 16:34	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.36	J B	1.1	0.23	mg/Kg	☼	01/19/15 16:20	01/21/15 05:00	1
Arsenic	6.0		0.56	0.26	mg/Kg	☼	01/19/15 16:20	01/21/15 05:00	1
Barium	44		0.56	0.10	mg/Kg	☼	01/19/15 16:20	01/21/15 05:00	1
Beryllium	0.58		0.22	0.048	mg/Kg	☼	01/19/15 16:20	01/21/15 05:00	1
Cadmium	<0.11		0.11	0.032	mg/Kg	☼	01/19/15 16:20	01/21/15 20:15	1
Calcium	75000		110	36	mg/Kg	☼	01/19/15 16:20	01/21/15 20:20	10
Chromium	17		0.56	0.096	mg/Kg	☼	01/19/15 16:20	01/21/15 05:00	1
Cobalt	5.6		0.28	0.063	mg/Kg	☼	01/19/15 16:20	01/21/15 05:00	1
Copper	20		0.56	0.12	mg/Kg	☼	01/19/15 16:20	01/21/15 05:00	1
Iron	17000		11	4.3	mg/Kg	☼	01/19/15 16:20	01/21/15 05:00	1
Lead	8.3		0.28	0.14	mg/Kg	☼	01/19/15 16:20	01/21/15 05:00	1
Magnesium	32000		5.6	2.3	mg/Kg	☼	01/19/15 16:20	01/21/15 05:00	1
Manganese	370		0.56	0.11	mg/Kg	☼	01/19/15 16:20	01/21/15 05:00	1
Nickel	20		0.56	0.15	mg/Kg	☼	01/19/15 16:20	01/21/15 05:00	1
Potassium	3300		28	4.6	mg/Kg	☼	01/19/15 16:20	01/21/15 05:00	1
Selenium	<0.56		0.56	0.28	mg/Kg	☼	01/19/15 16:20	01/21/15 05:00	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	01/19/15 16:20	01/21/15 05:00	1
Sodium	1500		56	7.4	mg/Kg	☼	01/19/15 16:20	01/21/15 05:00	1
Thallium	0.47	J	0.56	0.28	mg/Kg	☼	01/19/15 16:20	01/21/15 05:00	1
Vanadium	20		0.28	0.082	mg/Kg	☼	01/19/15 16:20	01/21/15 05:00	1
Zinc	39	B	1.1	0.35	mg/Kg	☼	01/19/15 16:20	01/21/15 05:00	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		01/21/15 11:30	01/22/15 09:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		01/21/15 11:30	01/22/15 10:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	16	J	18	6.3	ug/Kg	☼	01/19/15 14:30	01/20/15 10:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.82		0.200	0.200	SU			01/21/15 12:49	1

Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90936-1

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.
F1	MS and/or MSD Recovery exceeds the control limits

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD Recovery exceeds the control limits
F2	MS/MSD RPD exceeds control limits

Glossary

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

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90936-1

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-15

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

Analysis Method	Prep Method	Matrix	Analyte
7470A	7470A	Solid	Mercury
8260B		Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids



Report To (optional)
Contact: S Babusukumar
Company: Weston Solutions
Address: 300 Plaza Circle Sk 202
Address: Mundelein, IL 60060
Phone: (224) 864-7200
Fax:
E-Mail:

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

Chain of Custody Record

Lab Job #: 500-90936
Chain of Custody Number:
Page 1 of 3
Temperature °C of Cooler: (3.9) (4.2)

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 #		Containers		Matrix		Comments			
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	Matrix				
Weston				7	7	7	7	7			
IDOT 001											
Project Location/State		Lab Project #									
IL											
Sampler		Lab PM									
M. Strou		D. WRIGHT									
1		ROW-8 (0-3)-011515	1/15/15	1535	2	S	X	X	X	X	
2		ROW-7 (0-3)-011515		1540							
3		ROW-6 (0-3)-011515		1550							
4		ROW-5 (0-3)-011515		1600							
5		ROW-4 (0-3)-011515		1610							
6		A43-1 (0-3)-011515		1645							
7		ROW-15 (0-3)-011615	1/16/15	0830							
8		ROW-16 (0-3)-011615		0840							
9		ROW-16 (0-3)-011615		0840							
10		ROW-18 (0-3)-011615		0850							

Turnaround Time Required (Business Days)

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

Requested Due Date

Sample Disposal

Return to Client

Disposal by Lab

Archive for _____ Months

(A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>M. Strou</u>	Company Weston	Date 1/16/15	Time 1420	Received By <u>[Signature]</u>	Company TA	Date 1/16/15	Time 1420
Relinquished By <u>[Signature]</u>	Company TA	Date 1/16/15	Time 1600	Received By <u>[Signature]</u>	Company TA	Date 1/16/15	Time 1600
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: S. Babusulekumar
 Company: Weston Solutions
 Address: 300 Plaza Circle Ste 202
Mundelein, IL 60060
 Phone: (224) 864-7200
 Fax:
 E-Mail:

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

Chain of Custody Record

Lab Job #: 500-90936
 Chain of Custody Number:
 Page 2 of 3
 Temperature °C of Cooler:

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				
Sampler		Lab PM		# of Containers		Matrix		Matrix		Comments
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	Matrix	Matrix	Matrix	
11		ROW-19(0-3)-011615	1/16/15	0905	2	S	VOCs	X	X	
12		ROW-21(0-3)-011615		0935			SVOCs	X	X	
13		ROW-20(0-3)-011615		0950			Total Metals	X	X	
14		ROW-17(0-3)-011615		1100			Temp/SPLP Metals	X	X	
15		ROW-13(0-3)-011615		1110			pH	X	X	
16		LT-2(0-3)-011615		1130						
17		LT-1(0-3)-011615		1150						
18		LL-2(0-3)-011615		1210						
19		LL-1(0-3)-011615		1225						
20		CL-1(0-3)-011615		1230						

Turnaround Time Required (Business Days)

1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Standard 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>M. Straw</u> Company <u>Weston</u> Date <u>1/16/15</u> Time <u>1420</u>	Received By <u>[Signature]</u> Company <u>TA</u> Date <u>1/16/15</u> Time <u>1420</u>
Relinquished By <u>[Signature]</u> Company <u>TA</u> Date <u>1/16/15</u> Time <u>1600</u>	Received By <u>[Signature]</u> Company <u>TA</u> Date <u>1/16/15</u> Time <u>1600</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: 500-90937-1
Client Project/Site: IDOT - Lake County - WO 001

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

Attn: Mr. S. Babusukumar



Authorized for release by:
1/26/2015 1:40:42 PM

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

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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 - Lake County - WO 001

TestAmerica Job ID: 500-90937-1

Client Sample ID: ROW-12(0-3)-011615

Lab Sample ID: 500-90937-4

Date Collected: 01/16/15 13:10

Matrix: Solid

Date Received: 01/16/15 16:00

Percent Solids: 86.2

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	86		5.8	2.5	ug/Kg	☼		01/19/15 21:09	1
Benzene	<5.8		5.8	0.79	ug/Kg	☼		01/19/15 21:09	1
Bromodichloromethane	<5.8		5.8	1.0	ug/Kg	☼		01/19/15 21:09	1
Bromoform	<5.8		5.8	1.3	ug/Kg	☼		01/19/15 21:09	1
Bromomethane	<5.8		5.8	1.8	ug/Kg	☼		01/19/15 21:09	1
Carbon disulfide	<5.8		5.8	0.87	ug/Kg	☼		01/19/15 21:09	1
Carbon tetrachloride	<5.8		5.8	1.1	ug/Kg	☼		01/19/15 21:09	1
Chlorobenzene	<5.8		5.8	0.59	ug/Kg	☼		01/19/15 21:09	1
Chloroethane	<5.8		5.8	1.6	ug/Kg	☼		01/19/15 21:09	1
Chloroform	<5.8		5.8	0.67	ug/Kg	☼		01/19/15 21:09	1
Chloromethane	<5.8		5.8	1.2	ug/Kg	☼		01/19/15 21:09	1
cis-1,2-Dichloroethene	<5.8		5.8	0.82	ug/Kg	☼		01/19/15 21:09	1
cis-1,3-Dichloropropene	<5.8		5.8	0.76	ug/Kg	☼		01/19/15 21:09	1
Dibromochloromethane	<5.8		5.8	1.0	ug/Kg	☼		01/19/15 21:09	1
1,1-Dichloroethane	<5.8		5.8	0.92	ug/Kg	☼		01/19/15 21:09	1
1,2-Dichloroethane	<5.8		5.8	0.86	ug/Kg	☼		01/19/15 21:09	1
1,1-Dichloroethene	<5.8		5.8	0.94	ug/Kg	☼		01/19/15 21:09	1
1,2-Dichloropropane	<5.8		5.8	0.88	ug/Kg	☼		01/19/15 21:09	1
1,3-Dichloropropene, Total	<5.8		5.8	0.76	ug/Kg	☼		01/19/15 21:09	1
Ethylbenzene	<5.8		5.8	1.2	ug/Kg	☼		01/19/15 21:09	1
2-Hexanone	<5.8		5.8	1.7	ug/Kg	☼		01/19/15 21:09	1
Methylene Chloride	<5.8		5.8	1.6	ug/Kg	☼		01/19/15 21:09	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		01/19/15 21:09	1
methyl isobutyl ketone	<5.8		5.8	1.5	ug/Kg	☼		01/19/15 21:09	1
Methyl tert-butyl ether	<5.8		5.8	0.96	ug/Kg	☼		01/19/15 21:09	1
Styrene	<5.8		5.8	0.76	ug/Kg	☼		01/19/15 21:09	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	1.2	ug/Kg	☼		01/19/15 21:09	1
Tetrachloroethene	<5.8		5.8	0.89	ug/Kg	☼		01/19/15 21:09	1
Toluene	<5.8		5.8	0.81	ug/Kg	☼		01/19/15 21:09	1
trans-1,2-Dichloroethene	<5.8		5.8	0.80	ug/Kg	☼		01/19/15 21:09	1
trans-1,3-Dichloropropene	<5.8		5.8	1.0	ug/Kg	☼		01/19/15 21:09	1
1,1,1-Trichloroethane	<5.8		5.8	0.87	ug/Kg	☼		01/19/15 21:09	1
1,1,2-Trichloroethane	<5.8		5.8	0.79	ug/Kg	☼		01/19/15 21:09	1
Trichloroethene	<5.8		5.8	0.96	ug/Kg	☼		01/19/15 21:09	1
Vinyl chloride	<5.8		5.8	1.2	ug/Kg	☼		01/19/15 21:09	1
Xylenes, Total	<12		12	0.53	ug/Kg	☼		01/19/15 21:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122		01/19/15 21:09	1
Dibromofluoromethane	104		75 - 120		01/19/15 21:09	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134		01/19/15 21:09	1
Toluene-d8 (Surr)	97		75 - 122		01/19/15 21:09	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	41	ug/Kg	☼	01/19/15 07:34	01/22/15 18:19	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	01/19/15 07:34	01/22/15 18:19	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	01/19/15 07:34	01/22/15 18:19	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	01/19/15 07:34	01/22/15 18:19	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	01/19/15 07:34	01/22/15 18:19	1

TestAmerica Chicago

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Client: Weston Solutions, Inc.
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TestAmerica Job ID: 500-90937-1

Client Sample ID: ROW-12(0-3)-011615

Lab Sample ID: 500-90937-4

Date Collected: 01/16/15 13:10

Matrix: Solid

Date Received: 01/16/15 16:00

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	<380		380	88	ug/Kg	☼	01/19/15 07:34	01/22/15 18:19	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	01/19/15 07:34	01/22/15 18:19	1
2,4-Dichlorophenol	<380		380	91	ug/Kg	☼	01/19/15 07:34	01/22/15 18:19	1
2,4-Dimethylphenol	<380		380	150	ug/Kg	☼	01/19/15 07:34	01/22/15 18:19	1
2,4-Dinitrophenol	<770	*	770	680	ug/Kg	☼	01/19/15 07:34	01/22/15 18:19	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	01/19/15 07:34	01/22/15 18:19	1
2,6-Dinitrotoluene	<190		190	75	ug/Kg	☼	01/19/15 07:34	01/22/15 18:19	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	01/19/15 07:34	01/22/15 18:19	1
2-Chlorophenol	<190		190	66	ug/Kg	☼	01/19/15 07:34	01/22/15 18:19	1
2-Methylnaphthalene	<38		38	7.1	ug/Kg	☼	01/19/15 07:34	01/22/15 18:19	1
2-Methylphenol	<190		190	62	ug/Kg	☼	01/19/15 07:34	01/22/15 18:19	1
2-Nitroaniline	<190		190	52	ug/Kg	☼	01/19/15 07:34	01/22/15 18:19	1
2-Nitrophenol	<380		380	91	ug/Kg	☼	01/19/15 07:34	01/22/15 18:19	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	☼	01/19/15 07:34	01/22/15 18:19	1
3,3'-Dichlorobenzidine	<190		190	54	ug/Kg	☼	01/19/15 07:34	01/22/15 18:19	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	01/19/15 07:34	01/22/15 18:19	1
4,6-Dinitro-2-methylphenol	<380	*	380	310	ug/Kg	☼	01/19/15 07:34	01/22/15 18:19	1
4-Bromophenyl phenyl ether	<190		190	51	ug/Kg	☼	01/19/15 07:34	01/22/15 18:19	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	01/19/15 07:34	01/22/15 18:19	1
4-Chloroaniline	<770		770	180	ug/Kg	☼	01/19/15 07:34	01/22/15 18:19	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	01/19/15 07:34	01/22/15 18:19	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	01/19/15 07:34	01/22/15 18:19	1
4-Nitrophenol	<770		770	370	ug/Kg	☼	01/19/15 07:34	01/22/15 18:19	1
Acenaphthene	<38		38	6.9	ug/Kg	☼	01/19/15 07:34	01/22/15 18:19	1
Acenaphthylene	<38		38	5.1	ug/Kg	☼	01/19/15 07:34	01/22/15 18:19	1
Anthracene	8.1	J	38	6.4	ug/Kg	☼	01/19/15 07:34	01/22/15 18:19	1
Benzo[a]anthracene	29	J	38	5.2	ug/Kg	☼	01/19/15 07:34	01/22/15 18:19	1
Benzo[a]pyrene	25	J	38	7.4	ug/Kg	☼	01/19/15 07:34	01/22/15 18:19	1
Benzo[b]fluoranthene	36	J	38	8.3	ug/Kg	☼	01/19/15 07:34	01/22/15 18:19	1
Benzo[g,h,i]perylene	20	J	38	12	ug/Kg	☼	01/19/15 07:34	01/22/15 18:19	1
Benzo[k]fluoranthene	18	J	38	11	ug/Kg	☼	01/19/15 07:34	01/22/15 18:19	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	01/19/15 07:34	01/22/15 18:19	1
Bis(2-chloroethyl)ether	<190		190	58	ug/Kg	☼	01/19/15 07:34	01/22/15 18:19	1
Bis(2-ethylhexyl) phthalate	<190		190	70	ug/Kg	☼	01/19/15 07:34	01/22/15 18:19	1
Butyl benzyl phthalate	<190		190	73	ug/Kg	☼	01/19/15 07:34	01/22/15 18:19	1
Carbazole	<190		190	99	ug/Kg	☼	01/19/15 07:34	01/22/15 18:19	1
Chrysene	36	J	38	10	ug/Kg	☼	01/19/15 07:34	01/22/15 18:19	1
Dibenz(a,h)anthracene	<38		38	7.4	ug/Kg	☼	01/19/15 07:34	01/22/15 18:19	1
Dibenzofuran	<190		190	45	ug/Kg	☼	01/19/15 07:34	01/22/15 18:19	1
Diethyl phthalate	<190		190	65	ug/Kg	☼	01/19/15 07:34	01/22/15 18:19	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	01/19/15 07:34	01/22/15 18:19	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	01/19/15 07:34	01/22/15 18:19	1
Di-n-octyl phthalate	<190		190	63	ug/Kg	☼	01/19/15 07:34	01/22/15 18:19	1
Fluoranthene	69		38	7.1	ug/Kg	☼	01/19/15 07:34	01/22/15 18:19	1
Fluorene	<38		38	5.4	ug/Kg	☼	01/19/15 07:34	01/22/15 18:19	1
Hexachlorobenzene	<77		77	8.9	ug/Kg	☼	01/19/15 07:34	01/22/15 18:19	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	01/19/15 07:34	01/22/15 18:19	1
Hexachlorocyclopentadiene	<770		770	220	ug/Kg	☼	01/19/15 07:34	01/22/15 18:19	1
Hexachloroethane	<190		190	58	ug/Kg	☼	01/19/15 07:34	01/22/15 18:19	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90937-1

Client Sample ID: ROW-12(0-3)-011615

Lab Sample ID: 500-90937-4

Date Collected: 01/16/15 13:10

Matrix: Solid

Date Received: 01/16/15 16:00

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	15	J	38	10	ug/Kg	☼	01/19/15 07:34	01/22/15 18:19	1
Isophorone	<190		190	43	ug/Kg	☼	01/19/15 07:34	01/22/15 18:19	1
Naphthalene	<38		38	5.9	ug/Kg	☼	01/19/15 07:34	01/22/15 18:19	1
Nitrobenzene	<38		38	9.6	ug/Kg	☼	01/19/15 07:34	01/22/15 18:19	1
N-Nitrosodi-n-propylamine	<190		190	47	ug/Kg	☼	01/19/15 07:34	01/22/15 18:19	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	01/19/15 07:34	01/22/15 18:19	1
Pentachlorophenol	<770		770	620	ug/Kg	☼	01/19/15 07:34	01/22/15 18:19	1
Phenanthrene	47		38	5.4	ug/Kg	☼	01/19/15 07:34	01/22/15 18:19	1
Phenol	<190		190	85	ug/Kg	☼	01/19/15 07:34	01/22/15 18:19	1
Pyrene	54		38	7.6	ug/Kg	☼	01/19/15 07:34	01/22/15 18:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	57		35 - 137				01/19/15 07:34	01/22/15 18:19	1
2-Fluorobiphenyl	58		25 - 119				01/19/15 07:34	01/22/15 18:19	1
2-Fluorophenol	54		25 - 110				01/19/15 07:34	01/22/15 18:19	1
Nitrobenzene-d5	46		25 - 115				01/19/15 07:34	01/22/15 18:19	1
Phenol-d5	56		31 - 110				01/19/15 07:34	01/22/15 18:19	1
Terphenyl-d14	70		36 - 134				01/19/15 07:34	01/22/15 18:19	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.011	J	0.050	0.010	mg/L		01/20/15 08:00	01/20/15 18:40	1
Barium	0.65		0.50	0.050	mg/L		01/20/15 08:00	01/20/15 18:40	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/20/15 08:00	01/20/15 18:40	1
Cadmium	0.0029	J	0.0050	0.0020	mg/L		01/20/15 08:00	01/20/15 18:40	1
Chromium	<0.025		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 18:40	1
Cobalt	0.017	J	0.025	0.010	mg/L		01/20/15 08:00	01/20/15 18:40	1
Copper	0.038		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 18:40	1
Iron	1.0		0.20	0.20	mg/L		01/20/15 08:00	01/20/15 18:40	1
Lead	0.017		0.0075	0.0075	mg/L		01/20/15 08:00	01/20/15 18:40	1
Manganese	5.4		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 18:40	1
Nickel	0.014	J	0.025	0.010	mg/L		01/20/15 08:00	01/20/15 18:40	1
Selenium	<0.050		0.050	0.020	mg/L		01/20/15 08:00	01/20/15 18:40	1
Silver	<0.025		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 18:40	1
Zinc	0.13		0.10	0.020	mg/L		01/20/15 08:00	01/20/15 18:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.076		0.050	0.010	mg/L		01/20/15 14:30	01/22/15 04:15	1
Barium	0.76		0.50	0.050	mg/L		01/20/15 14:30	01/22/15 04:15	1
Beryllium	0.0071		0.0040	0.0040	mg/L		01/20/15 14:30	01/22/15 04:15	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/20/15 14:30	01/22/15 04:15	1
Chromium	0.18		0.025	0.010	mg/L		01/20/15 14:30	01/22/15 04:15	1
Cobalt	0.061		0.025	0.010	mg/L		01/20/15 14:30	01/22/15 04:15	1
Copper	0.31		0.025	0.010	mg/L		01/20/15 14:30	01/22/15 04:15	1
Iron	170		0.20	0.20	mg/L		01/20/15 14:30	01/22/15 04:15	1
Lead	0.30		0.0075	0.0075	mg/L		01/20/15 14:30	01/22/15 04:15	1
Manganese	1.6		0.025	0.010	mg/L		01/20/15 14:30	01/22/15 04:15	1
Nickel	0.14		0.025	0.010	mg/L		01/20/15 14:30	01/22/15 04:15	1
Selenium	<0.050		0.050	0.020	mg/L		01/20/15 14:30	01/22/15 04:15	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
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TestAmerica Job ID: 500-90937-1

Client Sample ID: ROW-12(0-3)-011615

Lab Sample ID: 500-90937-4

Date Collected: 01/16/15 13:10

Matrix: Solid

Date Received: 01/16/15 16:00

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		01/20/15 14:30	01/22/15 04:15	1
Zinc	0.68		0.10	0.020	mg/L		01/20/15 14:30	01/22/15 04:15	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.43	J B	1.1	0.23	mg/Kg	☼	01/19/15 16:20	01/21/15 00:05	1
Arsenic	6.7		0.55	0.25	mg/Kg	☼	01/19/15 16:20	01/21/15 00:05	1
Barium	73		0.55	0.10	mg/Kg	☼	01/19/15 16:20	01/21/15 00:05	1
Beryllium	0.64		0.22	0.048	mg/Kg	☼	01/19/15 16:20	01/21/15 00:05	1
Cadmium	0.30		0.11	0.032	mg/Kg	☼	01/19/15 16:20	01/21/15 16:16	1
Calcium	17000		11	3.5	mg/Kg	☼	01/19/15 16:20	01/21/15 00:05	1
Chromium	16		0.55	0.095	mg/Kg	☼	01/19/15 16:20	01/21/15 00:05	1
Cobalt	7.4		0.27	0.062	mg/Kg	☼	01/19/15 16:20	01/21/15 00:05	1
Copper	24		0.55	0.12	mg/Kg	☼	01/19/15 16:20	01/21/15 00:05	1
Iron	16000		11	4.2	mg/Kg	☼	01/19/15 16:20	01/21/15 00:05	1
Lead	33		0.27	0.14	mg/Kg	☼	01/19/15 16:20	01/21/15 00:05	1
Magnesium	11000		5.5	2.2	mg/Kg	☼	01/19/15 16:20	01/21/15 00:05	1
Manganese	270		0.55	0.11	mg/Kg	☼	01/19/15 16:20	01/21/15 00:05	1
Nickel	16		0.55	0.15	mg/Kg	☼	01/19/15 16:20	01/21/15 00:05	1
Potassium	1700		27	4.5	mg/Kg	☼	01/19/15 16:20	01/21/15 00:05	1
Selenium	<0.55		0.55	0.27	mg/Kg	☼	01/19/15 16:20	01/21/15 00:05	1
Silver	<0.27		0.27	0.064	mg/Kg	☼	01/19/15 16:20	01/21/15 00:05	1
Sodium	1500		55	7.3	mg/Kg	☼	01/19/15 16:20	01/21/15 00:05	1
Thallium	0.44	J	0.55	0.27	mg/Kg	☼	01/19/15 16:20	01/21/15 00:05	1
Vanadium	23		0.27	0.080	mg/Kg	☼	01/19/15 16:20	01/21/15 00:05	1
Zinc	79	B	1.1	0.35	mg/Kg	☼	01/19/15 16:20	01/21/15 00:05	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		01/21/15 11:30	01/22/15 08:50	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		01/21/15 11:30	01/22/15 11:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	42		19	6.8	ug/Kg	☼	01/19/15 14:30	01/20/15 08:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.98		0.200	0.200	SU			01/21/15 14:06	1

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90937-1

Client Sample ID: ROW-11(0-3)-011615

Lab Sample ID: 500-90937-5

Date Collected: 01/16/15 13:35

Matrix: Solid

Date Received: 01/16/15 16:00

Percent Solids: 83.6

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	190		6.0	2.6	ug/Kg	☼		01/19/15 21:34	1
Benzene	<6.0		6.0	0.82	ug/Kg	☼		01/19/15 21:34	1
Bromodichloromethane	<6.0		6.0	1.0	ug/Kg	☼		01/19/15 21:34	1
Bromoform	<6.0		6.0	1.4	ug/Kg	☼		01/19/15 21:34	1
Bromomethane	<6.0		6.0	1.8	ug/Kg	☼		01/19/15 21:34	1
Carbon disulfide	<6.0		6.0	0.89	ug/Kg	☼		01/19/15 21:34	1
Carbon tetrachloride	<6.0		6.0	1.1	ug/Kg	☼		01/19/15 21:34	1
Chlorobenzene	<6.0		6.0	0.61	ug/Kg	☼		01/19/15 21:34	1
Chloroethane	<6.0		6.0	1.6	ug/Kg	☼		01/19/15 21:34	1
Chloroform	<6.0		6.0	0.69	ug/Kg	☼		01/19/15 21:34	1
Chloromethane	<6.0		6.0	1.3	ug/Kg	☼		01/19/15 21:34	1
cis-1,2-Dichloroethene	<6.0		6.0	0.85	ug/Kg	☼		01/19/15 21:34	1
cis-1,3-Dichloropropene	<6.0		6.0	0.79	ug/Kg	☼		01/19/15 21:34	1
Dibromochloromethane	<6.0		6.0	1.0	ug/Kg	☼		01/19/15 21:34	1
1,1-Dichloroethane	<6.0		6.0	0.95	ug/Kg	☼		01/19/15 21:34	1
1,2-Dichloroethane	<6.0		6.0	0.89	ug/Kg	☼		01/19/15 21:34	1
1,1,1-Dichloroethene	<6.0		6.0	0.97	ug/Kg	☼		01/19/15 21:34	1
1,2-Dichloropropane	<6.0		6.0	0.91	ug/Kg	☼		01/19/15 21:34	1
1,3-Dichloropropene, Total	<6.0		6.0	0.79	ug/Kg	☼		01/19/15 21:34	1
Ethylbenzene	<6.0		6.0	1.2	ug/Kg	☼		01/19/15 21:34	1
2-Hexanone	<6.0		6.0	1.7	ug/Kg	☼		01/19/15 21:34	1
Methylene Chloride	<6.0		6.0	1.6	ug/Kg	☼		01/19/15 21:34	1
Methyl Ethyl Ketone	36		6.0	2.2	ug/Kg	☼		01/19/15 21:34	1
methyl isobutyl ketone	<6.0		6.0	1.6	ug/Kg	☼		01/19/15 21:34	1
Methyl tert-butyl ether	<6.0		6.0	0.99	ug/Kg	☼		01/19/15 21:34	1
Styrene	<6.0		6.0	0.79	ug/Kg	☼		01/19/15 21:34	1
1,1,1,2-Tetrachloroethane	<6.0		6.0	1.2	ug/Kg	☼		01/19/15 21:34	1
Tetrachloroethene	<6.0		6.0	0.91	ug/Kg	☼		01/19/15 21:34	1
Toluene	<6.0		6.0	0.84	ug/Kg	☼		01/19/15 21:34	1
trans-1,2-Dichloroethene	<6.0		6.0	0.82	ug/Kg	☼		01/19/15 21:34	1
trans-1,3-Dichloropropene	<6.0		6.0	1.1	ug/Kg	☼		01/19/15 21:34	1
1,1,1-Trichloroethane	<6.0		6.0	0.89	ug/Kg	☼		01/19/15 21:34	1
1,1,2-Trichloroethane	<6.0		6.0	0.82	ug/Kg	☼		01/19/15 21:34	1
Trichloroethene	<6.0		6.0	0.99	ug/Kg	☼		01/19/15 21:34	1
Vinyl chloride	<6.0		6.0	1.3	ug/Kg	☼		01/19/15 21:34	1
Xylenes, Total	<12		12	0.54	ug/Kg	☼		01/19/15 21:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122		01/19/15 21:34	1
Dibromofluoromethane	106		75 - 120		01/19/15 21:34	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134		01/19/15 21:34	1
Toluene-d8 (Surr)	100		75 - 122		01/19/15 21:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	41	ug/Kg	☼	01/19/15 07:34	01/23/15 10:28	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	01/19/15 07:34	01/23/15 10:28	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	01/19/15 07:34	01/23/15 10:28	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	01/19/15 07:34	01/23/15 10:28	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	01/19/15 07:34	01/23/15 10:28	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90937-1

Client Sample ID: ROW-11(0-3)-011615

Lab Sample ID: 500-90937-5

Date Collected: 01/16/15 13:35

Matrix: Solid

Date Received: 01/16/15 16:00

Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<380		380	86	ug/Kg	☼	01/19/15 07:34	01/23/15 10:28	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	01/19/15 07:34	01/23/15 10:28	1
2,4-Dichlorophenol	<380		380	90	ug/Kg	☼	01/19/15 07:34	01/23/15 10:28	1
2,4-Dimethylphenol	<380		380	140	ug/Kg	☼	01/19/15 07:34	01/23/15 10:28	1
2,4-Dinitrophenol	<760	*	760	670	ug/Kg	☼	01/19/15 07:34	01/23/15 10:28	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	01/19/15 07:34	01/23/15 10:28	1
2,6-Dinitrotoluene	<190		190	74	ug/Kg	☼	01/19/15 07:34	01/23/15 10:28	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	01/19/15 07:34	01/23/15 10:28	1
2-Chlorophenol	<190		190	65	ug/Kg	☼	01/19/15 07:34	01/23/15 10:28	1
2-Methylnaphthalene	<38		38	7.0	ug/Kg	☼	01/19/15 07:34	01/23/15 10:28	1
2-Methylphenol	<190		190	61	ug/Kg	☼	01/19/15 07:34	01/23/15 10:28	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	01/19/15 07:34	01/23/15 10:28	1
2-Nitrophenol	<380		380	89	ug/Kg	☼	01/19/15 07:34	01/23/15 10:28	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	01/19/15 07:34	01/23/15 10:28	1
3,3'-Dichlorobenzidine	<190		190	53	ug/Kg	☼	01/19/15 07:34	01/23/15 10:28	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	01/19/15 07:34	01/23/15 10:28	1
4,6-Dinitro-2-methylphenol	<380	*	380	300	ug/Kg	☼	01/19/15 07:34	01/23/15 10:28	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	01/19/15 07:34	01/23/15 10:28	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	01/19/15 07:34	01/23/15 10:28	1
4-Chloroaniline	<760		760	180	ug/Kg	☼	01/19/15 07:34	01/23/15 10:28	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	01/19/15 07:34	01/23/15 10:28	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	01/19/15 07:34	01/23/15 10:28	1
4-Nitrophenol	<760		760	360	ug/Kg	☼	01/19/15 07:34	01/23/15 10:28	1
Acenaphthene	<38		38	6.8	ug/Kg	☼	01/19/15 07:34	01/23/15 10:28	1
Acenaphthylene	<38		38	5.0	ug/Kg	☼	01/19/15 07:34	01/23/15 10:28	1
Anthracene	<38		38	6.3	ug/Kg	☼	01/19/15 07:34	01/23/15 10:28	1
Benzo[a]anthracene	20	J	38	5.1	ug/Kg	☼	01/19/15 07:34	01/23/15 10:28	1
Benzo[a]pyrene	14	J	38	7.3	ug/Kg	☼	01/19/15 07:34	01/23/15 10:28	1
Benzo[b]fluoranthene	22	J	38	8.2	ug/Kg	☼	01/19/15 07:34	01/23/15 10:28	1
Benzo[g,h,i]perylene	13	J	38	12	ug/Kg	☼	01/19/15 07:34	01/23/15 10:28	1
Benzo[k]fluoranthene	<38		38	11	ug/Kg	☼	01/19/15 07:34	01/23/15 10:28	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	01/19/15 07:34	01/23/15 10:28	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	01/19/15 07:34	01/23/15 10:28	1
Bis(2-ethylhexyl) phthalate	<190		190	69	ug/Kg	☼	01/19/15 07:34	01/23/15 10:28	1
Butyl benzyl phthalate	<190		190	72	ug/Kg	☼	01/19/15 07:34	01/23/15 10:28	1
Carbazole	<190		190	98	ug/Kg	☼	01/19/15 07:34	01/23/15 10:28	1
Chrysene	22	J	38	10	ug/Kg	☼	01/19/15 07:34	01/23/15 10:28	1
Dibenz(a,h)anthracene	<38		38	7.3	ug/Kg	☼	01/19/15 07:34	01/23/15 10:28	1
Dibenzofuran	<190		190	44	ug/Kg	☼	01/19/15 07:34	01/23/15 10:28	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	01/19/15 07:34	01/23/15 10:28	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	01/19/15 07:34	01/23/15 10:28	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	01/19/15 07:34	01/23/15 10:28	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	01/19/15 07:34	01/23/15 10:28	1
Fluoranthene	37	J	38	7.0	ug/Kg	☼	01/19/15 07:34	01/23/15 10:28	1
Fluorene	<38		38	5.3	ug/Kg	☼	01/19/15 07:34	01/23/15 10:28	1
Hexachlorobenzene	<76		76	8.8	ug/Kg	☼	01/19/15 07:34	01/23/15 10:28	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	01/19/15 07:34	01/23/15 10:28	1
Hexachlorocyclopentadiene	<760		760	220	ug/Kg	☼	01/19/15 07:34	01/23/15 10:28	1
Hexachloroethane	<190		190	58	ug/Kg	☼	01/19/15 07:34	01/23/15 10:28	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90937-1

Client Sample ID: ROW-11(0-3)-011615

Lab Sample ID: 500-90937-5

Date Collected: 01/16/15 13:35

Matrix: Solid

Date Received: 01/16/15 16:00

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	9.8	J	38	9.8	ug/Kg	☼	01/19/15 07:34	01/23/15 10:28	1
Isophorone	<190		190	42	ug/Kg	☼	01/19/15 07:34	01/23/15 10:28	1
Naphthalene	<38		38	5.8	ug/Kg	☼	01/19/15 07:34	01/23/15 10:28	1
Nitrobenzene	<38		38	9.4	ug/Kg	☼	01/19/15 07:34	01/23/15 10:28	1
N-Nitrosodi-n-propylamine	<190		190	46	ug/Kg	☼	01/19/15 07:34	01/23/15 10:28	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	01/19/15 07:34	01/23/15 10:28	1
Pentachlorophenol	<760		760	610	ug/Kg	☼	01/19/15 07:34	01/23/15 10:28	1
Phenanthrene	20	J	38	5.3	ug/Kg	☼	01/19/15 07:34	01/23/15 10:28	1
Phenol	<190		190	84	ug/Kg	☼	01/19/15 07:34	01/23/15 10:28	1
Pyrene	28	J	38	7.5	ug/Kg	☼	01/19/15 07:34	01/23/15 10:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	56		35 - 137				01/19/15 07:34	01/23/15 10:28	1
2-Fluorobiphenyl	57		25 - 119				01/19/15 07:34	01/23/15 10:28	1
2-Fluorophenol	53		25 - 110				01/19/15 07:34	01/23/15 10:28	1
Nitrobenzene-d5	45		25 - 115				01/19/15 07:34	01/23/15 10:28	1
Phenol-d5	57		31 - 110				01/19/15 07:34	01/23/15 10:28	1
Terphenyl-d14	69		36 - 134				01/19/15 07:34	01/23/15 10:28	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.014	J	0.050	0.010	mg/L		01/20/15 08:00	01/20/15 18:45	1
Barium	0.61		0.50	0.050	mg/L		01/20/15 08:00	01/20/15 18:45	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/20/15 08:00	01/20/15 18:45	1
Cadmium	0.0025	J	0.0050	0.0020	mg/L		01/20/15 08:00	01/20/15 18:45	1
Chromium	<0.025		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 18:45	1
Cobalt	0.031		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 18:45	1
Copper	0.071		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 18:45	1
Iron	0.51		0.20	0.20	mg/L		01/20/15 08:00	01/20/15 18:45	1
Lead	0.019		0.0075	0.0075	mg/L		01/20/15 08:00	01/20/15 18:45	1
Manganese	12		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 18:45	1
Nickel	0.011	J	0.025	0.010	mg/L		01/20/15 08:00	01/20/15 18:45	1
Selenium	<0.050		0.050	0.020	mg/L		01/20/15 08:00	01/20/15 18:45	1
Silver	<0.025		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 18:45	1
Zinc	0.20		0.10	0.020	mg/L		01/20/15 08:00	01/20/15 18:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.027	J	0.050	0.010	mg/L		01/20/15 14:30	01/22/15 04:22	1
Barium	0.24	J	0.50	0.050	mg/L		01/20/15 14:30	01/22/15 04:22	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/20/15 14:30	01/22/15 04:22	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/20/15 14:30	01/22/15 04:22	1
Chromium	0.058		0.025	0.010	mg/L		01/20/15 14:30	01/22/15 04:22	1
Cobalt	0.026		0.025	0.010	mg/L		01/20/15 14:30	01/22/15 04:22	1
Copper	0.12		0.025	0.010	mg/L		01/20/15 14:30	01/22/15 04:22	1
Iron	56		0.20	0.20	mg/L		01/20/15 14:30	01/22/15 04:22	1
Lead	0.12		0.0075	0.0075	mg/L		01/20/15 14:30	01/22/15 04:22	1
Manganese	0.69		0.025	0.010	mg/L		01/20/15 14:30	01/22/15 04:22	1
Nickel	0.057		0.025	0.010	mg/L		01/20/15 14:30	01/22/15 04:22	1
Selenium	<0.050		0.050	0.020	mg/L		01/20/15 14:30	01/22/15 04:22	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90937-1

Client Sample ID: ROW-11(0-3)-011615

Lab Sample ID: 500-90937-5

Date Collected: 01/16/15 13:35

Matrix: Solid

Date Received: 01/16/15 16:00

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		01/20/15 14:30	01/22/15 04:22	1
Zinc	0.25		0.10	0.020	mg/L		01/20/15 14:30	01/22/15 04:22	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.43	J B	1.2	0.24	mg/Kg	☼	01/19/15 16:20	01/21/15 00:26	1
Arsenic	6.1		0.58	0.27	mg/Kg	☼	01/19/15 16:20	01/21/15 00:26	1
Barium	77		0.58	0.11	mg/Kg	☼	01/19/15 16:20	01/21/15 00:26	1
Beryllium	0.59		0.23	0.050	mg/Kg	☼	01/19/15 16:20	01/21/15 00:26	1
Cadmium	0.29		0.12	0.034	mg/Kg	☼	01/19/15 16:20	01/21/15 16:21	1
Calcium	24000		12	3.7	mg/Kg	☼	01/19/15 16:20	01/21/15 00:26	1
Chromium	15		0.58	0.10	mg/Kg	☼	01/19/15 16:20	01/21/15 00:26	1
Cobalt	9.1		0.29	0.066	mg/Kg	☼	01/19/15 16:20	01/21/15 00:26	1
Copper	19		0.58	0.13	mg/Kg	☼	01/19/15 16:20	01/21/15 00:26	1
Iron	16000		12	4.5	mg/Kg	☼	01/19/15 16:20	01/21/15 00:26	1
Lead	49		0.29	0.14	mg/Kg	☼	01/19/15 16:20	01/21/15 00:26	1
Magnesium	14000		5.8	2.4	mg/Kg	☼	01/19/15 16:20	01/21/15 00:26	1
Manganese	590		0.58	0.12	mg/Kg	☼	01/19/15 16:20	01/21/15 00:26	1
Nickel	18		0.58	0.16	mg/Kg	☼	01/19/15 16:20	01/21/15 00:26	1
Potassium	1900		29	4.7	mg/Kg	☼	01/19/15 16:20	01/21/15 00:26	1
Selenium	<0.58		0.58	0.29	mg/Kg	☼	01/19/15 16:20	01/21/15 00:26	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	01/19/15 16:20	01/21/15 00:26	1
Sodium	1000		58	7.7	mg/Kg	☼	01/19/15 16:20	01/21/15 00:26	1
Thallium	0.72		0.58	0.29	mg/Kg	☼	01/19/15 16:20	01/21/15 00:26	1
Vanadium	20		0.29	0.085	mg/Kg	☼	01/19/15 16:20	01/21/15 00:26	1
Zinc	110	B	1.2	0.37	mg/Kg	☼	01/19/15 16:20	01/21/15 00:26	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		01/21/15 11:30	01/22/15 08:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		01/21/15 11:30	01/22/15 11:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	96		19	6.7	ug/Kg	☼	01/19/15 14:30	01/20/15 08:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.76		0.200	0.200	SU			01/21/15 14:14	1

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90937-1

Client Sample ID: ROW-10(0-3)-011615

Lab Sample ID: 500-90937-6

Date Collected: 01/16/15 13:55

Matrix: Solid

Date Received: 01/16/15 16:00

Percent Solids: 84.6

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	36		5.9	2.6	ug/Kg	☼		01/20/15 10:57	1
Benzene	<5.9		5.9	0.81	ug/Kg	☼		01/20/15 10:57	1
Bromodichloromethane	<5.9		5.9	1.0	ug/Kg	☼		01/20/15 10:57	1
Bromoform	<5.9		5.9	1.4	ug/Kg	☼		01/20/15 10:57	1
Bromomethane	<5.9		5.9	1.8	ug/Kg	☼		01/20/15 10:57	1
Carbon disulfide	<5.9		5.9	0.88	ug/Kg	☼		01/20/15 10:57	1
Carbon tetrachloride	<5.9		5.9	1.1	ug/Kg	☼		01/20/15 10:57	1
Chlorobenzene	<5.9		5.9	0.60	ug/Kg	☼		01/20/15 10:57	1
Chloroethane	<5.9		5.9	1.6	ug/Kg	☼		01/20/15 10:57	1
Chloroform	<5.9		5.9	0.68	ug/Kg	☼		01/20/15 10:57	1
Chloromethane	<5.9		5.9	1.2	ug/Kg	☼		01/20/15 10:57	1
cis-1,2-Dichloroethene	<5.9		5.9	0.84	ug/Kg	☼		01/20/15 10:57	1
cis-1,3-Dichloropropene	<5.9		5.9	0.78	ug/Kg	☼		01/20/15 10:57	1
Dibromochloromethane	<5.9		5.9	1.0	ug/Kg	☼		01/20/15 10:57	1
1,1-Dichloroethane	<5.9		5.9	0.93	ug/Kg	☼		01/20/15 10:57	1
1,2-Dichloroethane	<5.9		5.9	0.88	ug/Kg	☼		01/20/15 10:57	1
1,1-Dichloroethene	<5.9		5.9	0.95	ug/Kg	☼		01/20/15 10:57	1
1,2-Dichloropropane	<5.9		5.9	0.90	ug/Kg	☼		01/20/15 10:57	1
1,3-Dichloropropene, Total	<5.9		5.9	0.78	ug/Kg	☼		01/20/15 10:57	1
Ethylbenzene	<5.9		5.9	1.2	ug/Kg	☼		01/20/15 10:57	1
2-Hexanone	<5.9		5.9	1.7	ug/Kg	☼		01/20/15 10:57	1
Methylene Chloride	<5.9		5.9	1.6	ug/Kg	☼		01/20/15 10:57	1
Methyl Ethyl Ketone	<5.9		5.9	2.1	ug/Kg	☼		01/20/15 10:57	1
methyl isobutyl ketone	<5.9		5.9	1.5	ug/Kg	☼		01/20/15 10:57	1
Methyl tert-butyl ether	<5.9		5.9	0.98	ug/Kg	☼		01/20/15 10:57	1
Styrene	<5.9		5.9	0.78	ug/Kg	☼		01/20/15 10:57	1
1,1,2,2-Tetrachloroethane	<5.9		5.9	1.2	ug/Kg	☼		01/20/15 10:57	1
Tetrachloroethene	<5.9		5.9	0.90	ug/Kg	☼		01/20/15 10:57	1
Toluene	<5.9		5.9	0.83	ug/Kg	☼		01/20/15 10:57	1
trans-1,2-Dichloroethene	<5.9		5.9	0.81	ug/Kg	☼		01/20/15 10:57	1
trans-1,3-Dichloropropene	<5.9		5.9	1.1	ug/Kg	☼		01/20/15 10:57	1
1,1,1-Trichloroethane	<5.9		5.9	0.88	ug/Kg	☼		01/20/15 10:57	1
1,1,2-Trichloroethane	<5.9		5.9	0.81	ug/Kg	☼		01/20/15 10:57	1
Trichloroethene	<5.9		5.9	0.97	ug/Kg	☼		01/20/15 10:57	1
Vinyl chloride	<5.9		5.9	1.2	ug/Kg	☼		01/20/15 10:57	1
Xylenes, Total	<12		12	0.54	ug/Kg	☼		01/20/15 10:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122		01/20/15 10:57	1
Dibromofluoromethane	101		75 - 120		01/20/15 10:57	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134		01/20/15 10:57	1
Toluene-d8 (Surr)	97		75 - 122		01/20/15 10:57	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	☼	01/19/15 07:34	01/22/15 19:04	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	01/19/15 07:34	01/22/15 19:04	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	01/19/15 07:34	01/22/15 19:04	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	01/19/15 07:34	01/22/15 19:04	1
2,2'-oxybis[1-chloropropane]	<190		190	45	ug/Kg	☼	01/19/15 07:34	01/22/15 19:04	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90937-1

Client Sample ID: ROW-10(0-3)-011615

Lab Sample ID: 500-90937-6

Date Collected: 01/16/15 13:55

Matrix: Solid

Date Received: 01/16/15 16:00

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	88	ug/Kg	☼	01/19/15 07:34	01/22/15 19:04	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	01/19/15 07:34	01/22/15 19:04	1
2,4-Dichlorophenol	<380		380	91	ug/Kg	☼	01/19/15 07:34	01/22/15 19:04	1
2,4-Dimethylphenol	<380		380	150	ug/Kg	☼	01/19/15 07:34	01/22/15 19:04	1
2,4-Dinitrophenol	<780	*	780	680	ug/Kg	☼	01/19/15 07:34	01/22/15 19:04	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	01/19/15 07:34	01/22/15 19:04	1
2,6-Dinitrotoluene	<190		190	76	ug/Kg	☼	01/19/15 07:34	01/22/15 19:04	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	01/19/15 07:34	01/22/15 19:04	1
2-Chlorophenol	<190		190	66	ug/Kg	☼	01/19/15 07:34	01/22/15 19:04	1
2-Methylnaphthalene	<38		38	7.1	ug/Kg	☼	01/19/15 07:34	01/22/15 19:04	1
2-Methylphenol	<190		190	62	ug/Kg	☼	01/19/15 07:34	01/22/15 19:04	1
2-Nitroaniline	<190		190	52	ug/Kg	☼	01/19/15 07:34	01/22/15 19:04	1
2-Nitrophenol	<380		380	91	ug/Kg	☼	01/19/15 07:34	01/22/15 19:04	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	☼	01/19/15 07:34	01/22/15 19:04	1
3,3'-Dichlorobenzidine	<190		190	54	ug/Kg	☼	01/19/15 07:34	01/22/15 19:04	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	01/19/15 07:34	01/22/15 19:04	1
4,6-Dinitro-2-methylphenol	<380	*	380	310	ug/Kg	☼	01/19/15 07:34	01/22/15 19:04	1
4-Bromophenyl phenyl ether	<190		190	51	ug/Kg	☼	01/19/15 07:34	01/22/15 19:04	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	01/19/15 07:34	01/22/15 19:04	1
4-Chloroaniline	<780		780	180	ug/Kg	☼	01/19/15 07:34	01/22/15 19:04	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	01/19/15 07:34	01/22/15 19:04	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	01/19/15 07:34	01/22/15 19:04	1
4-Nitrophenol	<780		780	370	ug/Kg	☼	01/19/15 07:34	01/22/15 19:04	1
Acenaphthene	<38		38	6.9	ug/Kg	☼	01/19/15 07:34	01/22/15 19:04	1
Acenaphthylene	<38		38	5.1	ug/Kg	☼	01/19/15 07:34	01/22/15 19:04	1
Anthracene	9.0	J	38	6.4	ug/Kg	☼	01/19/15 07:34	01/22/15 19:04	1
Benzo[a]anthracene	33	J	38	5.2	ug/Kg	☼	01/19/15 07:34	01/22/15 19:04	1
Benzo[a]pyrene	34	J	38	7.4	ug/Kg	☼	01/19/15 07:34	01/22/15 19:04	1
Benzo[b]fluoranthene	50		38	8.3	ug/Kg	☼	01/19/15 07:34	01/22/15 19:04	1
Benzo[g,h,i]perylene	38		38	12	ug/Kg	☼	01/19/15 07:34	01/22/15 19:04	1
Benzo[k]fluoranthene	20	J	38	11	ug/Kg	☼	01/19/15 07:34	01/22/15 19:04	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	01/19/15 07:34	01/22/15 19:04	1
Bis(2-chloroethyl)ether	<190		190	58	ug/Kg	☼	01/19/15 07:34	01/22/15 19:04	1
Bis(2-ethylhexyl) phthalate	<190		190	70	ug/Kg	☼	01/19/15 07:34	01/22/15 19:04	1
Butyl benzyl phthalate	<190		190	73	ug/Kg	☼	01/19/15 07:34	01/22/15 19:04	1
Carbazole	<190		190	99	ug/Kg	☼	01/19/15 07:34	01/22/15 19:04	1
Chrysene	42		38	10	ug/Kg	☼	01/19/15 07:34	01/22/15 19:04	1
Dibenz(a,h)anthracene	8.3	J	38	7.4	ug/Kg	☼	01/19/15 07:34	01/22/15 19:04	1
Dibenzofuran	<190		190	45	ug/Kg	☼	01/19/15 07:34	01/22/15 19:04	1
Diethyl phthalate	<190		190	65	ug/Kg	☼	01/19/15 07:34	01/22/15 19:04	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	01/19/15 07:34	01/22/15 19:04	1
Di-n-butyl phthalate	<190		190	59	ug/Kg	☼	01/19/15 07:34	01/22/15 19:04	1
Di-n-octyl phthalate	<190		190	63	ug/Kg	☼	01/19/15 07:34	01/22/15 19:04	1
Fluoranthene	59		38	7.1	ug/Kg	☼	01/19/15 07:34	01/22/15 19:04	1
Fluorene	<38		38	5.4	ug/Kg	☼	01/19/15 07:34	01/22/15 19:04	1
Hexachlorobenzene	<78		78	8.9	ug/Kg	☼	01/19/15 07:34	01/22/15 19:04	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	01/19/15 07:34	01/22/15 19:04	1
Hexachlorocyclopentadiene	<780		780	220	ug/Kg	☼	01/19/15 07:34	01/22/15 19:04	1
Hexachloroethane	<190		190	58	ug/Kg	☼	01/19/15 07:34	01/22/15 19:04	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90937-1

Client Sample ID: ROW-10(0-3)-011615

Lab Sample ID: 500-90937-6

Date Collected: 01/16/15 13:55

Matrix: Solid

Date Received: 01/16/15 16:00

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	10	ug/Kg	☼	01/19/15 07:34	01/22/15 19:04	1
Isophorone	<190		190	43	ug/Kg	☼	01/19/15 07:34	01/22/15 19:04	1
Naphthalene	<38		38	5.9	ug/Kg	☼	01/19/15 07:34	01/22/15 19:04	1
Nitrobenzene	<38		38	9.6	ug/Kg	☼	01/19/15 07:34	01/22/15 19:04	1
N-Nitrosodi-n-propylamine	<190		190	47	ug/Kg	☼	01/19/15 07:34	01/22/15 19:04	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	01/19/15 07:34	01/22/15 19:04	1
Pentachlorophenol	<780		780	620	ug/Kg	☼	01/19/15 07:34	01/22/15 19:04	1
Phenanthrene	43		38	5.4	ug/Kg	☼	01/19/15 07:34	01/22/15 19:04	1
Phenol	<190		190	85	ug/Kg	☼	01/19/15 07:34	01/22/15 19:04	1
Pyrene	62		38	7.6	ug/Kg	☼	01/19/15 07:34	01/22/15 19:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	50		35 - 137				01/19/15 07:34	01/22/15 19:04	1
2-Fluorobiphenyl	52		25 - 119				01/19/15 07:34	01/22/15 19:04	1
2-Fluorophenol	46		25 - 110				01/19/15 07:34	01/22/15 19:04	1
Nitrobenzene-d5	40		25 - 115				01/19/15 07:34	01/22/15 19:04	1
Phenol-d5	52		31 - 110				01/19/15 07:34	01/22/15 19:04	1
Terphenyl-d14	69		36 - 134				01/19/15 07:34	01/22/15 19:04	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/20/15 08:00	01/20/15 18:50	1
Barium	0.54		0.50	0.050	mg/L		01/20/15 08:00	01/20/15 18:50	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/20/15 08:00	01/20/15 18:50	1
Cadmium	0.0026	J	0.0050	0.0020	mg/L		01/20/15 08:00	01/20/15 18:50	1
Chromium	<0.025		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 18:50	1
Cobalt	0.050		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 18:50	1
Copper	0.010	J	0.025	0.010	mg/L		01/20/15 08:00	01/20/15 18:50	1
Iron	1.2		0.20	0.20	mg/L		01/20/15 08:00	01/20/15 18:50	1
Lead	0.023		0.0075	0.0075	mg/L		01/20/15 08:00	01/20/15 18:50	1
Manganese	13		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 18:50	1
Nickel	0.020	J	0.025	0.010	mg/L		01/20/15 08:00	01/20/15 18:50	1
Selenium	<0.050		0.050	0.020	mg/L		01/20/15 08:00	01/20/15 18:50	1
Silver	<0.025		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 18:50	1
Zinc	0.097	J	0.10	0.020	mg/L		01/20/15 08:00	01/20/15 18:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.028	J	0.050	0.010	mg/L		01/20/15 14:30	01/22/15 04:28	1
Barium	0.38	J	0.50	0.050	mg/L		01/20/15 14:30	01/22/15 04:28	1
Beryllium	0.0040		0.0040	0.0040	mg/L		01/20/15 14:30	01/22/15 04:28	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/20/15 14:30	01/22/15 04:28	1
Chromium	0.096		0.025	0.010	mg/L		01/20/15 14:30	01/22/15 04:28	1
Cobalt	0.035		0.025	0.010	mg/L		01/20/15 14:30	01/22/15 04:28	1
Copper	0.15		0.025	0.010	mg/L		01/20/15 14:30	01/22/15 04:28	1
Iron	88		0.20	0.20	mg/L		01/20/15 14:30	01/22/15 04:28	1
Lead	0.15		0.0075	0.0075	mg/L		01/20/15 14:30	01/22/15 04:28	1
Manganese	1.1		0.025	0.010	mg/L		01/20/15 14:30	01/22/15 04:28	1
Nickel	0.084		0.025	0.010	mg/L		01/20/15 14:30	01/22/15 04:28	1
Selenium	<0.050		0.050	0.020	mg/L		01/20/15 14:30	01/22/15 04:28	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90937-1

Client Sample ID: ROW-10(0-3)-011615

Lab Sample ID: 500-90937-6

Date Collected: 01/16/15 13:55

Matrix: Solid

Date Received: 01/16/15 16:00

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		01/20/15 14:30	01/22/15 04:28	1
Zinc	0.29		0.10	0.020	mg/L		01/20/15 14:30	01/22/15 04:28	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.42	J B	1.2	0.24	mg/Kg	☼	01/19/15 16:20	01/21/15 00:32	1
Arsenic	6.0		0.59	0.27	mg/Kg	☼	01/19/15 16:20	01/21/15 00:32	1
Barium	69		0.59	0.11	mg/Kg	☼	01/19/15 16:20	01/21/15 00:32	1
Beryllium	0.64		0.23	0.051	mg/Kg	☼	01/19/15 16:20	01/21/15 00:32	1
Cadmium	0.13		0.12	0.034	mg/Kg	☼	01/19/15 16:20	01/21/15 16:34	1
Calcium	15000		12	3.8	mg/Kg	☼	01/19/15 16:20	01/21/15 00:32	1
Chromium	17		0.59	0.10	mg/Kg	☼	01/19/15 16:20	01/21/15 00:32	1
Cobalt	10		0.29	0.066	mg/Kg	☼	01/19/15 16:20	01/21/15 00:32	1
Copper	19		0.59	0.13	mg/Kg	☼	01/19/15 16:20	01/21/15 00:32	1
Iron	17000		12	4.5	mg/Kg	☼	01/19/15 16:20	01/21/15 00:32	1
Lead	61		0.29	0.15	mg/Kg	☼	01/19/15 16:20	01/21/15 00:32	1
Magnesium	9500		5.9	2.4	mg/Kg	☼	01/19/15 16:20	01/21/15 00:32	1
Manganese	430		0.59	0.12	mg/Kg	☼	01/19/15 16:20	01/21/15 00:32	1
Nickel	18		0.59	0.16	mg/Kg	☼	01/19/15 16:20	01/21/15 00:32	1
Potassium	1800		29	4.8	mg/Kg	☼	01/19/15 16:20	01/21/15 00:32	1
Selenium	0.40	J	0.59	0.29	mg/Kg	☼	01/19/15 16:20	01/21/15 00:32	1
Silver	<0.29		0.29	0.069	mg/Kg	☼	01/19/15 16:20	01/21/15 00:32	1
Sodium	1400		59	7.7	mg/Kg	☼	01/19/15 16:20	01/21/15 00:32	1
Thallium	0.69		0.59	0.29	mg/Kg	☼	01/19/15 16:20	01/21/15 00:32	1
Vanadium	23		0.29	0.086	mg/Kg	☼	01/19/15 16:20	01/21/15 00:32	1
Zinc	67	B	1.2	0.37	mg/Kg	☼	01/19/15 16:20	01/21/15 00:32	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		01/21/15 11:30	01/22/15 08:54	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		01/21/15 11:30	01/22/15 11:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	36		18	6.2	ug/Kg	☼	01/19/15 14:30	01/20/15 08:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.54		0.200	0.200	SU			01/21/15 14:23	1

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90937-1

Client Sample ID: ROW-9(0-3)-011615

Lab Sample ID: 500-90937-7

Date Collected: 01/16/15 13:45

Matrix: Solid

Date Received: 01/16/15 16:00

Percent Solids: 82.7

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	56		6.0	2.6	ug/Kg	☼		01/20/15 11:22	1
Benzene	<6.0		6.0	0.83	ug/Kg	☼		01/20/15 11:22	1
Bromodichloromethane	<6.0		6.0	1.0	ug/Kg	☼		01/20/15 11:22	1
Bromoform	<6.0		6.0	1.4	ug/Kg	☼		01/20/15 11:22	1
Bromomethane	<6.0		6.0	1.8	ug/Kg	☼		01/20/15 11:22	1
Carbon disulfide	<6.0		6.0	0.90	ug/Kg	☼		01/20/15 11:22	1
Carbon tetrachloride	<6.0		6.0	1.1	ug/Kg	☼		01/20/15 11:22	1
Chlorobenzene	<6.0		6.0	0.61	ug/Kg	☼		01/20/15 11:22	1
Chloroethane	<6.0		6.0	1.6	ug/Kg	☼		01/20/15 11:22	1
Chloroform	<6.0		6.0	0.70	ug/Kg	☼		01/20/15 11:22	1
Chloromethane	<6.0		6.0	1.3	ug/Kg	☼		01/20/15 11:22	1
cis-1,2-Dichloroethene	<6.0		6.0	0.86	ug/Kg	☼		01/20/15 11:22	1
cis-1,3-Dichloropropene	<6.0		6.0	0.79	ug/Kg	☼		01/20/15 11:22	1
Dibromochloromethane	<6.0		6.0	1.1	ug/Kg	☼		01/20/15 11:22	1
1,1-Dichloroethane	<6.0		6.0	0.96	ug/Kg	☼		01/20/15 11:22	1
1,2-Dichloroethane	<6.0		6.0	0.90	ug/Kg	☼		01/20/15 11:22	1
1,1-Dichloroethene	<6.0		6.0	0.98	ug/Kg	☼		01/20/15 11:22	1
1,2-Dichloropropane	<6.0		6.0	0.92	ug/Kg	☼		01/20/15 11:22	1
1,3-Dichloropropene, Total	<6.0		6.0	0.79	ug/Kg	☼		01/20/15 11:22	1
Ethylbenzene	<6.0		6.0	1.2	ug/Kg	☼		01/20/15 11:22	1
2-Hexanone	<6.0		6.0	1.7	ug/Kg	☼		01/20/15 11:22	1
Methylene Chloride	<6.0		6.0	1.6	ug/Kg	☼		01/20/15 11:22	1
Methyl Ethyl Ketone	<6.0		6.0	2.2	ug/Kg	☼		01/20/15 11:22	1
methyl isobutyl ketone	<6.0		6.0	1.6	ug/Kg	☼		01/20/15 11:22	1
Methyl tert-butyl ether	<6.0		6.0	1.0	ug/Kg	☼		01/20/15 11:22	1
Styrene	<6.0		6.0	0.79	ug/Kg	☼		01/20/15 11:22	1
1,1,1,2-Tetrachloroethane	<6.0		6.0	1.2	ug/Kg	☼		01/20/15 11:22	1
Tetrachloroethene	<6.0		6.0	0.92	ug/Kg	☼		01/20/15 11:22	1
Toluene	<6.0		6.0	0.85	ug/Kg	☼		01/20/15 11:22	1
trans-1,2-Dichloroethene	<6.0		6.0	0.83	ug/Kg	☼		01/20/15 11:22	1
trans-1,3-Dichloropropene	<6.0		6.0	1.1	ug/Kg	☼		01/20/15 11:22	1
1,1,1-Trichloroethane	<6.0		6.0	0.90	ug/Kg	☼		01/20/15 11:22	1
1,1,2-Trichloroethane	<6.0		6.0	0.82	ug/Kg	☼		01/20/15 11:22	1
Trichloroethene	<6.0		6.0	1.0	ug/Kg	☼		01/20/15 11:22	1
Vinyl chloride	<6.0		6.0	1.3	ug/Kg	☼		01/20/15 11:22	1
Xylenes, Total	<12		12	0.55	ug/Kg	☼		01/20/15 11:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122		01/20/15 11:22	1
Dibromofluoromethane	101		75 - 120		01/20/15 11:22	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134		01/20/15 11:22	1
Toluene-d8 (Surr)	96		75 - 122		01/20/15 11:22	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	☼	01/19/15 07:34	01/22/15 19:27	1
1,2-Dichlorobenzene	<200		200	47	ug/Kg	☼	01/19/15 07:34	01/22/15 19:27	1
1,3-Dichlorobenzene	<200		200	44	ug/Kg	☼	01/19/15 07:34	01/22/15 19:27	1
1,4-Dichlorobenzene	<200		200	50	ug/Kg	☼	01/19/15 07:34	01/22/15 19:27	1
2,2'-oxybis[1-chloropropane]	<200		200	45	ug/Kg	☼	01/19/15 07:34	01/22/15 19:27	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90937-1

Client Sample ID: ROW-9(0-3)-011615

Lab Sample ID: 500-90937-7

Date Collected: 01/16/15 13:45

Matrix: Solid

Date Received: 01/16/15 16:00

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	☼	01/19/15 07:34	01/22/15 19:27	1
2,4,6-Trichlorophenol	<390		390	130	ug/Kg	☼	01/19/15 07:34	01/22/15 19:27	1
2,4-Dichlorophenol	<390		390	93	ug/Kg	☼	01/19/15 07:34	01/22/15 19:27	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	01/19/15 07:34	01/22/15 19:27	1
2,4-Dinitrophenol	<790	*	790	690	ug/Kg	☼	01/19/15 07:34	01/22/15 19:27	1
2,4-Dinitrotoluene	<200		200	62	ug/Kg	☼	01/19/15 07:34	01/22/15 19:27	1
2,6-Dinitrotoluene	<200		200	77	ug/Kg	☼	01/19/15 07:34	01/22/15 19:27	1
2-Chloronaphthalene	<200		200	43	ug/Kg	☼	01/19/15 07:34	01/22/15 19:27	1
2-Chlorophenol	<200		200	67	ug/Kg	☼	01/19/15 07:34	01/22/15 19:27	1
2-Methylnaphthalene	<39		39	7.2	ug/Kg	☼	01/19/15 07:34	01/22/15 19:27	1
2-Methylphenol	<200		200	63	ug/Kg	☼	01/19/15 07:34	01/22/15 19:27	1
2-Nitroaniline	<200		200	53	ug/Kg	☼	01/19/15 07:34	01/22/15 19:27	1
2-Nitrophenol	<390		390	92	ug/Kg	☼	01/19/15 07:34	01/22/15 19:27	1
3 & 4 Methylphenol	<200		200	65	ug/Kg	☼	01/19/15 07:34	01/22/15 19:27	1
3,3'-Dichlorobenzidine	<200		200	55	ug/Kg	☼	01/19/15 07:34	01/22/15 19:27	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	01/19/15 07:34	01/22/15 19:27	1
4,6-Dinitro-2-methylphenol	<390	*	390	310	ug/Kg	☼	01/19/15 07:34	01/22/15 19:27	1
4-Bromophenyl phenyl ether	<200		200	52	ug/Kg	☼	01/19/15 07:34	01/22/15 19:27	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	01/19/15 07:34	01/22/15 19:27	1
4-Chloroaniline	<790		790	180	ug/Kg	☼	01/19/15 07:34	01/22/15 19:27	1
4-Chlorophenyl phenyl ether	<200		200	46	ug/Kg	☼	01/19/15 07:34	01/22/15 19:27	1
4-Nitroaniline	<390		390	160	ug/Kg	☼	01/19/15 07:34	01/22/15 19:27	1
4-Nitrophenol	<790		790	370	ug/Kg	☼	01/19/15 07:34	01/22/15 19:27	1
Acenaphthene	<39		39	7.0	ug/Kg	☼	01/19/15 07:34	01/22/15 19:27	1
Acenaphthylene	<39		39	5.2	ug/Kg	☼	01/19/15 07:34	01/22/15 19:27	1
Anthracene	<39		39	6.5	ug/Kg	☼	01/19/15 07:34	01/22/15 19:27	1
Benzo[a]anthracene	12	J	39	5.3	ug/Kg	☼	01/19/15 07:34	01/22/15 19:27	1
Benzo[a]pyrene	11	J	39	7.6	ug/Kg	☼	01/19/15 07:34	01/22/15 19:27	1
Benzo[b]fluoranthene	17	J	39	8.4	ug/Kg	☼	01/19/15 07:34	01/22/15 19:27	1
Benzo[g,h,i]perylene	14	J	39	13	ug/Kg	☼	01/19/15 07:34	01/22/15 19:27	1
Benzo[k]fluoranthene	<39		39	12	ug/Kg	☼	01/19/15 07:34	01/22/15 19:27	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	☼	01/19/15 07:34	01/22/15 19:27	1
Bis(2-chloroethyl)ether	<200		200	59	ug/Kg	☼	01/19/15 07:34	01/22/15 19:27	1
Bis(2-ethylhexyl) phthalate	<200		200	71	ug/Kg	☼	01/19/15 07:34	01/22/15 19:27	1
Butyl benzyl phthalate	<200		200	74	ug/Kg	☼	01/19/15 07:34	01/22/15 19:27	1
Carbazole	<200		200	100	ug/Kg	☼	01/19/15 07:34	01/22/15 19:27	1
Chrysene	16	J	39	11	ug/Kg	☼	01/19/15 07:34	01/22/15 19:27	1
Dibenz(a,h)anthracene	<39		39	7.6	ug/Kg	☼	01/19/15 07:34	01/22/15 19:27	1
Dibenzofuran	<200		200	46	ug/Kg	☼	01/19/15 07:34	01/22/15 19:27	1
Diethyl phthalate	<200		200	66	ug/Kg	☼	01/19/15 07:34	01/22/15 19:27	1
Dimethyl phthalate	<200		200	51	ug/Kg	☼	01/19/15 07:34	01/22/15 19:27	1
Di-n-butyl phthalate	<200		200	60	ug/Kg	☼	01/19/15 07:34	01/22/15 19:27	1
Di-n-octyl phthalate	<200		200	64	ug/Kg	☼	01/19/15 07:34	01/22/15 19:27	1
Fluoranthene	23	J	39	7.3	ug/Kg	☼	01/19/15 07:34	01/22/15 19:27	1
Fluorene	<39		39	5.5	ug/Kg	☼	01/19/15 07:34	01/22/15 19:27	1
Hexachlorobenzene	<79		79	9.1	ug/Kg	☼	01/19/15 07:34	01/22/15 19:27	1
Hexachlorobutadiene	<200		200	61	ug/Kg	☼	01/19/15 07:34	01/22/15 19:27	1
Hexachlorocyclopentadiene	<790		790	220	ug/Kg	☼	01/19/15 07:34	01/22/15 19:27	1
Hexachloroethane	<200		200	59	ug/Kg	☼	01/19/15 07:34	01/22/15 19:27	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90937-1

Client Sample ID: ROW-9(0-3)-011615

Lab Sample ID: 500-90937-7

Date Collected: 01/16/15 13:45

Matrix: Solid

Date Received: 01/16/15 16:00

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	<39		39	10	ug/Kg	☼	01/19/15 07:34	01/22/15 19:27	1
Isophorone	<200		200	44	ug/Kg	☼	01/19/15 07:34	01/22/15 19:27	1
Naphthalene	<39		39	6.0	ug/Kg	☼	01/19/15 07:34	01/22/15 19:27	1
Nitrobenzene	<39		39	9.8	ug/Kg	☼	01/19/15 07:34	01/22/15 19:27	1
N-Nitrosodi-n-propylamine	<200		200	48	ug/Kg	☼	01/19/15 07:34	01/22/15 19:27	1
N-Nitrosodiphenylamine	<200		200	46	ug/Kg	☼	01/19/15 07:34	01/22/15 19:27	1
Pentachlorophenol	<790		790	630	ug/Kg	☼	01/19/15 07:34	01/22/15 19:27	1
Phenanthrene	14	J	39	5.5	ug/Kg	☼	01/19/15 07:34	01/22/15 19:27	1
Phenol	<200		200	87	ug/Kg	☼	01/19/15 07:34	01/22/15 19:27	1
Pyrene	22	J	39	7.8	ug/Kg	☼	01/19/15 07:34	01/22/15 19:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	41		35 - 137				01/19/15 07:34	01/22/15 19:27	1
2-Fluorobiphenyl	49		25 - 119				01/19/15 07:34	01/22/15 19:27	1
2-Fluorophenol	46		25 - 110				01/19/15 07:34	01/22/15 19:27	1
Nitrobenzene-d5	41		25 - 115				01/19/15 07:34	01/22/15 19:27	1
Phenol-d5	48		31 - 110				01/19/15 07:34	01/22/15 19:27	1
Terphenyl-d14	67		36 - 134				01/19/15 07:34	01/22/15 19:27	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.011	J	0.050	0.010	mg/L		01/20/15 08:00	01/20/15 18:55	1
Barium	0.56		0.50	0.050	mg/L		01/20/15 08:00	01/20/15 18:55	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/20/15 08:00	01/20/15 18:55	1
Cadmium	0.0021	J	0.0050	0.0020	mg/L		01/20/15 08:00	01/20/15 18:55	1
Chromium	<0.025		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 18:55	1
Cobalt	0.043		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 18:55	1
Copper	0.091		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 18:55	1
Iron	1.7		0.20	0.20	mg/L		01/20/15 08:00	01/20/15 18:55	1
Lead	0.025		0.0075	0.0075	mg/L		01/20/15 08:00	01/20/15 18:55	1
Manganese	12		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 18:55	1
Nickel	0.024	J	0.025	0.010	mg/L		01/20/15 08:00	01/20/15 18:55	1
Selenium	<0.050		0.050	0.020	mg/L		01/20/15 08:00	01/20/15 18:55	1
Silver	<0.025		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 18:55	1
Zinc	0.10		0.10	0.020	mg/L		01/20/15 08:00	01/20/15 18:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.052		0.050	0.010	mg/L		01/20/15 14:30	01/22/15 04:34	1
Barium	0.63		0.50	0.050	mg/L		01/20/15 14:30	01/22/15 04:34	1
Beryllium	0.0070		0.0040	0.0040	mg/L		01/20/15 14:30	01/22/15 04:34	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/20/15 14:30	01/22/15 04:34	1
Chromium	0.17		0.025	0.010	mg/L		01/20/15 14:30	01/22/15 04:34	1
Cobalt	0.060		0.025	0.010	mg/L		01/20/15 14:30	01/22/15 04:34	1
Copper	0.21		0.025	0.010	mg/L		01/20/15 14:30	01/22/15 04:34	1
Iron	160		0.20	0.20	mg/L		01/20/15 14:30	01/22/15 04:34	1
Lead	0.21		0.0075	0.0075	mg/L		01/20/15 14:30	01/22/15 04:34	1
Manganese	1.5		0.025	0.010	mg/L		01/20/15 14:30	01/22/15 04:34	1
Nickel	0.17		0.025	0.010	mg/L		01/20/15 14:30	01/22/15 04:34	1
Selenium	<0.050		0.050	0.020	mg/L		01/20/15 14:30	01/22/15 04:34	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90937-1

Client Sample ID: ROW-9(0-3)-011615

Lab Sample ID: 500-90937-7

Date Collected: 01/16/15 13:45

Matrix: Solid

Date Received: 01/16/15 16:00

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		01/20/15 14:30	01/22/15 04:34	1
Zinc	0.40		0.10	0.020	mg/L		01/20/15 14:30	01/22/15 04:34	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.51	J B	1.1	0.23	mg/Kg	☼	01/19/15 16:20	01/21/15 00:38	1
Arsenic	6.8		0.57	0.26	mg/Kg	☼	01/19/15 16:20	01/21/15 00:38	1
Barium	64		0.57	0.10	mg/Kg	☼	01/19/15 16:20	01/21/15 00:38	1
Beryllium	0.69		0.23	0.049	mg/Kg	☼	01/19/15 16:20	01/21/15 00:38	1
Cadmium	0.087	J	0.11	0.033	mg/Kg	☼	01/19/15 16:20	01/21/15 16:39	1
Calcium	26000		11	3.6	mg/Kg	☼	01/19/15 16:20	01/21/15 00:38	1
Chromium	18		0.57	0.097	mg/Kg	☼	01/19/15 16:20	01/21/15 00:38	1
Cobalt	11		0.28	0.064	mg/Kg	☼	01/19/15 16:20	01/21/15 00:38	1
Copper	19		0.57	0.12	mg/Kg	☼	01/19/15 16:20	01/21/15 00:38	1
Iron	19000		11	4.4	mg/Kg	☼	01/19/15 16:20	01/21/15 00:38	1
Lead	27		0.28	0.14	mg/Kg	☼	01/19/15 16:20	01/21/15 00:38	1
Magnesium	15000		5.7	2.3	mg/Kg	☼	01/19/15 16:20	01/21/15 00:38	1
Manganese	520		0.57	0.11	mg/Kg	☼	01/19/15 16:20	01/21/15 00:38	1
Nickel	22		0.57	0.15	mg/Kg	☼	01/19/15 16:20	01/21/15 00:38	1
Potassium	2400		28	4.6	mg/Kg	☼	01/19/15 16:20	01/21/15 00:38	1
Selenium	<0.57		0.57	0.28	mg/Kg	☼	01/19/15 16:20	01/21/15 00:38	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	01/19/15 16:20	01/21/15 00:38	1
Sodium	1600		57	7.5	mg/Kg	☼	01/19/15 16:20	01/21/15 00:38	1
Thallium	0.76		0.57	0.28	mg/Kg	☼	01/19/15 16:20	01/21/15 00:38	1
Vanadium	24		0.28	0.083	mg/Kg	☼	01/19/15 16:20	01/21/15 00:38	1
Zinc	51	B	1.1	0.36	mg/Kg	☼	01/19/15 16:20	01/21/15 00:38	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		01/21/15 11:30	01/22/15 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		01/21/15 11:30	01/22/15 11:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	41		20	6.9	ug/Kg	☼	01/19/15 14:30	01/20/15 09:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.99		0.200	0.200	SU			01/21/15 14:31	1

Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90937-1

Qualifiers

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F3	Duplicate RPD exceeds the control limit
F1	MS and/or MSD Recovery exceeds the control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F2	MS/MSD RPD exceeds control limits

Glossary

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

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90937-1

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-15

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

Analysis Method	Prep Method	Matrix	Analyte
7470A	7470A	Solid	Mercury
8260B		Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

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

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

Chain of Custody Record

Lab Job #: 500-90937

Chain of Custody Number:

Page 3 of 3

Temperature °C of Cooler: 4.2

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 Project #		Matrix		Matrix						
Sampler		Lab RM		Matrix		Matrix		Matrix		Comments		
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	Matrix	Matrix	Matrix		Comments	
1		C61-1(0-3)-011615D	1/16/15	1230	2	S	VOCs	SVOCs	Total Metals	TCUP/SPLP Metals	PH	
2		V60-1(0-3)-011615		1245								
3		MC-1(0-3)-011615		1253								
4		ROW-12(0-3)-011615		1310								
5		ROW-11(0-3)-011615		1335								
6		ROW-10(0-3)-011615		1355								
7		ROW-9(0-3)-011615		1345								
<u>M. Straw</u> 1/16/15												

Turnaround Time Required (Business Days)

1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Standard 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>M. Straw</u> Company: <u>Weston</u> Date: <u>1/16/15</u> Time: <u>1420</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>1/16/15</u> Time: <u>1420</u>
Relinquished By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>1/16/15</u> Time: <u>1600</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>1/16/15</u> Time: <u>1600</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:



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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 346: US 41 from IL 21 to West Park Ave Office Phone Number, if available: _____

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

36100 block of US 41

City: Warren Township State: IL Zip Code: _____

County: Lake Township: _____

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

Latitude: 42.38738381 Longitude: -87.92207232

(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: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

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

Project Name: FAP 346: US 41 from IL 21 to West Park AveLatitude: 42.38738381 Longitude: -87.92207232Uncontaminated Site Certification**III. Basis for Certification and Attachments**

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

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

LOCATIONS FP-1, FP-2, FP-3, FP-5, FP-6, AND FP-7 WERE SAMPLED ADJACENT TO ISGS SITE No. 2668A-7. SEE FIGURE 3-1 AND TABLE 4-1 OF THE REVISED 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]:

TEST AMERICA ANALYTICAL REPORT - JOB ID: 500-90849-1 AND
TEST AMERICA ANALYTICAL REPORT - JOB ID: 500-90789-1.

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

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

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

Company Name: Illinois Department of TransportationStreet Address: 2300 South Dirksen ParkwayCity: Springfield State: IL Zip Code: 62764Phone: 217-785-4246Kurt T. Fischer P.G.

Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

2/9/15

Date:



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

Summary Table of ISGS Site No. 2668A-7
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 346: US Route 41 (Skokie Highway) from IL Route 21 to West Park Avenue
Gurnee, Park City, Waukegan, and North Chicago, Lake County, Illinois

Field Sample ID	FP-1(0-3)-011515	FP-2(0-3)-011515	FP-2(0-3)-011515D	FP-3(0-3)-011515	Soil Reference Concentrations ^A
Sample Date	1/15/2015	1/15/2015	1/15/2015	1/15/2015	
Location ID	FP-1	FP-2	FP-2	FP-3	
Depth	0 - 3	0 - 3	0 - 3	0 - 3	
ISGS Site Number	2668A-7	2668A-7	2668A-7	2668A-7	
Parameter					
Laboratory pH (s.u.)	8.73	8.11	8.16	8.19	<6.25,>9.0
VOCs (ug/kg)					
Acetone	18	11	ND	49	25000
Methyl ethyl ketone	ND	ND	ND	9.1	---
SVOCs (ug/kg)					
Benzo(a)anthracene	14 J	ND	ND	53	900 / 1100 / 1800
Benzo(a)pyrene	19 J	ND	ND	39	90 / 1300 / 2100
Benzo(b)fluoranthene	25 J	ND	11 J	62	900 / 1500 / 2100
Benzo(g,h,i)perylene	24 J	ND	ND	15 J	---
Benzo(k)fluoranthene	13 J	ND	ND	22 J	9000
Chrysene	25 J	ND	ND	51	88000
Dibenzo(a,h)anthracene	ND	ND	ND	7.7 J	90 / 200 / 420
Fluoranthene	20 J	ND	ND	100	3100000
Indeno(1,2,3-cd)pyrene	14 J	ND	ND	16 J	900 / 900 / 1600
Phenanthrene	8.5 J	ND	ND	38	---
Pyrene	30 J	ND	ND	75	2300000
Total Metals (mg/kg)					
Antimony, Total	0.43 J	ND	0.44 J	0.48 J	5
Arsenic, Total	6.6 J+	5.5 J+	5.6 J+	6.9 J+	11.3 / 13
Barium, Total	32	58	50	50	1500
Beryllium, Total	0.54	0.77	0.78	0.65	22
Cadmium, Total	0.52 J-	0.39 J-	0.37 J-	0.26 J-	5.2
Calcium, Total	90000 J	85000 J	76000 J	28000 J	---
Chromium, Total	15 J+	22 J+	22 J+	18 J+	21
Cobalt, Total	8 J-	11 J-	11 J-	8.1 J-	20
Copper, Total	28 B	23 B	22 B	19 B	2900
Iron, Total	18000 J	20000 J	19000 J	20000 J	15000 / 15900
Lead, Total	58 J	16 J	11 J	13 J	107
Magnesium, Total	39000 J+	35000 J+	33000 J+	20000 J+	325000
Manganese, Total	580 J	490 J	480 J	440 J	630 / 636
Mercury, Total	0.012 J	0.014 J	0.015 J	0.034 J+	0.89
Nickel, Total	20	27	27	19	100
Potassium, Total	2600 J+	4300 J+	4300 J+	2000 J+	---
Selenium, Total	ND	ND	ND	ND	1.3
Sodium, Total	800	1700	1600	1600	---
Thallium, Total	0.76 J-	0.86 J-	0.54 J	0.66 J-	2.6
Vanadium, Total	19	25	24	30	550
Zinc, Total	85 J	44 J	41 J	47 J	5100
TCLP Metals (mg/l)					
Barium, TCLP	0.3 J	0.3 J	0.27 J	0.34 J	2
Cadmium, TCLP	ND	ND	ND	ND	0.005
Cobalt, TCLP	ND	ND	ND	ND	1
Copper, TCLP	0.073	0.017 J	ND	ND	0.65
Iron, TCLP	ND	ND	ND	ND	5
Manganese, TCLP	2.2	0.79	0.74	10	0.15
Nickel, TCLP	0.011 J	ND	ND	ND	0.1
Zinc, TCLP	0.08 J	0.053 J	ND	0.02 J	5

Summary Table of ISGS Site No. 2668A-7
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 346: US Route 41 (Skokie Highway) from IL Route 21 to West Park Avenue
Gurnee, Park City, Waukegan, and North Chicago, Lake County, Illinois

Field Sample ID	FP-1(0-3)-011515	FP-2(0-3)-011515	FP-2(0-3)-011515D	FP-3(0-3)-011515	Soil Reference Concentrations ^A
Sample Date	1/15/2015	1/15/2015	1/15/2015	1/15/2015	
Location ID	FP-1	FP-2	FP-2	FP-3	
Depth	0 - 3	0 - 3	0 - 3	0 - 3	
ISGS Site Number	2668A-7	2668A-7	2668A-7	2668A-7	
Parameter					
SPLP Metals (mg/l)					
Arsenic, SPLP	0.046 J	0.03 J	0.043 J	0.082	0.05
Barium, SPLP	0.33 J	0.34 J	0.47 J	0.87	2
Beryllium, SPLP	0.0043	0.0047	0.0066	0.0093	0.004
Cadmium, SPLP	ND	ND	ND	ND	0.005
Chromium, SPLP	0.1	0.11	0.16	0.27	0.1
Cobalt, SPLP	0.044	0.03	0.045	0.09	1
Copper, SPLP	0.2	0.16	0.17	0.25	0.65
Iron, SPLP	100 J+	90 J+	130 J+	280 J+	5
Lead, SPLP	0.11	0.047	0.069	0.13	0.0075
Manganese, SPLP	0.92	0.66	0.99	3.3	0.15
Mercury, SPLP	ND	ND	ND	0.0002	0.002
Nickel, SPLP	0.13	0.12	0.17	0.25	0.1
Zinc, SPLP	0.37	0.24	0.31	0.65	5

Summary Table of ISGS Site No. 2668A-7
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 346: US Route 41 (Skokie Highway) from IL Route 21 to West Park Avenue
Gurnee, Park City, Waukegan, and North Chicago, Lake County, Illinois

Field Sample ID	FP-5(0-3)-011515	FP-6(0-3)-011415	FP-7(0-3)-011415	Soil Reference Concentrations ^A
Sample Date	1/15/2015	1/14/2015	1/14/2015	
Location ID	FP-5	FP-6	FP-7	
Depth	0 - 3	0 - 3	0 - 3	
ISGS Site Number	2668A-7	2668A-7	2668A-7	
Parameter				
Laboratory pH (s.u.)	7.98	7.97	8.64	<6.25,>9.0
VOCs (ug/kg)				
Acetone	10	28	ND	25000
Methyl ethyl ketone	ND	ND	ND	---
SVOCs (ug/kg)				
Benzo(a)anthracene	19 J	ND	ND	900 / 1100 / 1800
Benzo(a)pyrene	27 J	ND	ND	90 / 1300 / 2100
Benzo(b)fluoranthene	33 J	ND	ND	900 / 1500 / 2100
Benzo(g,h,i)perylene	25 J	ND	ND	---
Benzo(k)fluoranthene	22 J	ND	ND	9000
Chrysene	26 J	ND	ND	88000
Dibenzo(a,h)anthracene	17 J	ND	ND	90 / 200 / 420
Fluoranthene	27 J	ND	ND	3100000
Indeno(1,2,3-cd)pyrene	22 J	ND	ND	900 / 900 / 1600
Phenanthrene	12 J	ND	ND	---
Pyrene	26 J	ND	ND	2300000
Total Metals (mg/kg)				
Antimony, Total	0.45 J	1.2 R	1.1 R	5
Arsenic, Total	7.7 J+	6.8 J	5.7 J	11.3 / 13
Barium, Total	50	46 J	49 J	1500
Beryllium, Total	0.66	0.63 J-	0.61 J-	22
Cadmium, Total	0.4 J-	0.1 J	0.046 J	5.2
Calcium, Total	28000 J	35000 J	80000 J	---
Chromium, Total	18 J+	15	16	21
Cobalt, Total	9.6 J-	12	11	20
Copper, Total	24 B	23	21	2900
Iron, Total	21000 J	19000 J	16000 J	15000 / 15900
Lead, Total	20 J	23 J	20 J	107
Magnesium, Total	19000 J+	15000 J	32000 J	325000
Manganese, Total	710 J	580 J	600 J	630 / 636
Mercury, Total	0.024 J+	0.028	0.022	0.89
Nickel, Total	24	30	27	100
Potassium, Total	2200 J+	1400 J+	2200 J+	---
Selenium, Total	ND	0.42 J	0.43 J	1.3
Sodium, Total	1900	1400 J-	1900 J-	---
Thallium, Total	1.1 J-	ND	ND	2.6
Vanadium, Total	24	19	16	550
Zinc, Total	53 J	74	53	5100
TCLP Metals (mg/l)				
Barium, TCLP	0.23 J	0.4 J	0.38 J	2
Cadmium, TCLP	ND	0.0023 J	0.0021 J	0.005
Cobalt, TCLP	ND	0.019 J	ND	1
Copper, TCLP	ND	0.041	0.085	0.65
Iron, TCLP	ND	0.3	0.28	5
Manganese, TCLP	ND	14	3.6	0.15
Nickel, TCLP	ND	0.015 J	0.013 J	0.1
Zinc, TCLP	ND	0.045 J	0.063 J	5

Summary Table of ISGS Site No. 2668A-7
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 346: US Route 41 (Skokie Highway) from IL Route 21 to West Park Avenue
Gurnee, Park City, Waukegan, and North Chicago, Lake County, Illinois

Field Sample ID	FP-5(0-3)-011515	FP-6(0-3)-011415	FP-7(0-3)-011415	Soil Reference Concentrations ^A
Sample Date	1/15/2015	1/14/2015	1/14/2015	
Location ID	FP-5	FP-6	FP-7	
Depth	0 - 3	0 - 3	0 - 3	
ISGS Site Number	2668A-7	2668A-7	2668A-7	
Parameter				
SPLP Metals (mg/l)				
Arsenic, SPLP	0.056	0.063	0.074	0.05
Barium, SPLP	0.41 J	0.66	0.66	2
Beryllium, SPLP	0.0058	0.008 J	0.0084 J	0.004
Cadmium, SPLP	ND	0.002 J	ND	0.005
Chromium, SPLP	0.14	0.19 J	0.2 J	0.1
Cobalt, SPLP	0.044	0.083	0.074	1
Copper, SPLP	0.19	0.35	0.33	0.65
Iron, SPLP	150 J+	190 J+	220 J+	5
Lead, SPLP	0.095	0.11	0.13	0.0075
Manganese, SPLP	1.3	2	1.7	0.15
Mercury, SPLP	ND	ND	ND	0.002
Nickel, SPLP	0.16	0.26	0.27	0.1
Zinc, SPLP	0.46	0.71	0.81	5

Notes:

--- - not applicable or value not available.

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

B - Constituent detected in investigative and blank sample.

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

J+ - Estimated concentration, biased high.

J- - Estimated concentration, biased low.

R - Rejected; results rejected during validation.

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: 500-90789-1
Client Project/Site: IDOT - Lake County - WO 001

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

Attn: Mr. S. Babusukumar



Authorized for release by:
1/22/2015 3:50:34 PM

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 - Lake County - WO 001

TestAmerica Job ID: 500-90789-1

Client Sample ID: FP-7(0-3)-011415

Lab Sample ID: 500-90789-8

Date Collected: 01/14/15 15:10

Matrix: Solid

Date Received: 01/15/15 07:30

Percent Solids: 86.1

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.8		5.8	2.5	ug/Kg	*		01/16/15 12:21	1
Benzene	<5.8		5.8	0.80	ug/Kg	*		01/16/15 12:21	1
Bromodichloromethane	<5.8		5.8	1.0	ug/Kg	*		01/16/15 12:21	1
Bromoform	<5.8		5.8	1.3	ug/Kg	*		01/16/15 12:21	1
Bromomethane	<5.8		5.8	1.8	ug/Kg	*		01/16/15 12:21	1
Carbon disulfide	<5.8		5.8	0.87	ug/Kg	*		01/16/15 12:21	1
Carbon tetrachloride	<5.8		5.8	1.1	ug/Kg	*		01/16/15 12:21	1
Chlorobenzene	<5.8		5.8	0.59	ug/Kg	*		01/16/15 12:21	1
Chloroethane	<5.8		5.8	1.6	ug/Kg	*		01/16/15 12:21	1
Chloroform	<5.8		5.8	0.67	ug/Kg	*		01/16/15 12:21	1
Chloromethane	<5.8		5.8	1.2	ug/Kg	*		01/16/15 12:21	1
cis-1,2-Dichloroethene	<5.8		5.8	0.82	ug/Kg	*		01/16/15 12:21	1
cis-1,3-Dichloropropene	<5.8		5.8	0.76	ug/Kg	*		01/16/15 12:21	1
Dibromochloromethane	<5.8		5.8	1.0	ug/Kg	*		01/16/15 12:21	1
1,1-Dichloroethane	<5.8		5.8	0.92	ug/Kg	*		01/16/15 12:21	1
1,2-Dichloroethane	<5.8		5.8	0.86	ug/Kg	*		01/16/15 12:21	1
1,1-Dichloroethene	<5.8		5.8	0.94	ug/Kg	*		01/16/15 12:21	1
1,2-Dichloropropane	<5.8		5.8	0.88	ug/Kg	*		01/16/15 12:21	1
1,3-Dichloropropene, Total	<5.8		5.8	0.76	ug/Kg	*		01/16/15 12:21	1
Ethylbenzene	<5.8		5.8	1.2	ug/Kg	*		01/16/15 12:21	1
2-Hexanone	<5.8		5.8	1.7	ug/Kg	*		01/16/15 12:21	1
Methylene Chloride	<5.8		5.8	1.6	ug/Kg	*		01/16/15 12:21	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	*		01/16/15 12:21	1
methyl isobutyl ketone	<5.8		5.8	1.5	ug/Kg	*		01/16/15 12:21	1
Methyl tert-butyl ether	<5.8		5.8	0.96	ug/Kg	*		01/16/15 12:21	1
Styrene	<5.8		5.8	0.76	ug/Kg	*		01/16/15 12:21	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	1.2	ug/Kg	*		01/16/15 12:21	1
Tetrachloroethene	<5.8		5.8	0.89	ug/Kg	*		01/16/15 12:21	1
Toluene	<5.8		5.8	0.81	ug/Kg	*		01/16/15 12:21	1
trans-1,2-Dichloroethene	<5.8		5.8	0.80	ug/Kg	*		01/16/15 12:21	1
trans-1,3-Dichloropropene	<5.8	*	5.8	1.0	ug/Kg	*		01/16/15 12:21	1
1,1,1-Trichloroethane	<5.8		5.8	0.87	ug/Kg	*		01/16/15 12:21	1
1,1,2-Trichloroethane	<5.8		5.8	0.79	ug/Kg	*		01/16/15 12:21	1
Trichloroethene	<5.8		5.8	0.96	ug/Kg	*		01/16/15 12:21	1
Vinyl chloride	<5.8		5.8	1.2	ug/Kg	*		01/16/15 12:21	1
Xylenes, Total	<12		12	0.53	ug/Kg	*		01/16/15 12:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122		01/16/15 12:21	1
Dibromofluoromethane	97		75 - 120		01/16/15 12:21	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 134		01/16/15 12:21	1
Toluene-d8 (Surr)	98		75 - 122		01/16/15 12:21	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	*	01/15/15 17:32	01/20/15 22:48	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	*	01/15/15 17:32	01/20/15 22:48	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	*	01/15/15 17:32	01/20/15 22:48	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	*	01/15/15 17:32	01/20/15 22:48	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	*	01/15/15 17:32	01/20/15 22:48	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90789-1

Client Sample ID: FP-7(0-3)-011415

Lab Sample ID: 500-90789-8

Date Collected: 01/14/15 15:10

Matrix: Solid

Date Received: 01/15/15 07:30

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	☼	01/15/15 17:32	01/20/15 22:48	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	01/15/15 17:32	01/20/15 22:48	1
2,4-Dichlorophenol	<380		380	91	ug/Kg	☼	01/15/15 17:32	01/20/15 22:48	1
2,4-Dimethylphenol	<380		380	150	ug/Kg	☼	01/15/15 17:32	01/20/15 22:48	1
2,4-Dinitrophenol	<770		770	670	ug/Kg	☼	01/15/15 17:32	01/20/15 22:48	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	01/15/15 17:32	01/20/15 22:48	1
2,6-Dinitrotoluene	<190		190	75	ug/Kg	☼	01/15/15 17:32	01/20/15 22:48	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	01/15/15 17:32	01/20/15 22:48	1
2-Chlorophenol	<190		190	65	ug/Kg	☼	01/15/15 17:32	01/20/15 22:48	1
2-Methylnaphthalene	<38		38	7.0	ug/Kg	☼	01/15/15 17:32	01/20/15 22:48	1
2-Methylphenol	<190		190	61	ug/Kg	☼	01/15/15 17:32	01/20/15 22:48	1
2-Nitroaniline	<190		190	52	ug/Kg	☼	01/15/15 17:32	01/20/15 22:48	1
2-Nitrophenol	<380		380	90	ug/Kg	☼	01/15/15 17:32	01/20/15 22:48	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	☼	01/15/15 17:32	01/20/15 22:48	1
3,3'-Dichlorobenzidine	<190		190	54	ug/Kg	☼	01/15/15 17:32	01/20/15 22:48	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	01/15/15 17:32	01/20/15 22:48	1
4,6-Dinitro-2-methylphenol	<380		380	310	ug/Kg	☼	01/15/15 17:32	01/20/15 22:48	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	01/15/15 17:32	01/20/15 22:48	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	01/15/15 17:32	01/20/15 22:48	1
4-Chloroaniline	<770		770	180	ug/Kg	☼	01/15/15 17:32	01/20/15 22:48	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	01/15/15 17:32	01/20/15 22:48	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	01/15/15 17:32	01/20/15 22:48	1
4-Nitrophenol	<770		770	360	ug/Kg	☼	01/15/15 17:32	01/20/15 22:48	1
Acenaphthene	<38		38	6.9	ug/Kg	☼	01/15/15 17:32	01/20/15 22:48	1
Acenaphthylene	<38		38	5.0	ug/Kg	☼	01/15/15 17:32	01/20/15 22:48	1
Anthracene	<38		38	6.4	ug/Kg	☼	01/15/15 17:32	01/20/15 22:48	1
Benzo[a]anthracene	<38		38	5.2	ug/Kg	☼	01/15/15 17:32	01/20/15 22:48	1
Benzo[a]pyrene	<38		38	7.4	ug/Kg	☼	01/15/15 17:32	01/20/15 22:48	1
Benzo[b]fluoranthene	<38		38	8.3	ug/Kg	☼	01/15/15 17:32	01/20/15 22:48	1
Benzo[g,h,i]perylene	<38		38	12	ug/Kg	☼	01/15/15 17:32	01/20/15 22:48	1
Benzo[k]fluoranthene	<38		38	11	ug/Kg	☼	01/15/15 17:32	01/20/15 22:48	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	01/15/15 17:32	01/20/15 22:48	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	01/15/15 17:32	01/20/15 22:48	1
Bis(2-ethylhexyl) phthalate	<190		190	70	ug/Kg	☼	01/15/15 17:32	01/20/15 22:48	1
Butyl benzyl phthalate	<190		190	73	ug/Kg	☼	01/15/15 17:32	01/20/15 22:48	1
Carbazole	<190		190	99	ug/Kg	☼	01/15/15 17:32	01/20/15 22:48	1
Chrysene	<38		38	10	ug/Kg	☼	01/15/15 17:32	01/20/15 22:48	1
Dibenz(a,h)anthracene	<38		38	7.4	ug/Kg	☼	01/15/15 17:32	01/20/15 22:48	1
Dibenzofuran	<190		190	45	ug/Kg	☼	01/15/15 17:32	01/20/15 22:48	1
Diethyl phthalate	<190		190	65	ug/Kg	☼	01/15/15 17:32	01/20/15 22:48	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	01/15/15 17:32	01/20/15 22:48	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	01/15/15 17:32	01/20/15 22:48	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	01/15/15 17:32	01/20/15 22:48	1
Fluoranthene	<38		38	7.1	ug/Kg	☼	01/15/15 17:32	01/20/15 22:48	1
Fluorene	<38		38	5.4	ug/Kg	☼	01/15/15 17:32	01/20/15 22:48	1
Hexachlorobenzene	<77		77	8.9	ug/Kg	☼	01/15/15 17:32	01/20/15 22:48	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	01/15/15 17:32	01/20/15 22:48	1
Hexachlorocyclopentadiene	<770 *		770	220	ug/Kg	☼	01/15/15 17:32	01/20/15 22:48	1
Hexachloroethane	<190		190	58	ug/Kg	☼	01/15/15 17:32	01/20/15 22:48	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90789-1

Client Sample ID: FP-7(0-3)-011415

Lab Sample ID: 500-90789-8

Date Collected: 01/14/15 15:10

Matrix: Solid

Date Received: 01/15/15 07:30

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	<38		38	9.9	ug/Kg	☼	01/15/15 17:32	01/20/15 22:48	1
Isophorone	<190		190	43	ug/Kg	☼	01/15/15 17:32	01/20/15 22:48	1
Naphthalene	<38		38	5.9	ug/Kg	☼	01/15/15 17:32	01/20/15 22:48	1
Nitrobenzene	<38		38	9.6	ug/Kg	☼	01/15/15 17:32	01/20/15 22:48	1
N-Nitrosodi-n-propylamine	<190		190	47	ug/Kg	☼	01/15/15 17:32	01/20/15 22:48	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	01/15/15 17:32	01/20/15 22:48	1
Pentachlorophenol	<770		770	610	ug/Kg	☼	01/15/15 17:32	01/20/15 22:48	1
Phenanthrene	<38		38	5.3	ug/Kg	☼	01/15/15 17:32	01/20/15 22:48	1
Phenol	<190		190	85	ug/Kg	☼	01/15/15 17:32	01/20/15 22:48	1
Pyrene	<38		38	7.6	ug/Kg	☼	01/15/15 17:32	01/20/15 22:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	48		35 - 137				01/15/15 17:32	01/20/15 22:48	1
2-Fluorobiphenyl	46		25 - 119				01/15/15 17:32	01/20/15 22:48	1
2-Fluorophenol	42		25 - 110				01/15/15 17:32	01/20/15 22:48	1
Nitrobenzene-d5	39		25 - 115				01/15/15 17:32	01/20/15 22:48	1
Phenol-d5	45		31 - 110				01/15/15 17:32	01/20/15 22:48	1
Terphenyl-d14	55		36 - 134				01/15/15 17:32	01/20/15 22:48	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/19/15 08:00	01/19/15 21:36	1
Barium	0.38	J	0.50	0.050	mg/L		01/19/15 08:00	01/19/15 21:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/19/15 08:00	01/19/15 21:36	1
Cadmium	0.0021	J	0.0050	0.0020	mg/L		01/19/15 08:00	01/19/15 21:36	1
Chromium	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/19/15 21:36	1
Cobalt	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/19/15 21:36	1
Copper	0.085		0.025	0.010	mg/L		01/19/15 08:00	01/19/15 21:36	1
Iron	0.28		0.20	0.20	mg/L		01/19/15 08:00	01/19/15 21:36	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/19/15 08:00	01/19/15 21:36	1
Manganese	3.6		0.025	0.010	mg/L		01/19/15 08:00	01/19/15 21:36	1
Nickel	0.013	J	0.025	0.010	mg/L		01/19/15 08:00	01/19/15 21:36	1
Selenium	<0.050		0.050	0.020	mg/L		01/19/15 08:00	01/19/15 21:36	1
Silver	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/19/15 21:36	1
Zinc	0.063	J ^	0.10	0.020	mg/L		01/19/15 08:00	01/19/15 21:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.074		0.050	0.010	mg/L		01/20/15 08:00	01/20/15 21:51	1
Barium	0.66		0.50	0.050	mg/L		01/20/15 08:00	01/20/15 21:51	1
Beryllium	0.0084		0.0040	0.0040	mg/L		01/20/15 08:00	01/20/15 21:51	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/20/15 08:00	01/20/15 21:51	1
Chromium	0.20		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 21:51	1
Cobalt	0.074		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 21:51	1
Copper	0.33		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 21:51	1
Iron	220		0.20	0.20	mg/L		01/20/15 08:00	01/20/15 21:51	1
Lead	0.13		0.038	0.038	mg/L		01/20/15 08:00	01/21/15 12:57	5
Manganese	1.7		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 21:51	1
Nickel	0.27		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 21:51	1
Selenium	<0.050		0.050	0.020	mg/L		01/20/15 08:00	01/20/15 21:51	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90789-1

Client Sample ID: FP-7(0-3)-011415

Lab Sample ID: 500-90789-8

Date Collected: 01/14/15 15:10

Matrix: Solid

Date Received: 01/15/15 07:30

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		01/20/15 08:00	01/20/15 21:51	1
Zinc	0.81		0.10	0.020	mg/L		01/20/15 08:00	01/20/15 21:51	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	☼	01/16/15 10:10	01/17/15 19:29	1
Arsenic	5.7		0.54	0.25	mg/Kg	☼	01/16/15 10:10	01/17/15 19:29	1
Barium	49		0.54	0.099	mg/Kg	☼	01/16/15 10:10	01/17/15 19:29	1
Beryllium	0.61		0.22	0.047	mg/Kg	☼	01/16/15 10:10	01/17/15 19:29	1
Cadmium	0.046	J	0.11	0.031	mg/Kg	☼	01/16/15 10:10	01/17/15 19:29	1
Calcium	80000		110	35	mg/Kg	☼	01/16/15 10:10	01/19/15 15:42	10
Chromium	16		0.54	0.093	mg/Kg	☼	01/16/15 10:10	01/17/15 19:29	1
Cobalt	11		0.27	0.061	mg/Kg	☼	01/16/15 10:10	01/17/15 19:29	1
Copper	21		0.54	0.12	mg/Kg	☼	01/16/15 10:10	01/17/15 19:29	1
Iron	16000		11	4.2	mg/Kg	☼	01/16/15 10:10	01/17/15 19:29	1
Lead	20		0.27	0.13	mg/Kg	☼	01/16/15 10:10	01/17/15 19:29	1
Magnesium	32000		5.4	2.2	mg/Kg	☼	01/16/15 10:10	01/17/15 19:29	1
Manganese	600		0.54	0.11	mg/Kg	☼	01/16/15 10:10	01/17/15 19:29	1
Nickel	27		0.54	0.15	mg/Kg	☼	01/16/15 10:10	01/17/15 19:29	1
Potassium	2200		27	4.4	mg/Kg	☼	01/16/15 10:10	01/17/15 19:29	1
Selenium	0.43	J	0.54	0.27	mg/Kg	☼	01/16/15 10:10	01/19/15 15:37	1
Silver	<0.27		0.27	0.063	mg/Kg	☼	01/16/15 10:10	01/17/15 19:29	1
Sodium	1900	B	54	7.1	mg/Kg	☼	01/16/15 10:10	01/17/15 19:29	1
Thallium	<0.54		0.54	0.27	mg/Kg	☼	01/16/15 10:10	01/17/15 19:29	1
Vanadium	16		0.27	0.079	mg/Kg	☼	01/16/15 10:10	01/17/15 19:29	1
Zinc	53		1.1	0.34	mg/Kg	☼	01/16/15 10:10	01/17/15 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		01/20/15 11:00	01/21/15 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		01/20/15 11:00	01/21/15 09:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	22		18	7.2	ug/Kg	☼	01/15/15 13:00	01/16/15 09:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.64		0.200	0.200	SU			01/19/15 13:05	1

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90789-1

Client Sample ID: FP-6(0-3)-011415

Lab Sample ID: 500-90789-9

Date Collected: 01/14/15 15:25

Matrix: Solid

Date Received: 01/15/15 07:30

Percent Solids: 85.7

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	28		5.8	2.5	ug/Kg	☼		01/16/15 12:46	1
Benzene	<5.8		5.8	0.80	ug/Kg	☼		01/16/15 12:46	1
Bromodichloromethane	<5.8		5.8	1.0	ug/Kg	☼		01/16/15 12:46	1
Bromoform	<5.8		5.8	1.3	ug/Kg	☼		01/16/15 12:46	1
Bromomethane	<5.8		5.8	1.8	ug/Kg	☼		01/16/15 12:46	1
Carbon disulfide	<5.8		5.8	0.87	ug/Kg	☼		01/16/15 12:46	1
Carbon tetrachloride	<5.8		5.8	1.1	ug/Kg	☼		01/16/15 12:46	1
Chlorobenzene	<5.8		5.8	0.59	ug/Kg	☼		01/16/15 12:46	1
Chloroethane	<5.8		5.8	1.6	ug/Kg	☼		01/16/15 12:46	1
Chloroform	<5.8		5.8	0.67	ug/Kg	☼		01/16/15 12:46	1
Chloromethane	<5.8		5.8	1.2	ug/Kg	☼		01/16/15 12:46	1
cis-1,2-Dichloroethene	<5.8		5.8	0.83	ug/Kg	☼		01/16/15 12:46	1
cis-1,3-Dichloropropene	<5.8		5.8	0.77	ug/Kg	☼		01/16/15 12:46	1
Dibromochloromethane	<5.8		5.8	1.0	ug/Kg	☼		01/16/15 12:46	1
1,1-Dichloroethane	<5.8		5.8	0.92	ug/Kg	☼		01/16/15 12:46	1
1,2-Dichloroethane	<5.8		5.8	0.86	ug/Kg	☼		01/16/15 12:46	1
1,1-Dichloroethene	<5.8		5.8	0.94	ug/Kg	☼		01/16/15 12:46	1
1,2-Dichloropropane	<5.8		5.8	0.89	ug/Kg	☼		01/16/15 12:46	1
1,3-Dichloropropene, Total	<5.8		5.8	0.77	ug/Kg	☼		01/16/15 12:46	1
Ethylbenzene	<5.8		5.8	1.2	ug/Kg	☼		01/16/15 12:46	1
2-Hexanone	<5.8		5.8	1.7	ug/Kg	☼		01/16/15 12:46	1
Methylene Chloride	<5.8		5.8	1.6	ug/Kg	☼		01/16/15 12:46	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		01/16/15 12:46	1
methyl isobutyl ketone	<5.8		5.8	1.5	ug/Kg	☼		01/16/15 12:46	1
Methyl tert-butyl ether	<5.8		5.8	0.96	ug/Kg	☼		01/16/15 12:46	1
Styrene	<5.8		5.8	0.77	ug/Kg	☼		01/16/15 12:46	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	1.2	ug/Kg	☼		01/16/15 12:46	1
Tetrachloroethene	<5.8		5.8	0.89	ug/Kg	☼		01/16/15 12:46	1
Toluene	<5.8		5.8	0.82	ug/Kg	☼		01/16/15 12:46	1
trans-1,2-Dichloroethene	<5.8		5.8	0.80	ug/Kg	☼		01/16/15 12:46	1
trans-1,3-Dichloropropene	<5.8 *		5.8	1.0	ug/Kg	☼		01/16/15 12:46	1
1,1,1-Trichloroethane	<5.8		5.8	0.87	ug/Kg	☼		01/16/15 12:46	1
1,1,2-Trichloroethane	<5.8		5.8	0.80	ug/Kg	☼		01/16/15 12:46	1
Trichloroethene	<5.8		5.8	0.96	ug/Kg	☼		01/16/15 12:46	1
Vinyl chloride	<5.8		5.8	1.2	ug/Kg	☼		01/16/15 12:46	1
Xylenes, Total	<12		12	0.53	ug/Kg	☼		01/16/15 12:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122		01/16/15 12:46	1
Dibromofluoromethane	102		75 - 120		01/16/15 12:46	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134		01/16/15 12:46	1
Toluene-d8 (Surr)	97		75 - 122		01/16/15 12:46	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	40	ug/Kg	☼	01/15/15 17:32	01/20/15 23:11	1
1,2-Dichlorobenzene	<180		180	44	ug/Kg	☼	01/15/15 17:32	01/20/15 23:11	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	01/15/15 17:32	01/20/15 23:11	1
1,4-Dichlorobenzene	<180		180	47	ug/Kg	☼	01/15/15 17:32	01/20/15 23:11	1
2,2'-oxybis[1-chloropropane]	<180		180	43	ug/Kg	☼	01/15/15 17:32	01/20/15 23:11	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90789-1

Client Sample ID: FP-6(0-3)-011415

Lab Sample ID: 500-90789-9

Date Collected: 01/14/15 15:25

Matrix: Solid

Date Received: 01/15/15 07:30

Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<360		360	84	ug/Kg	☼	01/15/15 17:32	01/20/15 23:11	1
2,4,6-Trichlorophenol	<360		360	130	ug/Kg	☼	01/15/15 17:32	01/20/15 23:11	1
2,4-Dichlorophenol	<360		360	87	ug/Kg	☼	01/15/15 17:32	01/20/15 23:11	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	01/15/15 17:32	01/20/15 23:11	1
2,4-Dinitrophenol	<740		740	650	ug/Kg	☼	01/15/15 17:32	01/20/15 23:11	1
2,4-Dinitrotoluene	<180		180	58	ug/Kg	☼	01/15/15 17:32	01/20/15 23:11	1
2,6-Dinitrotoluene	<180		180	72	ug/Kg	☼	01/15/15 17:32	01/20/15 23:11	1
2-Chloronaphthalene	<180		180	41	ug/Kg	☼	01/15/15 17:32	01/20/15 23:11	1
2-Chlorophenol	<180		180	63	ug/Kg	☼	01/15/15 17:32	01/20/15 23:11	1
2-Methylnaphthalene	<36		36	6.7	ug/Kg	☼	01/15/15 17:32	01/20/15 23:11	1
2-Methylphenol	<180		180	59	ug/Kg	☼	01/15/15 17:32	01/20/15 23:11	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	01/15/15 17:32	01/20/15 23:11	1
2-Nitrophenol	<360		360	87	ug/Kg	☼	01/15/15 17:32	01/20/15 23:11	1
3 & 4 Methylphenol	<180		180	61	ug/Kg	☼	01/15/15 17:32	01/20/15 23:11	1
3,3'-Dichlorobenzidine	<180		180	51	ug/Kg	☼	01/15/15 17:32	01/20/15 23:11	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	01/15/15 17:32	01/20/15 23:11	1
4,6-Dinitro-2-methylphenol	<360		360	290	ug/Kg	☼	01/15/15 17:32	01/20/15 23:11	1
4-Bromophenyl phenyl ether	<180		180	48	ug/Kg	☼	01/15/15 17:32	01/20/15 23:11	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	01/15/15 17:32	01/20/15 23:11	1
4-Chloroaniline	<740		740	170	ug/Kg	☼	01/15/15 17:32	01/20/15 23:11	1
4-Chlorophenyl phenyl ether	<180		180	43	ug/Kg	☼	01/15/15 17:32	01/20/15 23:11	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	01/15/15 17:32	01/20/15 23:11	1
4-Nitrophenol	<740		740	350	ug/Kg	☼	01/15/15 17:32	01/20/15 23:11	1
Acenaphthene	<36		36	6.6	ug/Kg	☼	01/15/15 17:32	01/20/15 23:11	1
Acenaphthylene	<36		36	4.8	ug/Kg	☼	01/15/15 17:32	01/20/15 23:11	1
Anthracene	<36		36	6.1	ug/Kg	☼	01/15/15 17:32	01/20/15 23:11	1
Benzo[a]anthracene	<36		36	4.9	ug/Kg	☼	01/15/15 17:32	01/20/15 23:11	1
Benzo[a]pyrene	<36		36	7.1	ug/Kg	☼	01/15/15 17:32	01/20/15 23:11	1
Benzo[b]fluoranthene	<36		36	7.9	ug/Kg	☼	01/15/15 17:32	01/20/15 23:11	1
Benzo[g,h,i]perylene	<36		36	12	ug/Kg	☼	01/15/15 17:32	01/20/15 23:11	1
Benzo[k]fluoranthene	<36		36	11	ug/Kg	☼	01/15/15 17:32	01/20/15 23:11	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	01/15/15 17:32	01/20/15 23:11	1
Bis(2-chloroethyl)ether	<180		180	55	ug/Kg	☼	01/15/15 17:32	01/20/15 23:11	1
Bis(2-ethylhexyl) phthalate	<180		180	67	ug/Kg	☼	01/15/15 17:32	01/20/15 23:11	1
Butyl benzyl phthalate	<180		180	70	ug/Kg	☼	01/15/15 17:32	01/20/15 23:11	1
Carbazole	<180		180	95	ug/Kg	☼	01/15/15 17:32	01/20/15 23:11	1
Chrysene	<36		36	10	ug/Kg	☼	01/15/15 17:32	01/20/15 23:11	1
Dibenz(a,h)anthracene	<36		36	7.1	ug/Kg	☼	01/15/15 17:32	01/20/15 23:11	1
Dibenzofuran	<180		180	43	ug/Kg	☼	01/15/15 17:32	01/20/15 23:11	1
Diethyl phthalate	<180		180	62	ug/Kg	☼	01/15/15 17:32	01/20/15 23:11	1
Dimethyl phthalate	<180		180	48	ug/Kg	☼	01/15/15 17:32	01/20/15 23:11	1
Di-n-butyl phthalate	<180		180	56	ug/Kg	☼	01/15/15 17:32	01/20/15 23:11	1
Di-n-octyl phthalate	<180		180	60	ug/Kg	☼	01/15/15 17:32	01/20/15 23:11	1
Fluoranthene	<36		36	6.8	ug/Kg	☼	01/15/15 17:32	01/20/15 23:11	1
Fluorene	<36		36	5.2	ug/Kg	☼	01/15/15 17:32	01/20/15 23:11	1
Hexachlorobenzene	<74		74	8.5	ug/Kg	☼	01/15/15 17:32	01/20/15 23:11	1
Hexachlorobutadiene	<180		180	58	ug/Kg	☼	01/15/15 17:32	01/20/15 23:11	1
Hexachlorocyclopentadiene	<740 *		740	210	ug/Kg	☼	01/15/15 17:32	01/20/15 23:11	1
Hexachloroethane	<180		180	56	ug/Kg	☼	01/15/15 17:32	01/20/15 23:11	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90789-1

Client Sample ID: FP-6(0-3)-011415

Lab Sample ID: 500-90789-9

Date Collected: 01/14/15 15:25

Matrix: Solid

Date Received: 01/15/15 07:30

Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<36		36	9.5	ug/Kg	☼	01/15/15 17:32	01/20/15 23:11	1
Isophorone	<180		180	41	ug/Kg	☼	01/15/15 17:32	01/20/15 23:11	1
Naphthalene	<36		36	5.6	ug/Kg	☼	01/15/15 17:32	01/20/15 23:11	1
Nitrobenzene	<36		36	9.2	ug/Kg	☼	01/15/15 17:32	01/20/15 23:11	1
N-Nitrosodi-n-propylamine	<180		180	45	ug/Kg	☼	01/15/15 17:32	01/20/15 23:11	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	01/15/15 17:32	01/20/15 23:11	1
Pentachlorophenol	<740		740	590	ug/Kg	☼	01/15/15 17:32	01/20/15 23:11	1
Phenanthrene	<36		36	5.1	ug/Kg	☼	01/15/15 17:32	01/20/15 23:11	1
Phenol	<180		180	82	ug/Kg	☼	01/15/15 17:32	01/20/15 23:11	1
Pyrene	<36		36	7.3	ug/Kg	☼	01/15/15 17:32	01/20/15 23:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	51		35 - 137				01/15/15 17:32	01/20/15 23:11	1
2-Fluorobiphenyl	48		25 - 119				01/15/15 17:32	01/20/15 23:11	1
2-Fluorophenol	49		25 - 110				01/15/15 17:32	01/20/15 23:11	1
Nitrobenzene-d5	45		25 - 115				01/15/15 17:32	01/20/15 23:11	1
Phenol-d5	49		31 - 110				01/15/15 17:32	01/20/15 23:11	1
Terphenyl-d14	73		36 - 134				01/15/15 17:32	01/20/15 23:11	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		01/19/15 08:00	01/19/15 21:41	1
Barium	0.40	J	0.50	0.050	mg/L		01/19/15 08:00	01/19/15 21:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/19/15 08:00	01/19/15 21:41	1
Cadmium	0.0023	J	0.0050	0.0020	mg/L		01/19/15 08:00	01/19/15 21:41	1
Chromium	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/19/15 21:41	1
Cobalt	0.019	J	0.025	0.010	mg/L		01/19/15 08:00	01/19/15 21:41	1
Copper	0.041		0.025	0.010	mg/L		01/19/15 08:00	01/19/15 21:41	1
Iron	0.30		0.20	0.20	mg/L		01/19/15 08:00	01/19/15 21:41	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/19/15 08:00	01/19/15 21:41	1
Manganese	14		0.025	0.010	mg/L		01/19/15 08:00	01/19/15 21:41	1
Nickel	0.015	J	0.025	0.010	mg/L		01/19/15 08:00	01/19/15 21:41	1
Selenium	<0.050		0.050	0.020	mg/L		01/19/15 08:00	01/19/15 21:41	1
Silver	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/19/15 21:41	1
Zinc	0.045	J ^	0.10	0.020	mg/L		01/19/15 08:00	01/19/15 21:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.063		0.050	0.010	mg/L		01/20/15 08:00	01/20/15 21:55	1
Barium	0.66		0.50	0.050	mg/L		01/20/15 08:00	01/20/15 21:55	1
Beryllium	0.0080		0.0040	0.0040	mg/L		01/20/15 08:00	01/20/15 21:55	1
Cadmium	0.0020	J	0.0050	0.0020	mg/L		01/20/15 08:00	01/20/15 21:55	1
Chromium	0.19		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 21:55	1
Cobalt	0.083		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 21:55	1
Copper	0.35		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 21:55	1
Iron	190		0.20	0.20	mg/L		01/20/15 08:00	01/20/15 21:55	1
Lead	0.11		0.038	0.038	mg/L		01/20/15 08:00	01/21/15 13:01	5
Manganese	2.0		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 21:55	1
Nickel	0.26		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 21:55	1
Selenium	<0.050		0.050	0.020	mg/L		01/20/15 08:00	01/20/15 21:55	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90789-1

Client Sample ID: FP-6(0-3)-011415

Lab Sample ID: 500-90789-9

Date Collected: 01/14/15 15:25

Matrix: Solid

Date Received: 01/15/15 07:30

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		01/20/15 08:00	01/20/15 21:55	1
Zinc	0.71		0.10	0.020	mg/L		01/20/15 08:00	01/20/15 21:55	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	☼	01/16/15 10:10	01/17/15 19:34	1
Arsenic	6.8		0.58	0.27	mg/Kg	☼	01/16/15 10:10	01/17/15 19:34	1
Barium	46		0.58	0.11	mg/Kg	☼	01/16/15 10:10	01/17/15 19:34	1
Beryllium	0.63		0.23	0.050	mg/Kg	☼	01/16/15 10:10	01/17/15 19:34	1
Cadmium	0.10	J	0.12	0.034	mg/Kg	☼	01/16/15 10:10	01/17/15 19:34	1
Calcium	35000		120	37	mg/Kg	☼	01/16/15 10:10	01/19/15 16:14	10
Chromium	15		0.58	0.10	mg/Kg	☼	01/16/15 10:10	01/17/15 19:34	1
Cobalt	12		0.29	0.066	mg/Kg	☼	01/16/15 10:10	01/17/15 19:34	1
Copper	23		0.58	0.13	mg/Kg	☼	01/16/15 10:10	01/17/15 19:34	1
Iron	19000		12	4.5	mg/Kg	☼	01/16/15 10:10	01/17/15 19:34	1
Lead	23		0.29	0.14	mg/Kg	☼	01/16/15 10:10	01/17/15 19:34	1
Magnesium	15000		5.8	2.4	mg/Kg	☼	01/16/15 10:10	01/17/15 19:34	1
Manganese	580		0.58	0.12	mg/Kg	☼	01/16/15 10:10	01/17/15 19:34	1
Nickel	30		0.58	0.16	mg/Kg	☼	01/16/15 10:10	01/17/15 19:34	1
Potassium	1400		29	4.7	mg/Kg	☼	01/16/15 10:10	01/17/15 19:34	1
Selenium	0.42	J	0.58	0.29	mg/Kg	☼	01/16/15 10:10	01/19/15 15:46	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	01/16/15 10:10	01/17/15 19:34	1
Sodium	1400	B	58	7.7	mg/Kg	☼	01/16/15 10:10	01/17/15 19:34	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	01/16/15 10:10	01/17/15 19:34	1
Vanadium	19		0.29	0.085	mg/Kg	☼	01/16/15 10:10	01/17/15 19:34	1
Zinc	74		1.2	0.37	mg/Kg	☼	01/16/15 10:10	01/17/15 19:34	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		01/20/15 11:00	01/21/15 09:35	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		01/20/15 11:00	01/21/15 09:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	28		18	7.2	ug/Kg	☼	01/15/15 13:00	01/16/15 09:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.97		0.200	0.200	SU			01/19/15 13:09	1

Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90789-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits

GC/MS Semi VOA

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

Metals

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90789-1

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-15

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

Analysis Method	Prep Method	Matrix	Analyte
7470A	7470A	Solid	Mercury
8260B		Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

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TestAmerica

THE LEADER IN ENVIRONMENTAL

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



500-90789 COC

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

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

Chain of Custody Record

Lab Job #: 500-90789
 Chain of Custody Number: _____
 Page 3 of 3
 Temperature °C of Cooler: 3, 2, 2, 8

Client		Client Project #		Preservative		Parameter		Matrix		Comments	
Weston				7	7	7	7	7			
Project Name		Lab Project #		Date		Time		Matrix		Preservative Key	
IDOT 001											
Project Location/State		Lab Project #		Date		Time		Matrix		Preservative Key	
IL											
Sampler		Lab PM		Date		Time		Matrix		Preservative Key	
M. Straw		D. Wright									
Lab ID	MIS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs	SVOCs	Total Metals	TCUP/SPLP Metals	pH
1		LC-4 (0-3)-011415	1/14/15	1350	2	S	X	X	X	X	X
2		LC-3 (0-3)-011415		1400							
3		LC-2 (0-3)-011415		1415							
4		LC-1 (0-3)-011415		1425							
5		UC-2 (0-3)-011415		1440							
6		UC-1 (0-3)-011415		1455							
7		UC-1 (0-3)-011415D		1455							
8		FP-7 (0-3)-011415		1510							
9		FP-6 (0-3)-011415		1525							

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

Turnaround Time Required (Business Days)

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

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>M. Straw</u>	Company: <u>Weston</u>	Date: <u>1/14/15</u>	Time: <u>1540</u>	Received By: <u>[Signature]</u>	Company: <u>TA</u>	Date: <u>1/14/15</u>	Time: <u>1540</u>
Relinquished By: <u>[Signature]</u>	Company: <u>TA</u>	Date: <u>1/14/15</u>	Time: <u>1720</u>	Received By: <u>[Signature]</u>	Company: <u>TA-CHE</u>	Date: <u>1/15/15</u>	Time: <u>0730</u>

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: 500-90849-1
Client Project/Site: IDOT - Lake County - WO 001

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

Attn: Mr. S. Babusukumar



Authorized for release by:
1/27/2015 8:24:19 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.

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Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90849-1

Client Sample ID: FP-5(0-3)-011515

Lab Sample ID: 500-90849-1

Date Collected: 01/15/15 08:35

Matrix: Solid

Date Received: 01/16/15 07:25

Percent Solids: 86.1

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10		5.8	2.5	ug/Kg	☼		01/20/15 11:12	1
Benzene	<5.8		5.8	0.80	ug/Kg	☼		01/20/15 11:12	1
Bromodichloromethane	<5.8		5.8	1.0	ug/Kg	☼		01/20/15 11:12	1
Bromoform	<5.8		5.8	1.3	ug/Kg	☼		01/20/15 11:12	1
Bromomethane	<5.8		5.8	1.8	ug/Kg	☼		01/20/15 11:12	1
Carbon disulfide	<5.8		5.8	0.87	ug/Kg	☼		01/20/15 11:12	1
Carbon tetrachloride	<5.8		5.8	1.1	ug/Kg	☼		01/20/15 11:12	1
Chlorobenzene	<5.8		5.8	0.59	ug/Kg	☼		01/20/15 11:12	1
Chloroethane	<5.8		5.8	1.6	ug/Kg	☼		01/20/15 11:12	1
Chloroform	<5.8		5.8	0.67	ug/Kg	☼		01/20/15 11:12	1
Chloromethane	<5.8		5.8	1.2	ug/Kg	☼		01/20/15 11:12	1
cis-1,2-Dichloroethene	<5.8		5.8	0.82	ug/Kg	☼		01/20/15 11:12	1
cis-1,3-Dichloropropene	<5.8		5.8	0.76	ug/Kg	☼		01/20/15 11:12	1
Dibromochloromethane	<5.8		5.8	1.0	ug/Kg	☼		01/20/15 11:12	1
1,1-Dichloroethane	<5.8		5.8	0.92	ug/Kg	☼		01/20/15 11:12	1
1,2-Dichloroethane	<5.8		5.8	0.86	ug/Kg	☼		01/20/15 11:12	1
1,1-Dichloroethene	<5.8		5.8	0.94	ug/Kg	☼		01/20/15 11:12	1
1,2-Dichloropropane	<5.8		5.8	0.88	ug/Kg	☼		01/20/15 11:12	1
1,3-Dichloropropene, Total	<5.8		5.8	0.76	ug/Kg	☼		01/20/15 11:12	1
Ethylbenzene	<5.8		5.8	1.2	ug/Kg	☼		01/20/15 11:12	1
2-Hexanone	<5.8		5.8	1.7	ug/Kg	☼		01/20/15 11:12	1
Methylene Chloride	<5.8		5.8	1.6	ug/Kg	☼		01/20/15 11:12	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		01/20/15 11:12	1
methyl isobutyl ketone	<5.8		5.8	1.5	ug/Kg	☼		01/20/15 11:12	1
Methyl tert-butyl ether	<5.8		5.8	0.96	ug/Kg	☼		01/20/15 11:12	1
Styrene	<5.8		5.8	0.76	ug/Kg	☼		01/20/15 11:12	1
1,1,1,2-Tetrachloroethane	<5.8		5.8	1.2	ug/Kg	☼		01/20/15 11:12	1
Tetrachloroethene	<5.8		5.8	0.89	ug/Kg	☼		01/20/15 11:12	1
Toluene	<5.8		5.8	0.81	ug/Kg	☼		01/20/15 11:12	1
trans-1,2-Dichloroethene	<5.8		5.8	0.80	ug/Kg	☼		01/20/15 11:12	1
trans-1,3-Dichloropropene	<5.8		5.8	1.0	ug/Kg	☼		01/20/15 11:12	1
1,1,1-Trichloroethane	<5.8		5.8	0.87	ug/Kg	☼		01/20/15 11:12	1
1,1,2-Trichloroethane	<5.8		5.8	0.79	ug/Kg	☼		01/20/15 11:12	1
Trichloroethene	<5.8		5.8	0.96	ug/Kg	☼		01/20/15 11:12	1
Vinyl chloride	<5.8		5.8	1.2	ug/Kg	☼		01/20/15 11:12	1
Xylenes, Total	<12		12	0.53	ug/Kg	☼		01/20/15 11:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122		01/20/15 11:12	1
Dibromofluoromethane	103		75 - 120		01/20/15 11:12	1
1,2-Dichloroethane-d4 (Surr)	117		70 - 134		01/20/15 11:12	1
Toluene-d8 (Surr)	97		75 - 122		01/20/15 11:12	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	☼	01/16/15 15:52	01/21/15 11:50	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	01/16/15 15:52	01/21/15 11:50	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	01/16/15 15:52	01/21/15 11:50	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	01/16/15 15:52	01/21/15 11:50	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	01/16/15 15:52	01/21/15 11:50	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90849-1

Client Sample ID: FP-5(0-3)-011515

Lab Sample ID: 500-90849-1

Date Collected: 01/15/15 08:35

Matrix: Solid

Date Received: 01/16/15 07:25

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	86	ug/Kg	☼	01/16/15 15:52	01/21/15 11:50	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	01/16/15 15:52	01/21/15 11:50	1
2,4-Dichlorophenol	<380		380	90	ug/Kg	☼	01/16/15 15:52	01/21/15 11:50	1
2,4-Dimethylphenol	<380		380	140	ug/Kg	☼	01/16/15 15:52	01/21/15 11:50	1
2,4-Dinitrophenol	<760 *		760	670	ug/Kg	☼	01/16/15 15:52	01/21/15 11:50	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	01/16/15 15:52	01/21/15 11:50	1
2,6-Dinitrotoluene	<190		190	74	ug/Kg	☼	01/16/15 15:52	01/21/15 11:50	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	01/16/15 15:52	01/21/15 11:50	1
2-Chlorophenol	<190		190	65	ug/Kg	☼	01/16/15 15:52	01/21/15 11:50	1
2-Methylnaphthalene	<38		38	7.0	ug/Kg	☼	01/16/15 15:52	01/21/15 11:50	1
2-Methylphenol	<190		190	61	ug/Kg	☼	01/16/15 15:52	01/21/15 11:50	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	01/16/15 15:52	01/21/15 11:50	1
2-Nitrophenol	<380		380	90	ug/Kg	☼	01/16/15 15:52	01/21/15 11:50	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	01/16/15 15:52	01/21/15 11:50	1
3,3'-Dichlorobenzidine	<190		190	53	ug/Kg	☼	01/16/15 15:52	01/21/15 11:50	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	01/16/15 15:52	01/21/15 11:50	1
4,6-Dinitro-2-methylphenol	<380		380	300	ug/Kg	☼	01/16/15 15:52	01/21/15 11:50	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	01/16/15 15:52	01/21/15 11:50	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	01/16/15 15:52	01/21/15 11:50	1
4-Chloroaniline	<760		760	180	ug/Kg	☼	01/16/15 15:52	01/21/15 11:50	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	01/16/15 15:52	01/21/15 11:50	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	01/16/15 15:52	01/21/15 11:50	1
4-Nitrophenol	<760		760	360	ug/Kg	☼	01/16/15 15:52	01/21/15 11:50	1
Acenaphthene	<38		38	6.8	ug/Kg	☼	01/16/15 15:52	01/21/15 11:50	1
Acenaphthylene	<38		38	5.0	ug/Kg	☼	01/16/15 15:52	01/21/15 11:50	1
Anthracene	<38		38	6.3	ug/Kg	☼	01/16/15 15:52	01/21/15 11:50	1
Benzo[a]anthracene	19 J		38	5.1	ug/Kg	☼	01/16/15 15:52	01/21/15 11:50	1
Benzo[a]pyrene	27 J		38	7.3	ug/Kg	☼	01/16/15 15:52	01/21/15 11:50	1
Benzo[b]fluoranthene	33 J		38	8.2	ug/Kg	☼	01/16/15 15:52	01/21/15 11:50	1
Benzo[g,h,i]perylene	25 J		38	12	ug/Kg	☼	01/16/15 15:52	01/21/15 11:50	1
Benzo[k]fluoranthene	22 J		38	11	ug/Kg	☼	01/16/15 15:52	01/21/15 11:50	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	01/16/15 15:52	01/21/15 11:50	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	01/16/15 15:52	01/21/15 11:50	1
Bis(2-ethylhexyl) phthalate	<190		190	69	ug/Kg	☼	01/16/15 15:52	01/21/15 11:50	1
Butyl benzyl phthalate	<190		190	72	ug/Kg	☼	01/16/15 15:52	01/21/15 11:50	1
Carbazole	<190		190	98	ug/Kg	☼	01/16/15 15:52	01/21/15 11:50	1
Chrysene	26 J		38	10	ug/Kg	☼	01/16/15 15:52	01/21/15 11:50	1
Dibenz(a,h)anthracene	17 J		38	7.3	ug/Kg	☼	01/16/15 15:52	01/21/15 11:50	1
Dibenzofuran	<190		190	44	ug/Kg	☼	01/16/15 15:52	01/21/15 11:50	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	01/16/15 15:52	01/21/15 11:50	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	01/16/15 15:52	01/21/15 11:50	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	01/16/15 15:52	01/21/15 11:50	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	01/16/15 15:52	01/21/15 11:50	1
Fluoranthene	27 J		38	7.0	ug/Kg	☼	01/16/15 15:52	01/21/15 11:50	1
Fluorene	<38		38	5.3	ug/Kg	☼	01/16/15 15:52	01/21/15 11:50	1
Hexachlorobenzene	<76		76	8.8	ug/Kg	☼	01/16/15 15:52	01/21/15 11:50	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	01/16/15 15:52	01/21/15 11:50	1
Hexachlorocyclopentadiene	<760		760	220	ug/Kg	☼	01/16/15 15:52	01/21/15 11:50	1
Hexachloroethane	<190		190	58	ug/Kg	☼	01/16/15 15:52	01/21/15 11:50	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90849-1

Client Sample ID: FP-5(0-3)-011515

Lab Sample ID: 500-90849-1

Date Collected: 01/15/15 08:35

Matrix: Solid

Date Received: 01/16/15 07:25

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	22	J	38	9.8	ug/Kg	☼	01/16/15 15:52	01/21/15 11:50	1
Isophorone	<190		190	43	ug/Kg	☼	01/16/15 15:52	01/21/15 11:50	1
Naphthalene	<38		38	5.8	ug/Kg	☼	01/16/15 15:52	01/21/15 11:50	1
Nitrobenzene	<38		38	9.5	ug/Kg	☼	01/16/15 15:52	01/21/15 11:50	1
N-Nitrosodi-n-propylamine	<190		190	46	ug/Kg	☼	01/16/15 15:52	01/21/15 11:50	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	01/16/15 15:52	01/21/15 11:50	1
Pentachlorophenol	<760		760	610	ug/Kg	☼	01/16/15 15:52	01/21/15 11:50	1
Phenanthrene	12	J	38	5.3	ug/Kg	☼	01/16/15 15:52	01/21/15 11:50	1
Phenol	<190		190	84	ug/Kg	☼	01/16/15 15:52	01/21/15 11:50	1
Pyrene	26	J	38	7.5	ug/Kg	☼	01/16/15 15:52	01/21/15 11:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>2,4,6-Tribromophenol</i>	58		35 - 137				01/16/15 15:52	01/21/15 11:50	1
<i>2-Fluorobiphenyl</i>	47		25 - 119				01/16/15 15:52	01/21/15 11:50	1
<i>2-Fluorophenol</i>	57		25 - 110				01/16/15 15:52	01/21/15 11:50	1
<i>Nitrobenzene-d5</i>	52		25 - 115				01/16/15 15:52	01/21/15 11:50	1
<i>Phenol-d5</i>	50		31 - 110				01/16/15 15:52	01/21/15 11:50	1
<i>Terphenyl-d14</i>	72		36 - 134				01/16/15 15:52	01/21/15 11:50	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		01/19/15 08:00	01/21/15 17:54	1
Barium	0.23	J	0.50	0.050	mg/L		01/19/15 08:00	01/21/15 17:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/19/15 08:00	01/21/15 17:54	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/19/15 08:00	01/21/15 17:54	1
Chromium	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/21/15 17:54	1
Cobalt	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/21/15 17:54	1
Copper	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/21/15 17:54	1
Iron	<0.20		0.20	0.20	mg/L		01/19/15 08:00	01/21/15 17:54	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/19/15 08:00	01/21/15 17:54	1
Manganese	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/21/15 17:54	1
Nickel	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/21/15 17:54	1
Selenium	<0.050		0.050	0.020	mg/L		01/19/15 08:00	01/21/15 17:54	1
Silver	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/21/15 17:54	1
Zinc	<0.10		0.10	0.020	mg/L		01/19/15 08:00	01/21/15 17:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.056		0.050	0.010	mg/L		01/20/15 08:30	01/21/15 13:21	1
Barium	0.41	J	0.50	0.050	mg/L		01/20/15 08:30	01/21/15 13:21	1
Beryllium	0.0058		0.0040	0.0040	mg/L		01/20/15 08:30	01/21/15 13:21	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/20/15 08:30	01/21/15 13:21	1
Chromium	0.14		0.025	0.010	mg/L		01/20/15 08:30	01/21/15 13:21	1
Cobalt	0.044		0.025	0.010	mg/L		01/20/15 08:30	01/21/15 13:21	1
Copper	0.19		0.025	0.010	mg/L		01/20/15 08:30	01/21/15 13:21	1
Iron	150		0.20	0.20	mg/L		01/20/15 08:30	01/21/15 13:21	1
Lead	0.095		0.0075	0.0075	mg/L		01/20/15 08:30	01/21/15 13:21	1
Manganese	1.3		0.025	0.010	mg/L		01/20/15 08:30	01/21/15 13:21	1
Nickel	0.16		0.025	0.010	mg/L		01/20/15 08:30	01/21/15 13:21	1
Selenium	<0.050		0.050	0.020	mg/L		01/20/15 08:30	01/21/15 13:21	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90849-1

Client Sample ID: FP-5(0-3)-011515

Lab Sample ID: 500-90849-1

Date Collected: 01/15/15 08:35

Matrix: Solid

Date Received: 01/16/15 07:25

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		01/20/15 08:30	01/21/15 13:21	1
Zinc	0.46		0.10	0.020	mg/L		01/20/15 08:30	01/21/15 13:21	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.45	J	1.1	0.23	mg/Kg	☼	01/18/15 16:30	01/20/15 13:52	1
Arsenic	7.7		0.57	0.26	mg/Kg	☼	01/18/15 16:30	01/20/15 13:52	1
Barium	50		0.57	0.10	mg/Kg	☼	01/18/15 16:30	01/20/15 13:52	1
Beryllium	0.66		0.23	0.049	mg/Kg	☼	01/18/15 16:30	01/20/15 13:52	1
Cadmium	0.40		0.11	0.033	mg/Kg	☼	01/18/15 16:30	01/20/15 13:52	1
Calcium	28000		11	3.6	mg/Kg	☼	01/18/15 16:30	01/20/15 13:52	1
Chromium	18		0.57	0.097	mg/Kg	☼	01/18/15 16:30	01/20/15 13:52	1
Cobalt	9.6		0.28	0.064	mg/Kg	☼	01/18/15 16:30	01/20/15 13:52	1
Copper	24	B	0.57	0.12	mg/Kg	☼	01/18/15 16:30	01/20/15 13:52	1
Iron	21000		11	4.4	mg/Kg	☼	01/18/15 16:30	01/20/15 13:52	1
Lead	20		0.28	0.14	mg/Kg	☼	01/18/15 16:30	01/20/15 13:52	1
Magnesium	19000		5.7	2.3	mg/Kg	☼	01/18/15 16:30	01/20/15 13:52	1
Manganese	710		0.57	0.11	mg/Kg	☼	01/18/15 16:30	01/20/15 13:52	1
Nickel	24		0.57	0.15	mg/Kg	☼	01/18/15 16:30	01/20/15 13:52	1
Potassium	2200		28	4.6	mg/Kg	☼	01/18/15 16:30	01/20/15 13:52	1
Selenium	<0.57		0.57	0.28	mg/Kg	☼	01/18/15 16:30	01/20/15 13:52	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	01/18/15 16:30	01/20/15 13:52	1
Sodium	1900		57	7.5	mg/Kg	☼	01/18/15 16:30	01/20/15 13:52	1
Thallium	1.1		0.57	0.28	mg/Kg	☼	01/18/15 16:30	01/20/15 13:52	1
Vanadium	24		0.28	0.083	mg/Kg	☼	01/18/15 16:30	01/20/15 13:52	1
Zinc	53	B	1.1	0.36	mg/Kg	☼	01/18/15 16:30	01/20/15 13:52	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		01/20/15 11:00	01/21/15 10:10	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		01/20/15 11:00	01/21/15 11:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	24		18	6.1	ug/Kg	☼	01/16/15 13:00	01/19/15 10:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.98		0.200	0.200	SU			01/19/15 13:14	1

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90849-1

Client Sample ID: FP-3(0-3)-011515

Lab Sample ID: 500-90849-3

Date Collected: 01/15/15 07:55

Matrix: Solid

Date Received: 01/16/15 07:25

Percent Solids: 83.7

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	49		6.0	2.6	ug/Kg	☼		01/20/15 12:49	1
Benzene	<6.0		6.0	0.82	ug/Kg	☼		01/20/15 12:49	1
Bromodichloromethane	<6.0		6.0	1.0	ug/Kg	☼		01/20/15 12:49	1
Bromoform	<6.0		6.0	1.4	ug/Kg	☼		01/20/15 12:49	1
Bromomethane	<6.0		6.0	1.8	ug/Kg	☼		01/20/15 12:49	1
Carbon disulfide	<6.0		6.0	0.89	ug/Kg	☼		01/20/15 12:49	1
Carbon tetrachloride	<6.0		6.0	1.1	ug/Kg	☼		01/20/15 12:49	1
Chlorobenzene	<6.0		6.0	0.61	ug/Kg	☼		01/20/15 12:49	1
Chloroethane	<6.0		6.0	1.6	ug/Kg	☼		01/20/15 12:49	1
Chloroform	<6.0		6.0	0.69	ug/Kg	☼		01/20/15 12:49	1
Chloromethane	<6.0		6.0	1.3	ug/Kg	☼		01/20/15 12:49	1
cis-1,2-Dichloroethene	<6.0		6.0	0.84	ug/Kg	☼		01/20/15 12:49	1
cis-1,3-Dichloropropene	<6.0		6.0	0.78	ug/Kg	☼		01/20/15 12:49	1
Dibromochloromethane	<6.0		6.0	1.0	ug/Kg	☼		01/20/15 12:49	1
1,1-Dichloroethane	<6.0		6.0	0.94	ug/Kg	☼		01/20/15 12:49	1
1,2-Dichloroethane	<6.0		6.0	0.88	ug/Kg	☼		01/20/15 12:49	1
1,1-Dichloroethene	<6.0		6.0	0.96	ug/Kg	☼		01/20/15 12:49	1
1,2-Dichloropropane	<6.0		6.0	0.91	ug/Kg	☼		01/20/15 12:49	1
1,3-Dichloropropene, Total	<6.0		6.0	0.78	ug/Kg	☼		01/20/15 12:49	1
Ethylbenzene	<6.0		6.0	1.2	ug/Kg	☼		01/20/15 12:49	1
2-Hexanone	<6.0		6.0	1.7	ug/Kg	☼		01/20/15 12:49	1
Methylene Chloride	<6.0		6.0	1.6	ug/Kg	☼		01/20/15 12:49	1
Methyl Ethyl Ketone	9.1		6.0	2.2	ug/Kg	☼		01/20/15 12:49	1
methyl isobutyl ketone	<6.0		6.0	1.6	ug/Kg	☼		01/20/15 12:49	1
Methyl tert-butyl ether	<6.0		6.0	0.99	ug/Kg	☼		01/20/15 12:49	1
Styrene	<6.0		6.0	0.78	ug/Kg	☼		01/20/15 12:49	1
1,1,1,2-Tetrachloroethane	<6.0		6.0	1.2	ug/Kg	☼		01/20/15 12:49	1
Tetrachloroethene	<6.0		6.0	0.91	ug/Kg	☼		01/20/15 12:49	1
Toluene	<6.0		6.0	0.84	ug/Kg	☼		01/20/15 12:49	1
trans-1,2-Dichloroethene	<6.0		6.0	0.82	ug/Kg	☼		01/20/15 12:49	1
trans-1,3-Dichloropropene	<6.0		6.0	1.1	ug/Kg	☼		01/20/15 12:49	1
1,1,1-Trichloroethane	<6.0		6.0	0.89	ug/Kg	☼		01/20/15 12:49	1
1,1,2-Trichloroethane	<6.0		6.0	0.81	ug/Kg	☼		01/20/15 12:49	1
Trichloroethene	<6.0		6.0	0.99	ug/Kg	☼		01/20/15 12:49	1
Vinyl chloride	<6.0		6.0	1.3	ug/Kg	☼		01/20/15 12:49	1
Xylenes, Total	<12		12	0.54	ug/Kg	☼		01/20/15 12:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122		01/20/15 12:49	1
Dibromofluoromethane	105		75 - 120		01/20/15 12:49	1
1,2-Dichloroethane-d4 (Surr)	111		70 - 134		01/20/15 12:49	1
Toluene-d8 (Surr)	95		75 - 122		01/20/15 12:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	41	ug/Kg	☼	01/23/15 07:44	01/26/15 13:35	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	01/23/15 07:44	01/26/15 13:35	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	01/23/15 07:44	01/26/15 13:35	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	01/23/15 07:44	01/26/15 13:35	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	01/23/15 07:44	01/26/15 13:35	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90849-1

Client Sample ID: FP-3(0-3)-011515

Lab Sample ID: 500-90849-3

Date Collected: 01/15/15 07:55

Matrix: Solid

Date Received: 01/16/15 07:25

Percent Solids: 83.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<380		380	86	ug/Kg	☼	01/23/15 07:44	01/26/15 13:35	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	01/23/15 07:44	01/26/15 13:35	1
2,4-Dichlorophenol	<380		380	90	ug/Kg	☼	01/23/15 07:44	01/26/15 13:35	1
2,4-Dimethylphenol	<380		380	140	ug/Kg	☼	01/23/15 07:44	01/26/15 13:35	1
2,4-Dinitrophenol	<760	*	760	660	ug/Kg	☼	01/23/15 07:44	01/26/15 13:35	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	01/23/15 07:44	01/26/15 13:35	1
2,6-Dinitrotoluene	<190		190	74	ug/Kg	☼	01/23/15 07:44	01/26/15 13:35	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	01/23/15 07:44	01/26/15 13:35	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	01/23/15 07:44	01/26/15 13:35	1
2-Methylnaphthalene	<38		38	6.9	ug/Kg	☼	01/23/15 07:44	01/26/15 13:35	1
2-Methylphenol	<190		190	61	ug/Kg	☼	01/23/15 07:44	01/26/15 13:35	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	01/23/15 07:44	01/26/15 13:35	1
2-Nitrophenol	<380		380	89	ug/Kg	☼	01/23/15 07:44	01/26/15 13:35	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	01/23/15 07:44	01/26/15 13:35	1
3,3'-Dichlorobenzidine	<190		190	53	ug/Kg	☼	01/23/15 07:44	01/26/15 13:35	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	01/23/15 07:44	01/26/15 13:35	1
4,6-Dinitro-2-methylphenol	<380	*	380	300	ug/Kg	☼	01/23/15 07:44	01/26/15 13:35	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	01/23/15 07:44	01/26/15 13:35	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	01/23/15 07:44	01/26/15 13:35	1
4-Chloroaniline	<760		760	180	ug/Kg	☼	01/23/15 07:44	01/26/15 13:35	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	01/23/15 07:44	01/26/15 13:35	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	01/23/15 07:44	01/26/15 13:35	1
4-Nitrophenol	<760		760	360	ug/Kg	☼	01/23/15 07:44	01/26/15 13:35	1
Acenaphthene	<38		38	6.8	ug/Kg	☼	01/23/15 07:44	01/26/15 13:35	1
Acenaphthylene	<38		38	5.0	ug/Kg	☼	01/23/15 07:44	01/26/15 13:35	1
Anthracene	<38		38	6.3	ug/Kg	☼	01/23/15 07:44	01/26/15 13:35	1
Benzo[a]anthracene	53		38	5.1	ug/Kg	☼	01/23/15 07:44	01/26/15 13:35	1
Benzo[a]pyrene	39		38	7.3	ug/Kg	☼	01/23/15 07:44	01/26/15 13:35	1
Benzo[b]fluoranthene	62		38	8.1	ug/Kg	☼	01/23/15 07:44	01/26/15 13:35	1
Benzo[g,h,i]perylene	15 J		38	12	ug/Kg	☼	01/23/15 07:44	01/26/15 13:35	1
Benzo[k]fluoranthene	22 J		38	11	ug/Kg	☼	01/23/15 07:44	01/26/15 13:35	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	01/23/15 07:44	01/26/15 13:35	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	01/23/15 07:44	01/26/15 13:35	1
Bis(2-ethylhexyl) phthalate	<190		190	69	ug/Kg	☼	01/23/15 07:44	01/26/15 13:35	1
Butyl benzyl phthalate	<190		190	72	ug/Kg	☼	01/23/15 07:44	01/26/15 13:35	1
Carbazole	<190		190	98	ug/Kg	☼	01/23/15 07:44	01/26/15 13:35	1
Chrysene	51		38	10	ug/Kg	☼	01/23/15 07:44	01/26/15 13:35	1
Dibenz(a,h)anthracene	7.7 J		38	7.3	ug/Kg	☼	01/23/15 07:44	01/26/15 13:35	1
Dibenzofuran	<190		190	44	ug/Kg	☼	01/23/15 07:44	01/26/15 13:35	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	01/23/15 07:44	01/26/15 13:35	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	01/23/15 07:44	01/26/15 13:35	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	01/23/15 07:44	01/26/15 13:35	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	01/23/15 07:44	01/26/15 13:35	1
Fluoranthene	100		38	7.0	ug/Kg	☼	01/23/15 07:44	01/26/15 13:35	1
Fluorene	<38		38	5.3	ug/Kg	☼	01/23/15 07:44	01/26/15 13:35	1
Hexachlorobenzene	<76		76	8.8	ug/Kg	☼	01/23/15 07:44	01/26/15 13:35	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	01/23/15 07:44	01/26/15 13:35	1
Hexachlorocyclopentadiene	<760	*	760	220	ug/Kg	☼	01/23/15 07:44	01/26/15 13:35	1
Hexachloroethane	<190		190	57	ug/Kg	☼	01/23/15 07:44	01/26/15 13:35	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90849-1

Client Sample ID: FP-3(0-3)-011515

Lab Sample ID: 500-90849-3

Date Collected: 01/15/15 07:55

Matrix: Solid

Date Received: 01/16/15 07:25

Percent Solids: 83.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	16	J	38	9.8	ug/Kg	☼	01/23/15 07:44	01/26/15 13:35	1
Isophorone	<190		190	42	ug/Kg	☼	01/23/15 07:44	01/26/15 13:35	1
Naphthalene	<38		38	5.8	ug/Kg	☼	01/23/15 07:44	01/26/15 13:35	1
Nitrobenzene	<38		38	9.4	ug/Kg	☼	01/23/15 07:44	01/26/15 13:35	1
N-Nitrosodi-n-propylamine	<190		190	46	ug/Kg	☼	01/23/15 07:44	01/26/15 13:35	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	01/23/15 07:44	01/26/15 13:35	1
Pentachlorophenol	<760 *		760	610	ug/Kg	☼	01/23/15 07:44	01/26/15 13:35	1
Phenanthrene	38		38	5.3	ug/Kg	☼	01/23/15 07:44	01/26/15 13:35	1
Phenol	<190		190	84	ug/Kg	☼	01/23/15 07:44	01/26/15 13:35	1
Pyrene	75		38	7.5	ug/Kg	☼	01/23/15 07:44	01/26/15 13:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	59		35 - 137				01/23/15 07:44	01/26/15 13:35	1
2-Fluorobiphenyl	54		25 - 119				01/23/15 07:44	01/26/15 13:35	1
2-Fluorophenol	61		25 - 110				01/23/15 07:44	01/26/15 13:35	1
Nitrobenzene-d5	55		25 - 115				01/23/15 07:44	01/26/15 13:35	1
Phenol-d5	61		31 - 110				01/23/15 07:44	01/26/15 13:35	1
Terphenyl-d14	63		36 - 134				01/23/15 07:44	01/26/15 13:35	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/19/15 08:00	01/21/15 18:40	1
Barium	0.34	J	0.50	0.050	mg/L		01/19/15 08:00	01/21/15 18:40	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/19/15 08:00	01/21/15 18:40	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/19/15 08:00	01/21/15 18:40	1
Chromium	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/21/15 18:40	1
Cobalt	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/21/15 18:40	1
Copper	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/21/15 18:40	1
Iron	<0.20		0.20	0.20	mg/L		01/19/15 08:00	01/21/15 18:40	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/19/15 08:00	01/21/15 18:40	1
Manganese	10		0.025	0.010	mg/L		01/19/15 08:00	01/21/15 18:40	1
Nickel	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/21/15 18:40	1
Selenium	<0.050		0.050	0.020	mg/L		01/19/15 08:00	01/21/15 18:40	1
Silver	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/21/15 18:40	1
Zinc	0.020	J	0.10	0.020	mg/L		01/19/15 08:00	01/21/15 18:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.082		0.050	0.010	mg/L		01/20/15 08:30	01/21/15 13:33	1
Barium	0.87		0.50	0.050	mg/L		01/20/15 08:30	01/21/15 13:33	1
Beryllium	0.0093		0.0040	0.0040	mg/L		01/20/15 08:30	01/21/15 13:33	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/20/15 08:30	01/21/15 13:33	1
Chromium	0.27		0.025	0.010	mg/L		01/20/15 08:30	01/21/15 13:33	1
Cobalt	0.090		0.025	0.010	mg/L		01/20/15 08:30	01/21/15 13:33	1
Copper	0.25		0.025	0.010	mg/L		01/20/15 08:30	01/21/15 13:33	1
Iron	280		0.20	0.20	mg/L		01/20/15 08:30	01/21/15 13:33	1
Lead	0.13		0.0075	0.0075	mg/L		01/20/15 08:30	01/21/15 13:33	1
Manganese	3.3		0.025	0.010	mg/L		01/20/15 08:30	01/21/15 13:33	1
Nickel	0.25		0.025	0.010	mg/L		01/20/15 08:30	01/21/15 13:33	1
Selenium	<0.050		0.050	0.020	mg/L		01/20/15 08:30	01/21/15 13:33	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90849-1

Client Sample ID: FP-3(0-3)-011515

Lab Sample ID: 500-90849-3

Date Collected: 01/15/15 07:55

Matrix: Solid

Date Received: 01/16/15 07:25

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		01/20/15 08:30	01/21/15 13:33	1
Zinc	0.65		0.10	0.020	mg/L		01/20/15 08:30	01/21/15 13:33	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.48	J	1.1	0.23	mg/Kg	☼	01/18/15 16:30	01/20/15 14:30	1
Arsenic	6.9		0.54	0.25	mg/Kg	☼	01/18/15 16:30	01/20/15 14:30	1
Barium	50		0.54	0.099	mg/Kg	☼	01/18/15 16:30	01/20/15 14:30	1
Beryllium	0.65		0.22	0.047	mg/Kg	☼	01/18/15 16:30	01/20/15 14:30	1
Cadmium	0.26		0.11	0.031	mg/Kg	☼	01/18/15 16:30	01/20/15 14:30	1
Calcium	28000		11	3.5	mg/Kg	☼	01/18/15 16:30	01/20/15 14:30	1
Chromium	18		0.54	0.093	mg/Kg	☼	01/18/15 16:30	01/20/15 14:30	1
Cobalt	8.1		0.27	0.061	mg/Kg	☼	01/18/15 16:30	01/20/15 14:30	1
Copper	19	B	0.54	0.12	mg/Kg	☼	01/18/15 16:30	01/20/15 14:30	1
Iron	20000		11	4.2	mg/Kg	☼	01/18/15 16:30	01/20/15 14:30	1
Lead	13		0.27	0.14	mg/Kg	☼	01/18/15 16:30	01/20/15 14:30	1
Magnesium	20000		5.4	2.2	mg/Kg	☼	01/18/15 16:30	01/20/15 14:30	1
Manganese	440		0.54	0.11	mg/Kg	☼	01/18/15 16:30	01/20/15 14:30	1
Nickel	19		0.54	0.15	mg/Kg	☼	01/18/15 16:30	01/20/15 14:30	1
Potassium	2000		27	4.4	mg/Kg	☼	01/18/15 16:30	01/20/15 14:30	1
Selenium	<0.54		0.54	0.27	mg/Kg	☼	01/18/15 16:30	01/20/15 14:30	1
Silver	<0.27		0.27	0.064	mg/Kg	☼	01/18/15 16:30	01/20/15 14:30	1
Sodium	1600		54	7.2	mg/Kg	☼	01/18/15 16:30	01/20/15 14:30	1
Thallium	0.66		0.54	0.27	mg/Kg	☼	01/18/15 16:30	01/20/15 14:30	1
Vanadium	30		0.27	0.079	mg/Kg	☼	01/18/15 16:30	01/20/15 14:30	1
Zinc	47	B	1.1	0.34	mg/Kg	☼	01/18/15 16:30	01/20/15 14:30	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		01/20/15 11:00	01/21/15 10:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.21		0.20	0.20	ug/L		01/20/15 11:00	01/21/15 12:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	34		19	6.6	ug/Kg	☼	01/16/15 13:00	01/19/15 10:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.19		0.200	0.200	SU			01/19/15 13:22	1

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90849-1

Client Sample ID: FP-2(0-3)-011515

Lab Sample ID: 500-90849-4

Date Collected: 01/15/15 08:50

Matrix: Solid

Date Received: 01/16/15 07:25

Percent Solids: 84.5

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	11		5.9	2.6	ug/Kg	☼		01/20/15 13:13	1
Benzene	<5.9		5.9	0.81	ug/Kg	☼		01/20/15 13:13	1
Bromodichloromethane	<5.9		5.9	1.0	ug/Kg	☼		01/20/15 13:13	1
Bromoform	<5.9		5.9	1.4	ug/Kg	☼		01/20/15 13:13	1
Bromomethane	<5.9		5.9	1.8	ug/Kg	☼		01/20/15 13:13	1
Carbon disulfide	<5.9		5.9	0.88	ug/Kg	☼		01/20/15 13:13	1
Carbon tetrachloride	<5.9		5.9	1.1	ug/Kg	☼		01/20/15 13:13	1
Chlorobenzene	<5.9		5.9	0.60	ug/Kg	☼		01/20/15 13:13	1
Chloroethane	<5.9		5.9	1.6	ug/Kg	☼		01/20/15 13:13	1
Chloroform	<5.9		5.9	0.68	ug/Kg	☼		01/20/15 13:13	1
Chloromethane	<5.9		5.9	1.2	ug/Kg	☼		01/20/15 13:13	1
cis-1,2-Dichloroethene	<5.9		5.9	0.84	ug/Kg	☼		01/20/15 13:13	1
cis-1,3-Dichloropropene	<5.9		5.9	0.78	ug/Kg	☼		01/20/15 13:13	1
Dibromochloromethane	<5.9		5.9	1.0	ug/Kg	☼		01/20/15 13:13	1
1,1-Dichloroethane	<5.9		5.9	0.94	ug/Kg	☼		01/20/15 13:13	1
1,2-Dichloroethane	<5.9		5.9	0.88	ug/Kg	☼		01/20/15 13:13	1
1,1-Dichloroethene	<5.9		5.9	0.96	ug/Kg	☼		01/20/15 13:13	1
1,2-Dichloropropane	<5.9		5.9	0.90	ug/Kg	☼		01/20/15 13:13	1
1,3-Dichloropropene, Total	<5.9		5.9	0.78	ug/Kg	☼		01/20/15 13:13	1
Ethylbenzene	<5.9		5.9	1.2	ug/Kg	☼		01/20/15 13:13	1
2-Hexanone	<5.9		5.9	1.7	ug/Kg	☼		01/20/15 13:13	1
Methylene Chloride	<5.9		5.9	1.6	ug/Kg	☼		01/20/15 13:13	1
Methyl Ethyl Ketone	<5.9		5.9	2.1	ug/Kg	☼		01/20/15 13:13	1
methyl isobutyl ketone	<5.9		5.9	1.6	ug/Kg	☼		01/20/15 13:13	1
Methyl tert-butyl ether	<5.9		5.9	0.98	ug/Kg	☼		01/20/15 13:13	1
Styrene	<5.9		5.9	0.78	ug/Kg	☼		01/20/15 13:13	1
1,1,1,2-Tetrachloroethane	<5.9		5.9	1.2	ug/Kg	☼		01/20/15 13:13	1
Tetrachloroethene	<5.9		5.9	0.90	ug/Kg	☼		01/20/15 13:13	1
Toluene	<5.9		5.9	0.83	ug/Kg	☼		01/20/15 13:13	1
trans-1,2-Dichloroethene	<5.9		5.9	0.81	ug/Kg	☼		01/20/15 13:13	1
trans-1,3-Dichloropropene	<5.9		5.9	1.1	ug/Kg	☼		01/20/15 13:13	1
1,1,1-Trichloroethane	<5.9		5.9	0.88	ug/Kg	☼		01/20/15 13:13	1
1,1,2-Trichloroethane	<5.9		5.9	0.81	ug/Kg	☼		01/20/15 13:13	1
Trichloroethene	<5.9		5.9	0.98	ug/Kg	☼		01/20/15 13:13	1
Vinyl chloride	<5.9		5.9	1.2	ug/Kg	☼		01/20/15 13:13	1
Xylenes, Total	<12		12	0.54	ug/Kg	☼		01/20/15 13:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 122		01/20/15 13:13	1
Dibromofluoromethane	105		75 - 120		01/20/15 13:13	1
1,2-Dichloroethane-d4 (Surr)	116		70 - 134		01/20/15 13:13	1
Toluene-d8 (Surr)	95		75 - 122		01/20/15 13:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	42	ug/Kg	☼	01/16/15 15:52	01/21/15 12:51	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	01/16/15 15:52	01/21/15 12:51	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	01/16/15 15:52	01/21/15 12:51	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	01/16/15 15:52	01/21/15 12:51	1
2,2'-oxybis[1-chloropropane]	<190		190	45	ug/Kg	☼	01/16/15 15:52	01/21/15 12:51	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90849-1

Client Sample ID: FP-2(0-3)-011515

Lab Sample ID: 500-90849-4

Date Collected: 01/15/15 08:50

Matrix: Solid

Date Received: 01/16/15 07:25

Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<380		380	88	ug/Kg	☼	01/16/15 15:52	01/21/15 12:51	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	01/16/15 15:52	01/21/15 12:51	1
2,4-Dichlorophenol	<380		380	92	ug/Kg	☼	01/16/15 15:52	01/21/15 12:51	1
2,4-Dimethylphenol	<380		380	150	ug/Kg	☼	01/16/15 15:52	01/21/15 12:51	1
2,4-Dinitrophenol	<780	*	780	680	ug/Kg	☼	01/16/15 15:52	01/21/15 12:51	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	01/16/15 15:52	01/21/15 12:51	1
2,6-Dinitrotoluene	<190		190	76	ug/Kg	☼	01/16/15 15:52	01/21/15 12:51	1
2-Chloronaphthalene	<190		190	43	ug/Kg	☼	01/16/15 15:52	01/21/15 12:51	1
2-Chlorophenol	<190		190	66	ug/Kg	☼	01/16/15 15:52	01/21/15 12:51	1
2-Methylnaphthalene	<38		38	7.1	ug/Kg	☼	01/16/15 15:52	01/21/15 12:51	1
2-Methylphenol	<190		190	62	ug/Kg	☼	01/16/15 15:52	01/21/15 12:51	1
2-Nitroaniline	<190		190	52	ug/Kg	☼	01/16/15 15:52	01/21/15 12:51	1
2-Nitrophenol	<380		380	91	ug/Kg	☼	01/16/15 15:52	01/21/15 12:51	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	☼	01/16/15 15:52	01/21/15 12:51	1
3,3'-Dichlorobenzidine	<190		190	54	ug/Kg	☼	01/16/15 15:52	01/21/15 12:51	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	01/16/15 15:52	01/21/15 12:51	1
4,6-Dinitro-2-methylphenol	<380		380	310	ug/Kg	☼	01/16/15 15:52	01/21/15 12:51	1
4-Bromophenyl phenyl ether	<190		190	51	ug/Kg	☼	01/16/15 15:52	01/21/15 12:51	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	01/16/15 15:52	01/21/15 12:51	1
4-Chloroaniline	<780		780	180	ug/Kg	☼	01/16/15 15:52	01/21/15 12:51	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	01/16/15 15:52	01/21/15 12:51	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	01/16/15 15:52	01/21/15 12:51	1
4-Nitrophenol	<780		780	370	ug/Kg	☼	01/16/15 15:52	01/21/15 12:51	1
Acenaphthene	<38		38	6.9	ug/Kg	☼	01/16/15 15:52	01/21/15 12:51	1
Acenaphthylene	<38		38	5.1	ug/Kg	☼	01/16/15 15:52	01/21/15 12:51	1
Anthracene	<38		38	6.4	ug/Kg	☼	01/16/15 15:52	01/21/15 12:51	1
Benzo[a]anthracene	<38		38	5.2	ug/Kg	☼	01/16/15 15:52	01/21/15 12:51	1
Benzo[a]pyrene	<38		38	7.5	ug/Kg	☼	01/16/15 15:52	01/21/15 12:51	1
Benzo[b]fluoranthene	<38		38	8.3	ug/Kg	☼	01/16/15 15:52	01/21/15 12:51	1
Benzo[g,h,i]perylene	<38		38	12	ug/Kg	☼	01/16/15 15:52	01/21/15 12:51	1
Benzo[k]fluoranthene	<38		38	11	ug/Kg	☼	01/16/15 15:52	01/21/15 12:51	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	01/16/15 15:52	01/21/15 12:51	1
Bis(2-chloroethyl)ether	<190		190	58	ug/Kg	☼	01/16/15 15:52	01/21/15 12:51	1
Bis(2-ethylhexyl) phthalate	<190		190	71	ug/Kg	☼	01/16/15 15:52	01/21/15 12:51	1
Butyl benzyl phthalate	<190		190	73	ug/Kg	☼	01/16/15 15:52	01/21/15 12:51	1
Carbazole	<190		190	100	ug/Kg	☼	01/16/15 15:52	01/21/15 12:51	1
Chrysene	<38		38	11	ug/Kg	☼	01/16/15 15:52	01/21/15 12:51	1
Dibenz(a,h)anthracene	<38		38	7.5	ug/Kg	☼	01/16/15 15:52	01/21/15 12:51	1
Dibenzofuran	<190		190	45	ug/Kg	☼	01/16/15 15:52	01/21/15 12:51	1
Diethyl phthalate	<190		190	65	ug/Kg	☼	01/16/15 15:52	01/21/15 12:51	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	01/16/15 15:52	01/21/15 12:51	1
Di-n-butyl phthalate	<190		190	59	ug/Kg	☼	01/16/15 15:52	01/21/15 12:51	1
Di-n-octyl phthalate	<190		190	63	ug/Kg	☼	01/16/15 15:52	01/21/15 12:51	1
Fluoranthene	<38		38	7.2	ug/Kg	☼	01/16/15 15:52	01/21/15 12:51	1
Fluorene	<38		38	5.4	ug/Kg	☼	01/16/15 15:52	01/21/15 12:51	1
Hexachlorobenzene	<78		78	8.9	ug/Kg	☼	01/16/15 15:52	01/21/15 12:51	1
Hexachlorobutadiene	<190		190	61	ug/Kg	☼	01/16/15 15:52	01/21/15 12:51	1
Hexachlorocyclopentadiene	<780		780	220	ug/Kg	☼	01/16/15 15:52	01/21/15 12:51	1
Hexachloroethane	<190		190	59	ug/Kg	☼	01/16/15 15:52	01/21/15 12:51	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90849-1

Client Sample ID: FP-2(0-3)-011515

Lab Sample ID: 500-90849-4

Date Collected: 01/15/15 08:50

Matrix: Solid

Date Received: 01/16/15 07:25

Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<38		38	10	ug/Kg	☆	01/16/15 15:52	01/21/15 12:51	1
Isophorone	<190		190	43	ug/Kg	☆	01/16/15 15:52	01/21/15 12:51	1
Naphthalene	<38		38	5.9	ug/Kg	☆	01/16/15 15:52	01/21/15 12:51	1
Nitrobenzene	<38		38	9.6	ug/Kg	☆	01/16/15 15:52	01/21/15 12:51	1
N-Nitrosodi-n-propylamine	<190		190	47	ug/Kg	☆	01/16/15 15:52	01/21/15 12:51	1
N-Nitrosodiphenylamine	<190		190	46	ug/Kg	☆	01/16/15 15:52	01/21/15 12:51	1
Pentachlorophenol	<780		780	620	ug/Kg	☆	01/16/15 15:52	01/21/15 12:51	1
Phenanthrene	<38		38	5.4	ug/Kg	☆	01/16/15 15:52	01/21/15 12:51	1
Phenol	<190		190	86	ug/Kg	☆	01/16/15 15:52	01/21/15 12:51	1
Pyrene	<38		38	7.7	ug/Kg	☆	01/16/15 15:52	01/21/15 12:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	58		35 - 137	01/16/15 15:52	01/21/15 12:51	1
2-Fluorobiphenyl	45		25 - 119	01/16/15 15:52	01/21/15 12:51	1
2-Fluorophenol	57		25 - 110	01/16/15 15:52	01/21/15 12:51	1
Nitrobenzene-d5	52		25 - 115	01/16/15 15:52	01/21/15 12:51	1
Phenol-d5	48		31 - 110	01/16/15 15:52	01/21/15 12:51	1
Terphenyl-d14	79		36 - 134	01/16/15 15:52	01/21/15 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		01/19/15 08:00	01/21/15 18:46	1
Barium	0.30	J	0.50	0.050	mg/L		01/19/15 08:00	01/21/15 18:46	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/19/15 08:00	01/21/15 18:46	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/19/15 08:00	01/21/15 18:46	1
Chromium	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/21/15 18:46	1
Cobalt	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/21/15 18:46	1
Copper	0.017	J	0.025	0.010	mg/L		01/19/15 08:00	01/21/15 18:46	1
Iron	<0.20		0.20	0.20	mg/L		01/19/15 08:00	01/21/15 18:46	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/19/15 08:00	01/21/15 18:46	1
Manganese	0.79		0.025	0.010	mg/L		01/19/15 08:00	01/21/15 18:46	1
Nickel	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/21/15 18:46	1
Selenium	<0.050		0.050	0.020	mg/L		01/19/15 08:00	01/21/15 18:46	1
Silver	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/21/15 18:46	1
Zinc	0.053	J	0.10	0.020	mg/L		01/19/15 08:00	01/21/15 18:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.030	J	0.050	0.010	mg/L		01/20/15 08:30	01/21/15 13:39	1
Barium	0.34	J	0.50	0.050	mg/L		01/20/15 08:30	01/21/15 13:39	1
Beryllium	0.0047		0.0040	0.0040	mg/L		01/20/15 08:30	01/21/15 13:39	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/20/15 08:30	01/21/15 13:39	1
Chromium	0.11		0.025	0.010	mg/L		01/20/15 08:30	01/21/15 13:39	1
Cobalt	0.030		0.025	0.010	mg/L		01/20/15 08:30	01/21/15 13:39	1
Copper	0.16		0.025	0.010	mg/L		01/20/15 08:30	01/21/15 13:39	1
Iron	90		0.20	0.20	mg/L		01/20/15 08:30	01/21/15 13:39	1
Lead	0.047		0.0075	0.0075	mg/L		01/20/15 08:30	01/21/15 13:39	1
Manganese	0.66		0.025	0.010	mg/L		01/20/15 08:30	01/21/15 13:39	1
Nickel	0.12		0.025	0.010	mg/L		01/20/15 08:30	01/21/15 13:39	1
Selenium	<0.050		0.050	0.020	mg/L		01/20/15 08:30	01/21/15 13:39	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90849-1

Client Sample ID: FP-2(0-3)-011515

Lab Sample ID: 500-90849-4

Date Collected: 01/15/15 08:50

Matrix: Solid

Date Received: 01/16/15 07:25

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		01/20/15 08:30	01/21/15 13:39	1
Zinc	0.24		0.10	0.020	mg/L		01/20/15 08:30	01/21/15 13:39	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	☼	01/18/15 16:30	01/20/15 14:36	1
Arsenic	5.5		0.58	0.27	mg/Kg	☼	01/18/15 16:30	01/20/15 14:36	1
Barium	58		0.58	0.11	mg/Kg	☼	01/18/15 16:30	01/20/15 14:36	1
Beryllium	0.77		0.23	0.050	mg/Kg	☼	01/18/15 16:30	01/20/15 14:36	1
Cadmium	0.39		0.12	0.034	mg/Kg	☼	01/18/15 16:30	01/20/15 14:36	1
Calcium	85000		120	37	mg/Kg	☼	01/18/15 16:30	01/21/15 14:49	10
Chromium	22		0.58	0.10	mg/Kg	☼	01/18/15 16:30	01/20/15 14:36	1
Cobalt	11		0.29	0.065	mg/Kg	☼	01/18/15 16:30	01/20/15 14:36	1
Copper	23	B	0.58	0.13	mg/Kg	☼	01/18/15 16:30	01/20/15 14:36	1
Iron	20000		12	4.5	mg/Kg	☼	01/18/15 16:30	01/20/15 14:36	1
Lead	16		0.29	0.14	mg/Kg	☼	01/18/15 16:30	01/20/15 14:36	1
Magnesium	35000		5.8	2.4	mg/Kg	☼	01/18/15 16:30	01/20/15 14:36	1
Manganese	490		0.58	0.11	mg/Kg	☼	01/18/15 16:30	01/20/15 14:36	1
Nickel	27		0.58	0.16	mg/Kg	☼	01/18/15 16:30	01/20/15 14:36	1
Potassium	4300		29	4.7	mg/Kg	☼	01/18/15 16:30	01/20/15 14:36	1
Selenium	<0.58		0.58	0.29	mg/Kg	☼	01/18/15 16:30	01/20/15 14:36	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	01/18/15 16:30	01/20/15 14:36	1
Sodium	1700		58	7.6	mg/Kg	☼	01/18/15 16:30	01/20/15 14:36	1
Thallium	0.86		0.58	0.28	mg/Kg	☼	01/18/15 16:30	01/20/15 14:36	1
Vanadium	25		0.29	0.085	mg/Kg	☼	01/18/15 16:30	01/20/15 14:36	1
Zinc	44	B	1.2	0.37	mg/Kg	☼	01/18/15 16:30	01/20/15 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		01/20/15 11:00	01/21/15 10:15	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		01/20/15 11:00	01/21/15 12:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	14	J	18	6.4	ug/Kg	☼	01/19/15 14:30	01/20/15 11:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.11		0.200	0.200	SU			01/19/15 13:27	1

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90849-1

Client Sample ID: FP-2(0-3)-011515D

Lab Sample ID: 500-90849-5

Date Collected: 01/15/15 08:50

Matrix: Solid

Date Received: 01/16/15 07:25

Percent Solids: 85.2

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.9		5.9	2.5	ug/Kg	*		01/20/15 13:37	1
Benzene	<5.9		5.9	0.80	ug/Kg	*		01/20/15 13:37	1
Bromodichloromethane	<5.9		5.9	1.0	ug/Kg	*		01/20/15 13:37	1
Bromoform	<5.9		5.9	1.3	ug/Kg	*		01/20/15 13:37	1
Bromomethane	<5.9		5.9	1.8	ug/Kg	*		01/20/15 13:37	1
Carbon disulfide	<5.9		5.9	0.88	ug/Kg	*		01/20/15 13:37	1
Carbon tetrachloride	<5.9		5.9	1.1	ug/Kg	*		01/20/15 13:37	1
Chlorobenzene	<5.9		5.9	0.59	ug/Kg	*		01/20/15 13:37	1
Chloroethane	<5.9		5.9	1.6	ug/Kg	*		01/20/15 13:37	1
Chloroform	<5.9		5.9	0.67	ug/Kg	*		01/20/15 13:37	1
Chloromethane	<5.9		5.9	1.2	ug/Kg	*		01/20/15 13:37	1
cis-1,2-Dichloroethene	<5.9		5.9	0.83	ug/Kg	*		01/20/15 13:37	1
cis-1,3-Dichloropropene	<5.9		5.9	0.77	ug/Kg	*		01/20/15 13:37	1
Dibromochloromethane	<5.9		5.9	1.0	ug/Kg	*		01/20/15 13:37	1
1,1-Dichloroethane	<5.9		5.9	0.93	ug/Kg	*		01/20/15 13:37	1
1,2-Dichloroethane	<5.9		5.9	0.87	ug/Kg	*		01/20/15 13:37	1
1,1-Dichloroethene	<5.9		5.9	0.95	ug/Kg	*		01/20/15 13:37	1
1,2-Dichloropropane	<5.9		5.9	0.89	ug/Kg	*		01/20/15 13:37	1
1,3-Dichloropropene, Total	<5.9		5.9	0.77	ug/Kg	*		01/20/15 13:37	1
Ethylbenzene	<5.9		5.9	1.2	ug/Kg	*		01/20/15 13:37	1
2-Hexanone	<5.9		5.9	1.7	ug/Kg	*		01/20/15 13:37	1
Methylene Chloride	<5.9		5.9	1.6	ug/Kg	*		01/20/15 13:37	1
Methyl Ethyl Ketone	<5.9		5.9	2.1	ug/Kg	*		01/20/15 13:37	1
methyl isobutyl ketone	<5.9		5.9	1.5	ug/Kg	*		01/20/15 13:37	1
Methyl tert-butyl ether	<5.9		5.9	0.97	ug/Kg	*		01/20/15 13:37	1
Styrene	<5.9		5.9	0.77	ug/Kg	*		01/20/15 13:37	1
1,1,1,2-Tetrachloroethane	<5.9		5.9	1.2	ug/Kg	*		01/20/15 13:37	1
Tetrachloroethene	<5.9		5.9	0.90	ug/Kg	*		01/20/15 13:37	1
Toluene	<5.9		5.9	0.82	ug/Kg	*		01/20/15 13:37	1
trans-1,2-Dichloroethene	<5.9		5.9	0.81	ug/Kg	*		01/20/15 13:37	1
trans-1,3-Dichloropropene	<5.9		5.9	1.1	ug/Kg	*		01/20/15 13:37	1
1,1,1-Trichloroethane	<5.9		5.9	0.88	ug/Kg	*		01/20/15 13:37	1
1,1,2-Trichloroethane	<5.9		5.9	0.80	ug/Kg	*		01/20/15 13:37	1
Trichloroethene	<5.9		5.9	0.97	ug/Kg	*		01/20/15 13:37	1
Vinyl chloride	<5.9		5.9	1.2	ug/Kg	*		01/20/15 13:37	1
Xylenes, Total	<12		12	0.53	ug/Kg	*		01/20/15 13:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122		01/20/15 13:37	1
Dibromofluoromethane	105		75 - 120		01/20/15 13:37	1
1,2-Dichloroethane-d4 (Surr)	111		70 - 134		01/20/15 13:37	1
Toluene-d8 (Surr)	94		75 - 122		01/20/15 13:37	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	*	01/16/15 15:52	01/21/15 13:12	1
1,2-Dichlorobenzene	<200		200	46	ug/Kg	*	01/16/15 15:52	01/21/15 13:12	1
1,3-Dichlorobenzene	<200		200	44	ug/Kg	*	01/16/15 15:52	01/21/15 13:12	1
1,4-Dichlorobenzene	<200		200	50	ug/Kg	*	01/16/15 15:52	01/21/15 13:12	1
2,2'-oxybis[1-chloropropane]	<200		200	45	ug/Kg	*	01/16/15 15:52	01/21/15 13:12	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90849-1

Client Sample ID: FP-2(0-3)-011515D

Lab Sample ID: 500-90849-5

Date Collected: 01/15/15 08:50

Matrix: Solid

Date Received: 01/16/15 07:25

Percent Solids: 85.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<390		390	89	ug/Kg	*	01/16/15 15:52	01/21/15 13:12	1
2,4,6-Trichlorophenol	<390		390	130	ug/Kg	*	01/16/15 15:52	01/21/15 13:12	1
2,4-Dichlorophenol	<390		390	92	ug/Kg	*	01/16/15 15:52	01/21/15 13:12	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	*	01/16/15 15:52	01/21/15 13:12	1
2,4-Dinitrophenol	<780	*	780	680	ug/Kg	*	01/16/15 15:52	01/21/15 13:12	1
2,4-Dinitrotoluene	<200		200	62	ug/Kg	*	01/16/15 15:52	01/21/15 13:12	1
2,6-Dinitrotoluene	<200		200	76	ug/Kg	*	01/16/15 15:52	01/21/15 13:12	1
2-Chloronaphthalene	<200		200	43	ug/Kg	*	01/16/15 15:52	01/21/15 13:12	1
2-Chlorophenol	<200		200	66	ug/Kg	*	01/16/15 15:52	01/21/15 13:12	1
2-Methylnaphthalene	<39		39	7.1	ug/Kg	*	01/16/15 15:52	01/21/15 13:12	1
2-Methylphenol	<200		200	62	ug/Kg	*	01/16/15 15:52	01/21/15 13:12	1
2-Nitroaniline	<200		200	52	ug/Kg	*	01/16/15 15:52	01/21/15 13:12	1
2-Nitrophenol	<390		390	92	ug/Kg	*	01/16/15 15:52	01/21/15 13:12	1
3 & 4 Methylphenol	<200		200	65	ug/Kg	*	01/16/15 15:52	01/21/15 13:12	1
3,3'-Dichlorobenzidine	<200		200	54	ug/Kg	*	01/16/15 15:52	01/21/15 13:12	1
3-Nitroaniline	<390		390	120	ug/Kg	*	01/16/15 15:52	01/21/15 13:12	1
4,6-Dinitro-2-methylphenol	<390		390	310	ug/Kg	*	01/16/15 15:52	01/21/15 13:12	1
4-Bromophenyl phenyl ether	<200		200	51	ug/Kg	*	01/16/15 15:52	01/21/15 13:12	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	*	01/16/15 15:52	01/21/15 13:12	1
4-Chloroaniline	<780		780	180	ug/Kg	*	01/16/15 15:52	01/21/15 13:12	1
4-Chlorophenyl phenyl ether	<200		200	45	ug/Kg	*	01/16/15 15:52	01/21/15 13:12	1
4-Nitroaniline	<390		390	160	ug/Kg	*	01/16/15 15:52	01/21/15 13:12	1
4-Nitrophenol	<780		780	370	ug/Kg	*	01/16/15 15:52	01/21/15 13:12	1
Acenaphthene	<39		39	7.0	ug/Kg	*	01/16/15 15:52	01/21/15 13:12	1
Acenaphthylene	<39		39	5.1	ug/Kg	*	01/16/15 15:52	01/21/15 13:12	1
Anthracene	<39		39	6.5	ug/Kg	*	01/16/15 15:52	01/21/15 13:12	1
Benzo[a]anthracene	<39		39	5.2	ug/Kg	*	01/16/15 15:52	01/21/15 13:12	1
Benzo[a]pyrene	<39		39	7.5	ug/Kg	*	01/16/15 15:52	01/21/15 13:12	1
Benzo[b]fluoranthene	11	J	39	8.4	ug/Kg	*	01/16/15 15:52	01/21/15 13:12	1
Benzo[g,h,i]perylene	<39		39	13	ug/Kg	*	01/16/15 15:52	01/21/15 13:12	1
Benzo[k]fluoranthene	<39		39	11	ug/Kg	*	01/16/15 15:52	01/21/15 13:12	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	*	01/16/15 15:52	01/21/15 13:12	1
Bis(2-chloroethyl)ether	<200		200	58	ug/Kg	*	01/16/15 15:52	01/21/15 13:12	1
Bis(2-ethylhexyl) phthalate	<200		200	71	ug/Kg	*	01/16/15 15:52	01/21/15 13:12	1
Butyl benzyl phthalate	<200		200	74	ug/Kg	*	01/16/15 15:52	01/21/15 13:12	1
Carbazole	<200		200	100	ug/Kg	*	01/16/15 15:52	01/21/15 13:12	1
Chrysene	<39		39	11	ug/Kg	*	01/16/15 15:52	01/21/15 13:12	1
Dibenz(a,h)anthracene	<39		39	7.5	ug/Kg	*	01/16/15 15:52	01/21/15 13:12	1
Dibenzofuran	<200		200	45	ug/Kg	*	01/16/15 15:52	01/21/15 13:12	1
Diethyl phthalate	<200		200	66	ug/Kg	*	01/16/15 15:52	01/21/15 13:12	1
Dimethyl phthalate	<200		200	51	ug/Kg	*	01/16/15 15:52	01/21/15 13:12	1
Di-n-butyl phthalate	<200		200	59	ug/Kg	*	01/16/15 15:52	01/21/15 13:12	1
Di-n-octyl phthalate	<200		200	63	ug/Kg	*	01/16/15 15:52	01/21/15 13:12	1
Fluoranthene	<39		39	7.2	ug/Kg	*	01/16/15 15:52	01/21/15 13:12	1
Fluorene	<39		39	5.5	ug/Kg	*	01/16/15 15:52	01/21/15 13:12	1
Hexachlorobenzene	<78		78	9.0	ug/Kg	*	01/16/15 15:52	01/21/15 13:12	1
Hexachlorobutadiene	<200		200	61	ug/Kg	*	01/16/15 15:52	01/21/15 13:12	1
Hexachlorocyclopentadiene	<780		780	220	ug/Kg	*	01/16/15 15:52	01/21/15 13:12	1
Hexachloroethane	<200		200	59	ug/Kg	*	01/16/15 15:52	01/21/15 13:12	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90849-1

Client Sample ID: FP-2(0-3)-011515D

Lab Sample ID: 500-90849-5

Date Collected: 01/15/15 08:50

Matrix: Solid

Date Received: 01/16/15 07:25

Percent Solids: 85.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<39		39	10	ug/Kg	*	01/16/15 15:52	01/21/15 13:12	1
Isophorone	<200		200	44	ug/Kg	*	01/16/15 15:52	01/21/15 13:12	1
Naphthalene	<39		39	6.0	ug/Kg	*	01/16/15 15:52	01/21/15 13:12	1
Nitrobenzene	<39		39	9.7	ug/Kg	*	01/16/15 15:52	01/21/15 13:12	1
N-Nitrosodi-n-propylamine	<200		200	47	ug/Kg	*	01/16/15 15:52	01/21/15 13:12	1
N-Nitrosodiphenylamine	<200		200	46	ug/Kg	*	01/16/15 15:52	01/21/15 13:12	1
Pentachlorophenol	<780		780	620	ug/Kg	*	01/16/15 15:52	01/21/15 13:12	1
Phenanthrene	<39		39	5.4	ug/Kg	*	01/16/15 15:52	01/21/15 13:12	1
Phenol	<200		200	86	ug/Kg	*	01/16/15 15:52	01/21/15 13:12	1
Pyrene	<39		39	7.7	ug/Kg	*	01/16/15 15:52	01/21/15 13:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	33	X	35 - 137				01/16/15 15:52	01/21/15 13:12	1
2-Fluorobiphenyl	31		25 - 119				01/16/15 15:52	01/21/15 13:12	1
2-Fluorophenol	41		25 - 110				01/16/15 15:52	01/21/15 13:12	1
Nitrobenzene-d5	37		25 - 115				01/16/15 15:52	01/21/15 13:12	1
Phenol-d5	39		31 - 110				01/16/15 15:52	01/21/15 13:12	1
Terphenyl-d14	52		36 - 134				01/16/15 15:52	01/21/15 13:12	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		01/19/15 08:00	01/21/15 18:52	1
Barium	0.27	J	0.50	0.050	mg/L		01/19/15 08:00	01/21/15 18:52	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/19/15 08:00	01/21/15 18:52	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/19/15 08:00	01/21/15 18:52	1
Chromium	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/21/15 18:52	1
Cobalt	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/21/15 18:52	1
Copper	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/21/15 18:52	1
Iron	<0.20		0.20	0.20	mg/L		01/19/15 08:00	01/21/15 18:52	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/19/15 08:00	01/21/15 18:52	1
Manganese	0.74		0.025	0.010	mg/L		01/19/15 08:00	01/21/15 18:52	1
Nickel	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/21/15 18:52	1
Selenium	<0.050		0.050	0.020	mg/L		01/19/15 08:00	01/21/15 18:52	1
Silver	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/21/15 18:52	1
Zinc	<0.10		0.10	0.020	mg/L		01/19/15 08:00	01/21/15 18:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.043	J	0.050	0.010	mg/L		01/20/15 08:30	01/21/15 13:46	1
Barium	0.47	J	0.50	0.050	mg/L		01/20/15 08:30	01/21/15 13:46	1
Beryllium	0.0066		0.0040	0.0040	mg/L		01/20/15 08:30	01/21/15 13:46	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/20/15 08:30	01/21/15 13:46	1
Chromium	0.16		0.025	0.010	mg/L		01/20/15 08:30	01/21/15 13:46	1
Cobalt	0.045		0.025	0.010	mg/L		01/20/15 08:30	01/21/15 13:46	1
Copper	0.17		0.025	0.010	mg/L		01/20/15 08:30	01/21/15 13:46	1
Iron	130		0.20	0.20	mg/L		01/20/15 08:30	01/21/15 13:46	1
Lead	0.069		0.0075	0.0075	mg/L		01/20/15 08:30	01/21/15 13:46	1
Manganese	0.99		0.025	0.010	mg/L		01/20/15 08:30	01/21/15 13:46	1
Nickel	0.17		0.025	0.010	mg/L		01/20/15 08:30	01/21/15 13:46	1
Selenium	<0.050		0.050	0.020	mg/L		01/20/15 08:30	01/21/15 13:46	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90849-1

Client Sample ID: FP-2(0-3)-011515D

Lab Sample ID: 500-90849-5

Date Collected: 01/15/15 08:50

Matrix: Solid

Date Received: 01/16/15 07:25

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		01/20/15 08:30	01/21/15 13:46	1
Zinc	0.31		0.10	0.020	mg/L		01/20/15 08:30	01/21/15 13:46	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.44	J	1.1	0.23	mg/Kg	☼	01/18/15 16:30	01/20/15 14:57	1
Arsenic	5.6		0.56	0.26	mg/Kg	☼	01/18/15 16:30	01/20/15 14:57	1
Barium	50		0.56	0.10	mg/Kg	☼	01/18/15 16:30	01/20/15 14:57	1
Beryllium	0.78		0.22	0.049	mg/Kg	☼	01/18/15 16:30	01/20/15 14:57	1
Cadmium	0.37		0.11	0.033	mg/Kg	☼	01/18/15 16:30	01/20/15 14:57	1
Calcium	76000		110	36	mg/Kg	☼	01/18/15 16:30	01/21/15 14:53	10
Chromium	22		0.56	0.097	mg/Kg	☼	01/18/15 16:30	01/20/15 14:57	1
Cobalt	11		0.28	0.064	mg/Kg	☼	01/18/15 16:30	01/20/15 14:57	1
Copper	22	B	0.56	0.12	mg/Kg	☼	01/18/15 16:30	01/20/15 14:57	1
Iron	19000		11	4.3	mg/Kg	☼	01/18/15 16:30	01/20/15 14:57	1
Lead	11		0.28	0.14	mg/Kg	☼	01/18/15 16:30	01/20/15 14:57	1
Magnesium	33000		5.6	2.3	mg/Kg	☼	01/18/15 16:30	01/20/15 14:57	1
Manganese	480		0.56	0.11	mg/Kg	☼	01/18/15 16:30	01/20/15 14:57	1
Nickel	27		0.56	0.15	mg/Kg	☼	01/18/15 16:30	01/20/15 14:57	1
Potassium	4300		28	4.6	mg/Kg	☼	01/18/15 16:30	01/20/15 14:57	1
Selenium	<0.56		0.56	0.28	mg/Kg	☼	01/18/15 16:30	01/20/15 14:57	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	01/18/15 16:30	01/20/15 14:57	1
Sodium	1600		56	7.4	mg/Kg	☼	01/18/15 16:30	01/20/15 14:57	1
Thallium	0.54	J	0.56	0.28	mg/Kg	☼	01/18/15 16:30	01/20/15 14:57	1
Vanadium	24		0.28	0.082	mg/Kg	☼	01/18/15 16:30	01/20/15 14:57	1
Zinc	41	B	1.1	0.36	mg/Kg	☼	01/18/15 16:30	01/20/15 14:57	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		01/20/15 11:00	01/21/15 10:17	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		01/20/15 11:00	01/21/15 12:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	15	J	18	6.4	ug/Kg	☼	01/19/15 14:30	01/20/15 11:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.16		0.200	0.200	SU			01/19/15 13:31	1

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90849-1

Client Sample ID: FP-1(0-3)-011515

Lab Sample ID: 500-90849-6

Date Collected: 01/15/15 09:00

Matrix: Solid

Date Received: 01/16/15 07:25

Percent Solids: 86.4

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	18		5.8	2.5	ug/Kg	*		01/20/15 14:01	1
Benzene	<5.8		5.8	0.79	ug/Kg	*		01/20/15 14:01	1
Bromodichloromethane	<5.8		5.8	1.0	ug/Kg	*		01/20/15 14:01	1
Bromoform	<5.8		5.8	1.3	ug/Kg	*		01/20/15 14:01	1
Bromomethane	<5.8		5.8	1.7	ug/Kg	*		01/20/15 14:01	1
Carbon disulfide	<5.8		5.8	0.86	ug/Kg	*		01/20/15 14:01	1
Carbon tetrachloride	<5.8		5.8	1.1	ug/Kg	*		01/20/15 14:01	1
Chlorobenzene	<5.8		5.8	0.59	ug/Kg	*		01/20/15 14:01	1
Chloroethane	<5.8		5.8	1.6	ug/Kg	*		01/20/15 14:01	1
Chloroform	<5.8		5.8	0.67	ug/Kg	*		01/20/15 14:01	1
Chloromethane	<5.8		5.8	1.2	ug/Kg	*		01/20/15 14:01	1
cis-1,2-Dichloroethene	<5.8		5.8	0.82	ug/Kg	*		01/20/15 14:01	1
cis-1,3-Dichloropropene	<5.8		5.8	0.76	ug/Kg	*		01/20/15 14:01	1
Dibromochloromethane	<5.8		5.8	1.0	ug/Kg	*		01/20/15 14:01	1
1,1-Dichloroethane	<5.8		5.8	0.92	ug/Kg	*		01/20/15 14:01	1
1,2-Dichloroethane	<5.8		5.8	0.86	ug/Kg	*		01/20/15 14:01	1
1,1-Dichloroethene	<5.8		5.8	0.94	ug/Kg	*		01/20/15 14:01	1
1,2-Dichloropropane	<5.8		5.8	0.88	ug/Kg	*		01/20/15 14:01	1
1,3-Dichloropropene, Total	<5.8		5.8	0.76	ug/Kg	*		01/20/15 14:01	1
Ethylbenzene	<5.8		5.8	1.2	ug/Kg	*		01/20/15 14:01	1
2-Hexanone	<5.8		5.8	1.7	ug/Kg	*		01/20/15 14:01	1
Methylene Chloride	<5.8		5.8	1.6	ug/Kg	*		01/20/15 14:01	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	*		01/20/15 14:01	1
methyl isobutyl ketone	<5.8		5.8	1.5	ug/Kg	*		01/20/15 14:01	1
Methyl tert-butyl ether	<5.8		5.8	0.96	ug/Kg	*		01/20/15 14:01	1
Styrene	<5.8		5.8	0.76	ug/Kg	*		01/20/15 14:01	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	1.2	ug/Kg	*		01/20/15 14:01	1
Tetrachloroethene	<5.8		5.8	0.88	ug/Kg	*		01/20/15 14:01	1
Toluene	<5.8		5.8	0.81	ug/Kg	*		01/20/15 14:01	1
trans-1,2-Dichloroethene	<5.8		5.8	0.80	ug/Kg	*		01/20/15 14:01	1
trans-1,3-Dichloropropene	<5.8		5.8	1.0	ug/Kg	*		01/20/15 14:01	1
1,1,1-Trichloroethane	<5.8		5.8	0.86	ug/Kg	*		01/20/15 14:01	1
1,1,2-Trichloroethane	<5.8		5.8	0.79	ug/Kg	*		01/20/15 14:01	1
Trichloroethene	<5.8		5.8	0.95	ug/Kg	*		01/20/15 14:01	1
Vinyl chloride	<5.8		5.8	1.2	ug/Kg	*		01/20/15 14:01	1
Xylenes, Total	<12		12	0.52	ug/Kg	*		01/20/15 14:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 122		01/20/15 14:01	1
Dibromofluoromethane	102		75 - 120		01/20/15 14:01	1
1,2-Dichloroethane-d4 (Surr)	114		70 - 134		01/20/15 14:01	1
Toluene-d8 (Surr)	97		75 - 122		01/20/15 14:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	41	ug/Kg	*	01/16/15 15:52	01/21/15 13:32	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	*	01/16/15 15:52	01/21/15 13:32	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	*	01/16/15 15:52	01/21/15 13:32	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	*	01/16/15 15:52	01/21/15 13:32	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	*	01/16/15 15:52	01/21/15 13:32	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90849-1

Client Sample ID: FP-1(0-3)-011515

Lab Sample ID: 500-90849-6

Date Collected: 01/15/15 09:00

Matrix: Solid

Date Received: 01/16/15 07:25

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	86	ug/Kg	☼	01/16/15 15:52	01/21/15 13:32	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	01/16/15 15:52	01/21/15 13:32	1
2,4-Dichlorophenol	<370		370	90	ug/Kg	☼	01/16/15 15:52	01/21/15 13:32	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	01/16/15 15:52	01/21/15 13:32	1
2,4-Dinitrophenol	<760	*	760	660	ug/Kg	☼	01/16/15 15:52	01/21/15 13:32	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	01/16/15 15:52	01/21/15 13:32	1
2,6-Dinitrotoluene	<190		190	74	ug/Kg	☼	01/16/15 15:52	01/21/15 13:32	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	01/16/15 15:52	01/21/15 13:32	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	01/16/15 15:52	01/21/15 13:32	1
2-Methylnaphthalene	<37		37	6.9	ug/Kg	☼	01/16/15 15:52	01/21/15 13:32	1
2-Methylphenol	<190		190	61	ug/Kg	☼	01/16/15 15:52	01/21/15 13:32	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	01/16/15 15:52	01/21/15 13:32	1
2-Nitrophenol	<370		370	89	ug/Kg	☼	01/16/15 15:52	01/21/15 13:32	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	01/16/15 15:52	01/21/15 13:32	1
3,3'-Dichlorobenzidine	<190		190	53	ug/Kg	☼	01/16/15 15:52	01/21/15 13:32	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	01/16/15 15:52	01/21/15 13:32	1
4,6-Dinitro-2-methylphenol	<370		370	300	ug/Kg	☼	01/16/15 15:52	01/21/15 13:32	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	01/16/15 15:52	01/21/15 13:32	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	01/16/15 15:52	01/21/15 13:32	1
4-Chloroaniline	<760		760	180	ug/Kg	☼	01/16/15 15:52	01/21/15 13:32	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	01/16/15 15:52	01/21/15 13:32	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	01/16/15 15:52	01/21/15 13:32	1
4-Nitrophenol	<760		760	360	ug/Kg	☼	01/16/15 15:52	01/21/15 13:32	1
Acenaphthene	<37		37	6.8	ug/Kg	☼	01/16/15 15:52	01/21/15 13:32	1
Acenaphthylene	<37		37	5.0	ug/Kg	☼	01/16/15 15:52	01/21/15 13:32	1
Anthracene	<37		37	6.3	ug/Kg	☼	01/16/15 15:52	01/21/15 13:32	1
Benzo[a]anthracene	14	J	37	5.1	ug/Kg	☼	01/16/15 15:52	01/21/15 13:32	1
Benzo[a]pyrene	19	J	37	7.3	ug/Kg	☼	01/16/15 15:52	01/21/15 13:32	1
Benzo[b]fluoranthene	25	J	37	8.1	ug/Kg	☼	01/16/15 15:52	01/21/15 13:32	1
Benzo[g,h,i]perylene	24	J	37	12	ug/Kg	☼	01/16/15 15:52	01/21/15 13:32	1
Benzo[k]fluoranthene	13	J	37	11	ug/Kg	☼	01/16/15 15:52	01/21/15 13:32	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	01/16/15 15:52	01/21/15 13:32	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	01/16/15 15:52	01/21/15 13:32	1
Bis(2-ethylhexyl) phthalate	<190		190	69	ug/Kg	☼	01/16/15 15:52	01/21/15 13:32	1
Butyl benzyl phthalate	<190		190	72	ug/Kg	☼	01/16/15 15:52	01/21/15 13:32	1
Carbazole	<190		190	97	ug/Kg	☼	01/16/15 15:52	01/21/15 13:32	1
Chrysene	25	J	37	10	ug/Kg	☼	01/16/15 15:52	01/21/15 13:32	1
Dibenz(a,h)anthracene	<37		37	7.3	ug/Kg	☼	01/16/15 15:52	01/21/15 13:32	1
Dibenzofuran	<190		190	44	ug/Kg	☼	01/16/15 15:52	01/21/15 13:32	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	01/16/15 15:52	01/21/15 13:32	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	01/16/15 15:52	01/21/15 13:32	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	01/16/15 15:52	01/21/15 13:32	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	01/16/15 15:52	01/21/15 13:32	1
Fluoranthene	20	J	37	7.0	ug/Kg	☼	01/16/15 15:52	01/21/15 13:32	1
Fluorene	<37		37	5.3	ug/Kg	☼	01/16/15 15:52	01/21/15 13:32	1
Hexachlorobenzene	<76		76	8.7	ug/Kg	☼	01/16/15 15:52	01/21/15 13:32	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	01/16/15 15:52	01/21/15 13:32	1
Hexachlorocyclopentadiene	<760		760	220	ug/Kg	☼	01/16/15 15:52	01/21/15 13:32	1
Hexachloroethane	<190		190	57	ug/Kg	☼	01/16/15 15:52	01/21/15 13:32	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90849-1

Client Sample ID: FP-1(0-3)-011515

Lab Sample ID: 500-90849-6

Date Collected: 01/15/15 09:00

Matrix: Solid

Date Received: 01/16/15 07:25

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	14	J	37	9.8	ug/Kg	☼	01/16/15 15:52	01/21/15 13:32	1
Isophorone	<190		190	42	ug/Kg	☼	01/16/15 15:52	01/21/15 13:32	1
Naphthalene	<37		37	5.8	ug/Kg	☼	01/16/15 15:52	01/21/15 13:32	1
Nitrobenzene	<37		37	9.4	ug/Kg	☼	01/16/15 15:52	01/21/15 13:32	1
N-Nitrosodi-n-propylamine	<190		190	46	ug/Kg	☼	01/16/15 15:52	01/21/15 13:32	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	01/16/15 15:52	01/21/15 13:32	1
Pentachlorophenol	<760		760	610	ug/Kg	☼	01/16/15 15:52	01/21/15 13:32	1
Phenanthrene	8.5	J	37	5.3	ug/Kg	☼	01/16/15 15:52	01/21/15 13:32	1
Phenol	<190		190	84	ug/Kg	☼	01/16/15 15:52	01/21/15 13:32	1
Pyrene	30	J	37	7.5	ug/Kg	☼	01/16/15 15:52	01/21/15 13:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	59		35 - 137				01/16/15 15:52	01/21/15 13:32	1
2-Fluorobiphenyl	46		25 - 119				01/16/15 15:52	01/21/15 13:32	1
2-Fluorophenol	57		25 - 110				01/16/15 15:52	01/21/15 13:32	1
Nitrobenzene-d5	49		25 - 115				01/16/15 15:52	01/21/15 13:32	1
Phenol-d5	47		31 - 110				01/16/15 15:52	01/21/15 13:32	1
Terphenyl-d14	82		36 - 134				01/16/15 15:52	01/21/15 13:32	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/19/15 08:00	01/21/15 18:59	1
Barium	0.30	J	0.50	0.050	mg/L		01/19/15 08:00	01/21/15 18:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/19/15 08:00	01/21/15 18:59	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/19/15 08:00	01/21/15 18:59	1
Chromium	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/21/15 18:59	1
Cobalt	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/21/15 18:59	1
Copper	0.073		0.025	0.010	mg/L		01/19/15 08:00	01/21/15 18:59	1
Iron	<0.20		0.20	0.20	mg/L		01/19/15 08:00	01/21/15 18:59	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/19/15 08:00	01/21/15 18:59	1
Manganese	2.2		0.025	0.010	mg/L		01/19/15 08:00	01/21/15 18:59	1
Nickel	0.011	J	0.025	0.010	mg/L		01/19/15 08:00	01/21/15 18:59	1
Selenium	<0.050		0.050	0.020	mg/L		01/19/15 08:00	01/21/15 18:59	1
Silver	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/21/15 18:59	1
Zinc	0.080	J	0.10	0.020	mg/L		01/19/15 08:00	01/21/15 18:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.046	J	0.050	0.010	mg/L		01/20/15 08:30	01/21/15 13:52	1
Barium	0.33	J	0.50	0.050	mg/L		01/20/15 08:30	01/21/15 13:52	1
Beryllium	0.0043		0.0040	0.0040	mg/L		01/20/15 08:30	01/21/15 13:52	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/20/15 08:30	01/21/15 13:52	1
Chromium	0.10		0.025	0.010	mg/L		01/20/15 08:30	01/21/15 13:52	1
Cobalt	0.044		0.025	0.010	mg/L		01/20/15 08:30	01/21/15 13:52	1
Copper	0.20		0.025	0.010	mg/L		01/20/15 08:30	01/21/15 13:52	1
Iron	100		0.20	0.20	mg/L		01/20/15 08:30	01/21/15 13:52	1
Lead	0.11		0.0075	0.0075	mg/L		01/20/15 08:30	01/21/15 13:52	1
Manganese	0.92		0.025	0.010	mg/L		01/20/15 08:30	01/21/15 13:52	1
Nickel	0.13		0.025	0.010	mg/L		01/20/15 08:30	01/21/15 13:52	1
Selenium	<0.050		0.050	0.020	mg/L		01/20/15 08:30	01/21/15 13:52	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90849-1

Client Sample ID: FP-1(0-3)-011515

Lab Sample ID: 500-90849-6

Date Collected: 01/15/15 09:00

Matrix: Solid

Date Received: 01/16/15 07:25

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		01/20/15 08:30	01/21/15 13:52	1
Zinc	0.37		0.10	0.020	mg/L		01/20/15 08:30	01/21/15 13:52	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.43	J	1.1	0.23	mg/Kg	☼	01/18/15 16:30	01/20/15 15:03	1
Arsenic	6.6		0.54	0.25	mg/Kg	☼	01/18/15 16:30	01/20/15 15:03	1
Barium	32		0.54	0.10	mg/Kg	☼	01/18/15 16:30	01/20/15 15:03	1
Beryllium	0.54		0.22	0.047	mg/Kg	☼	01/18/15 16:30	01/20/15 15:03	1
Cadmium	0.52		0.11	0.032	mg/Kg	☼	01/18/15 16:30	01/20/15 15:03	1
Calcium	90000		110	35	mg/Kg	☼	01/18/15 16:30	01/21/15 14:57	10
Chromium	15		0.54	0.094	mg/Kg	☼	01/18/15 16:30	01/20/15 15:03	1
Cobalt	8.0		0.27	0.062	mg/Kg	☼	01/18/15 16:30	01/20/15 15:03	1
Copper	28	B	0.54	0.12	mg/Kg	☼	01/18/15 16:30	01/20/15 15:03	1
Iron	18000		11	4.2	mg/Kg	☼	01/18/15 16:30	01/20/15 15:03	1
Lead	58		0.27	0.14	mg/Kg	☼	01/18/15 16:30	01/20/15 15:03	1
Magnesium	39000		5.4	2.2	mg/Kg	☼	01/18/15 16:30	01/20/15 15:03	1
Manganese	580		0.54	0.11	mg/Kg	☼	01/18/15 16:30	01/20/15 15:03	1
Nickel	20		0.54	0.15	mg/Kg	☼	01/18/15 16:30	01/20/15 15:03	1
Potassium	2600		27	4.4	mg/Kg	☼	01/18/15 16:30	01/20/15 15:03	1
Selenium	<0.54		0.54	0.27	mg/Kg	☼	01/18/15 16:30	01/20/15 15:03	1
Silver	<0.27		0.27	0.064	mg/Kg	☼	01/18/15 16:30	01/20/15 15:03	1
Sodium	800		54	7.2	mg/Kg	☼	01/18/15 16:30	01/20/15 15:03	1
Thallium	0.76		0.54	0.27	mg/Kg	☼	01/18/15 16:30	01/20/15 15:03	1
Vanadium	19		0.27	0.080	mg/Kg	☼	01/18/15 16:30	01/20/15 15:03	1
Zinc	85	B	1.1	0.34	mg/Kg	☼	01/18/15 16:30	01/20/15 15:03	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		01/20/15 11:00	01/21/15 10:19	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		01/20/15 11:00	01/21/15 12:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	12	J	19	6.5	ug/Kg	☼	01/16/15 13:00	01/19/15 11:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.73		0.200	0.200	SU			01/19/15 13:35	1

Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90849-1

Qualifiers

GC/MS VOA

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

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
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
F1	MS and/or MSD Recovery exceeds the control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F2	MS/MSD RPD exceeds control 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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90849-1

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-15

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

Analysis Method	Prep Method	Matrix	Analyte
7470A	7470A	Solid	Mercury
8260B		Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

1

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15

TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 61
Phone: 708.534.5200 Fax: 708.53



500-90849 COC

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

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

Chain of Custody Record

Lab Job #: 500-90849
Chain of Custody Number:
Page 1 of 3
Temperature °C of Cooler: 3.1, 3.5

Client		Client Project #		Preservative		7		7		7		7		7		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		Parameter		VOCs		SVOCs		Total Metals		TCLP/SLCP Metals		PH		
Sampler		Lab Project #		Matrix												
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	Comments									
1		FP-5 (0-3)-011515	1/5/15	0835	2 S	S	X	X	X	X	X					
2		FP-4 (0-3)-011515		0750												
3		FP-3 (0-3)-011515		0755												
4		FP-2 (0-3)-011515		0850												
5		FP-2 (0-3)-011515 D		0850												
6		FP-1 (0-3)-011515		0900												
7		RS-1 (0-3)-011515		0920												
8		AG-2 (0-3)-011515		0955												
9		AG-1 (0-3)-011515		1010												
10		C 28-1 (0-3)-011515		1020												

Turnaround Time Required (Business Days)

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

Requested Due Date

Sample Disposal

Return to Client

Disposal by Lab

Archive for _____ Months

(A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>Matthew</u>	Company <u>Weston</u>	Date <u>1/15/15</u>	Time <u>1500</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>1/15/15</u>	Time <u>1500</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>1/15/15</u>	Time <u>1655</u>	Received By <u>[Signature]</u>	Company <u>TA-CRT</u>	Date <u>1/16/15</u>	Time <u>0725</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:

1.10.1.835

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

Report To (optional) _____ Bill To (optional) _____
 Contact: S. Babusukumar Contact: _____
 Company: Weston Solutions Company: _____
 Address: 300 Plaza Circle Ste 202 Address: SAME
 Address: Mundelein IL 60060 Address: _____
 Phone: (864)-224-7200 Phone: _____
 Fax: _____ Fax: _____
 E-Mail: _____ PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-90849

Chain of Custody Number: _____

Page 2 of 3

Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter								Preservative Key	
<u>Weston</u>				<u>7</u>	<u>7</u>	<u>7</u>	<u>7</u>	<u>7</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						Comments	
<u>IDOT 001</u>		<u>IL</u>				<u>M. Strow</u>		<u>D. Wright</u>							
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	VOCs	SVOCs	Total Metals	TECP/SPLP Metals	PH				
			Date	Time											
<u>11</u>		<u>C27-2(0-3)-011515</u>	<u>1/15/15</u>	<u>1040</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>				
<u>12</u>		<u>C27-2(0-3)-011515D</u>		<u>1040</u>											
<u>13</u>		<u>C27-1(0-3)-011515</u>		<u>1050</u>											
<u>14</u>		<u>V26-2(0-3)-011515</u>		<u>1105</u>											
<u>15</u>		<u>V26-1(0-3)-011515</u>		<u>1115</u>											
<u>16</u>		<u>W-1(0-3)-011515</u>		<u>1150</u>											
<u>17</u>		<u>W-2(0-3)-011515</u>		<u>1200</u>											
<u>18</u>		<u>W-3(0-3)-011515</u>		<u>1210</u>											
<u>19</u>		<u>W-4(0-3)-011515</u>		<u>1225</u>											
<u>20</u>		<u>W-5(0-3)-011515</u>		<u>1240</u>											

Turnaround Time Required (Business Days)

1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Standard 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>M. Strow</u>	Company <u>Weston</u>	Date <u>1/15/15</u>	Time <u>1500</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>1/15/15</u>	Time <u>1500</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>1/15/15</u>	Time <u>1655</u>	Received By <u>[Signature]</u>	Company <u>TA-CHT</u>	Date <u>1/16/15</u>	Time <u>0725</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: _____



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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 346: US 41 from IL 21 to West Park Ave Office Phone Number, if available: _____

Physical Site Location (address, including number and street):
1875 N. IL 21

City: Gurnee State: IL Zip Code: _____

County: Lake Township: _____

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

Latitude: 42.38771958 Longitude: -87.92274167
(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: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

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

Project Name: FAP 346: US 41 from IL 21 to West Park AveLatitude: 42.38771958 Longitude: -87.92274167Uncontaminated Site Certification**III. Basis for Certification and Attachments**

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

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

LOCATION SA-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2668A-8. SEE FIGURE 3-1 AND TABLE 4-1 OF THE REVISED 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]:

TEST AMERICA ANALYTICAL REPORT - JOB ID: 500-90788-1

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

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

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

Company Name: Illinois Department of TransportationStreet Address: 2300 South Dirksen ParkwayCity: Springfield State: IL Zip Code: 62764Phone: 217-785-4246Kurt T. Fischer P.G.

Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Date:

2/9/15



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

Summary Table of ISGS Site No. 2668A-8
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 346: US Route 41 (Skokie Highway) from IL Route 21 to West Park Avenue
Gurnee, Park City, Waukegan, and North Chicago, Lake County, Illinois

Field Sample ID	SA-1(0-3)-011415	Soil Reference Concentrations^A
Sample Date	1/14/2015	
Location ID	SA-1	
Depth	0 - 3	
ISGS Site Number	2668A-8	
Parameter		
Laboratory pH (s.u.)	8.86	<6.25,>9.0
VOCs (ug/kg)	None Detected	
SVOCs (ug/kg)		
Anthracene	8.9 J	1.20E+07
Benzo(a)anthracene	69	900 / 1100 / 1800
Benzo(a)pyrene	120	90 / 1300 / 2100
Benzo(b)fluoranthene	170	900 / 1500 / 2100
Benzo(g,h,i)perylene	140	---
Benzo(k)fluoranthene	86	9000
Chrysene	130	88000
Dibenzo(a,h)anthracene	32 J	90 / 200 / 420
Di-N-Octyl phthalate	70 J	1600000
Fluoranthene	150	3100000
Indeno(1,2,3-cd)pyrene	110	900 / 900 / 1600
Phenanthrene	46	---
Pyrene	160	2300000
Total Metals (mg/kg)		
Antimony, Total	0.56 J	5
Arsenic, Total	7.2 J	11.3 / 13
Barium, Total	68 J	1500
Beryllium, Total	0.59	22
Cadmium, Total	0.52 J-	5.2
Calcium, Total	34000 J	---
Chromium, Total	16	21
Cobalt, Total	9.3 J-	20
Copper, Total	21	2900
Iron, Total	19000 J-	15000 / 15900
Lead, Total	35 J-	107
Magnesium, Total	23000 J	325000
Manganese, Total	700 J	630 / 636
Mercury, Total	0.024 J	0.89
Nickel, Total	20 J-	100
Potassium, Total	1900 J+	---
Selenium, Total	0.68 J-	1.3
Sodium, Total	550 J-	---
Thallium, Total	0.79 J-	2.6
Vanadium, Total	22	550
Zinc, Total	62 J-	5100
TCLP Metals (mg/l)		
Barium, TCLP	0.31 J	2
Manganese, TCLP	0.023 J	0.15

Summary Table of ISGS Site No. 2668A-8
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 346: US Route 41 (Skokie Highway) from IL Route 21 to West Park Avenue
Gurnee, Park City, Waukegan, and North Chicago, Lake County, Illinois

Field Sample ID	SA-1(0-3)-011415	Soil Reference Concentrations ^A
Sample Date	1/14/2015	
Location ID	SA-1	
Depth	0 - 3	
ISGS Site Number	2668A-8	
Parameter		
SPLP Metals (mg/l)		
Arsenic, SPLP	0.04 J	0.05
Barium, SPLP	0.4 J	2
Beryllium, SPLP	0.0054	0.004
Cadmium, SPLP	0.0021 J	0.005
Chromium, SPLP	0.14	0.1
Cobalt, SPLP	0.026	1
Copper, SPLP	0.19	0.65
Iron, SPLP	130 J+	5
Lead, SPLP	0.16	0.0075
Manganese, SPLP	0.52	0.15
Nickel, SPLP	0.13	0.1
Zinc, SPLP	0.54	5

Notes:

--- - not applicable or value not available.

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

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: 500-90788-1
Client Project/Site: IDOT - Lake County - WO 001

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

Attn: Mr. S. Babusukumar



Authorized for release by:
1/23/2015 1:15:32 PM

Richard Wright, Senior Project Manager
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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 - Lake County - WO 001

TestAmerica Job ID: 500-90788-1

Client Sample ID: SA-1(0-3)-011415

Lab Sample ID: 500-90788-1

Date Collected: 01/14/15 08:30

Matrix: Solid

Date Received: 01/15/15 07:30

Percent Solids: 83.8

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<6.0		6.0	2.6	ug/Kg	☼		01/16/15 18:37	1
Benzene	<6.0		6.0	0.82	ug/Kg	☼		01/16/15 18:37	1
Bromodichloromethane	<6.0		6.0	1.0	ug/Kg	☼		01/16/15 18:37	1
Bromoform	<6.0		6.0	1.4	ug/Kg	☼		01/16/15 18:37	1
Bromomethane	<6.0		6.0	1.8	ug/Kg	☼		01/16/15 18:37	1
Carbon disulfide	<6.0		6.0	0.89	ug/Kg	☼		01/16/15 18:37	1
Carbon tetrachloride	<6.0		6.0	1.1	ug/Kg	☼		01/16/15 18:37	1
Chlorobenzene	<6.0		6.0	0.61	ug/Kg	☼		01/16/15 18:37	1
Chloroethane	<6.0		6.0	1.6	ug/Kg	☼		01/16/15 18:37	1
Chloroform	<6.0		6.0	0.69	ug/Kg	☼		01/16/15 18:37	1
Chloromethane	<6.0		6.0	1.3	ug/Kg	☼		01/16/15 18:37	1
cis-1,2-Dichloroethene	<6.0		6.0	0.84	ug/Kg	☼		01/16/15 18:37	1
cis-1,3-Dichloropropene	<6.0		6.0	0.78	ug/Kg	☼		01/16/15 18:37	1
Dibromochloromethane	<6.0		6.0	1.0	ug/Kg	☼		01/16/15 18:37	1
1,1-Dichloroethane	<6.0		6.0	0.94	ug/Kg	☼		01/16/15 18:37	1
1,2-Dichloroethane	<6.0		6.0	0.88	ug/Kg	☼		01/16/15 18:37	1
1,1-Dichloroethene	<6.0		6.0	0.96	ug/Kg	☼		01/16/15 18:37	1
1,2-Dichloropropane	<6.0		6.0	0.91	ug/Kg	☼		01/16/15 18:37	1
1,3-Dichloropropene, Total	<6.0		6.0	0.78	ug/Kg	☼		01/16/15 18:37	1
Ethylbenzene	<6.0		6.0	1.2	ug/Kg	☼		01/16/15 18:37	1
2-Hexanone	<6.0		6.0	1.7	ug/Kg	☼		01/16/15 18:37	1
Methylene Chloride	<6.0		6.0	1.6	ug/Kg	☼		01/16/15 18:37	1
Methyl Ethyl Ketone	<6.0		6.0	2.2	ug/Kg	☼		01/16/15 18:37	1
methyl isobutyl ketone	<6.0		6.0	1.6	ug/Kg	☼		01/16/15 18:37	1
Methyl tert-butyl ether	<6.0		6.0	0.99	ug/Kg	☼		01/16/15 18:37	1
Styrene	<6.0		6.0	0.78	ug/Kg	☼		01/16/15 18:37	1
1,1,1,2-Tetrachloroethane	<6.0		6.0	1.2	ug/Kg	☼		01/16/15 18:37	1
Tetrachloroethene	<6.0		6.0	0.91	ug/Kg	☼		01/16/15 18:37	1
Toluene	<6.0		6.0	0.84	ug/Kg	☼		01/16/15 18:37	1
trans-1,2-Dichloroethene	<6.0		6.0	0.82	ug/Kg	☼		01/16/15 18:37	1
trans-1,3-Dichloropropene	<6.0	*	6.0	1.1	ug/Kg	☼		01/16/15 18:37	1
1,1,1-Trichloroethane	<6.0		6.0	0.89	ug/Kg	☼		01/16/15 18:37	1
1,1,2-Trichloroethane	<6.0		6.0	0.81	ug/Kg	☼		01/16/15 18:37	1
Trichloroethene	<6.0		6.0	0.99	ug/Kg	☼		01/16/15 18:37	1
Vinyl chloride	<6.0		6.0	1.3	ug/Kg	☼		01/16/15 18:37	1
Xylenes, Total	<12		12	0.54	ug/Kg	☼		01/16/15 18:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122		01/16/15 18:37	1
Dibromofluoromethane	103		75 - 120		01/16/15 18:37	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134		01/16/15 18:37	1
Toluene-d8 (Surr)	97		75 - 122		01/16/15 18:37	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	☼	01/15/15 16:05	01/21/15 00:47	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	01/15/15 16:05	01/21/15 00:47	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	01/15/15 16:05	01/21/15 00:47	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	01/15/15 16:05	01/21/15 00:47	1
2,2'-oxybis[1-chloropropane]	<190		190	45	ug/Kg	☼	01/15/15 16:05	01/21/15 00:47	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90788-1

Client Sample ID: SA-1(0-3)-011415

Lab Sample ID: 500-90788-1

Date Collected: 01/14/15 08:30

Matrix: Solid

Date Received: 01/15/15 07:30

Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<380		380	88	ug/Kg	*	01/15/15 16:05	01/21/15 00:47	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	*	01/15/15 16:05	01/21/15 00:47	1
2,4-Dichlorophenol	<380		380	92	ug/Kg	*	01/15/15 16:05	01/21/15 00:47	1
2,4-Dimethylphenol	<380		380	150	ug/Kg	*	01/15/15 16:05	01/21/15 00:47	1
2,4-Dinitrophenol	<780		780	680	ug/Kg	*	01/15/15 16:05	01/21/15 00:47	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	*	01/15/15 16:05	01/21/15 00:47	1
2,6-Dinitrotoluene	<190		190	76	ug/Kg	*	01/15/15 16:05	01/21/15 00:47	1
2-Chloronaphthalene	<190		190	43	ug/Kg	*	01/15/15 16:05	01/21/15 00:47	1
2-Chlorophenol	<190		190	66	ug/Kg	*	01/15/15 16:05	01/21/15 00:47	1
2-Methylnaphthalene	<38		38	7.1	ug/Kg	*	01/15/15 16:05	01/21/15 00:47	1
2-Methylphenol	<190		190	62	ug/Kg	*	01/15/15 16:05	01/21/15 00:47	1
2-Nitroaniline	<190		190	52	ug/Kg	*	01/15/15 16:05	01/21/15 00:47	1
2-Nitrophenol	<380		380	91	ug/Kg	*	01/15/15 16:05	01/21/15 00:47	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	*	01/15/15 16:05	01/21/15 00:47	1
3,3'-Dichlorobenzidine	<190		190	54	ug/Kg	*	01/15/15 16:05	01/21/15 00:47	1
3-Nitroaniline	<380		380	120	ug/Kg	*	01/15/15 16:05	01/21/15 00:47	1
4,6-Dinitro-2-methylphenol	<380		380	310	ug/Kg	*	01/15/15 16:05	01/21/15 00:47	1
4-Bromophenyl phenyl ether	<190		190	51	ug/Kg	*	01/15/15 16:05	01/21/15 00:47	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	*	01/15/15 16:05	01/21/15 00:47	1
4-Chloroaniline	<780		780	180	ug/Kg	*	01/15/15 16:05	01/21/15 00:47	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	*	01/15/15 16:05	01/21/15 00:47	1
4-Nitroaniline	<380		380	160	ug/Kg	*	01/15/15 16:05	01/21/15 00:47	1
4-Nitrophenol	<780		780	370	ug/Kg	*	01/15/15 16:05	01/21/15 00:47	1
Acenaphthene	<38		38	6.9	ug/Kg	*	01/15/15 16:05	01/21/15 00:47	1
Acenaphthylene	<38		38	5.1	ug/Kg	*	01/15/15 16:05	01/21/15 00:47	1
Anthracene	8.9	J	38	6.4	ug/Kg	*	01/15/15 16:05	01/21/15 00:47	1
Benzo[a]anthracene	69		38	5.2	ug/Kg	*	01/15/15 16:05	01/21/15 00:47	1
Benzo[a]pyrene	120		38	7.5	ug/Kg	*	01/15/15 16:05	01/21/15 00:47	1
Benzo[b]fluoranthene	170		38	8.3	ug/Kg	*	01/15/15 16:05	01/21/15 00:47	1
Benzo[g,h,i]perylene	140		38	12	ug/Kg	*	01/15/15 16:05	01/21/15 00:47	1
Benzo[k]fluoranthene	86		38	11	ug/Kg	*	01/15/15 16:05	01/21/15 00:47	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	*	01/15/15 16:05	01/21/15 00:47	1
Bis(2-chloroethyl)ether	<190		190	58	ug/Kg	*	01/15/15 16:05	01/21/15 00:47	1
Bis(2-ethylhexyl) phthalate	<190		190	70	ug/Kg	*	01/15/15 16:05	01/21/15 00:47	1
Butyl benzyl phthalate	<190		190	73	ug/Kg	*	01/15/15 16:05	01/21/15 00:47	1
Carbazole	<190		190	100	ug/Kg	*	01/15/15 16:05	01/21/15 00:47	1
Chrysene	130		38	11	ug/Kg	*	01/15/15 16:05	01/21/15 00:47	1
Dibenz(a,h)anthracene	32	J	38	7.4	ug/Kg	*	01/15/15 16:05	01/21/15 00:47	1
Dibenzofuran	<190		190	45	ug/Kg	*	01/15/15 16:05	01/21/15 00:47	1
Diethyl phthalate	<190		190	65	ug/Kg	*	01/15/15 16:05	01/21/15 00:47	1
Dimethyl phthalate	<190		190	50	ug/Kg	*	01/15/15 16:05	01/21/15 00:47	1
Di-n-butyl phthalate	<190		190	59	ug/Kg	*	01/15/15 16:05	01/21/15 00:47	1
Di-n-octyl phthalate	70	J	190	63	ug/Kg	*	01/15/15 16:05	01/21/15 00:47	1
Fluoranthene	150		38	7.1	ug/Kg	*	01/15/15 16:05	01/21/15 00:47	1
Fluorene	<38		38	5.4	ug/Kg	*	01/15/15 16:05	01/21/15 00:47	1
Hexachlorobenzene	<78		78	8.9	ug/Kg	*	01/15/15 16:05	01/21/15 00:47	1
Hexachlorobutadiene	<190		190	61	ug/Kg	*	01/15/15 16:05	01/21/15 00:47	1
Hexachlorocyclopentadiene	<780		780	220	ug/Kg	*	01/15/15 16:05	01/21/15 00:47	1
Hexachloroethane	<190		190	59	ug/Kg	*	01/15/15 16:05	01/21/15 00:47	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90788-1

Client Sample ID: SA-1(0-3)-011415

Lab Sample ID: 500-90788-1

Date Collected: 01/14/15 08:30

Matrix: Solid

Date Received: 01/15/15 07:30

Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	110		38	10	ug/Kg	☼	01/15/15 16:05	01/21/15 00:47	1
Isophorone	<190		190	43	ug/Kg	☼	01/15/15 16:05	01/21/15 00:47	1
Naphthalene	<38		38	5.9	ug/Kg	☼	01/15/15 16:05	01/21/15 00:47	1
Nitrobenzene	<38		38	9.6	ug/Kg	☼	01/15/15 16:05	01/21/15 00:47	1
N-Nitrosodi-n-propylamine	<190		190	47	ug/Kg	☼	01/15/15 16:05	01/21/15 00:47	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	01/15/15 16:05	01/21/15 00:47	1
Pentachlorophenol	<780		780	620	ug/Kg	☼	01/15/15 16:05	01/21/15 00:47	1
Phenanthrene	46		38	5.4	ug/Kg	☼	01/15/15 16:05	01/21/15 00:47	1
Phenol	<190		190	86	ug/Kg	☼	01/15/15 16:05	01/21/15 00:47	1
Pyrene	160		38	7.7	ug/Kg	☼	01/15/15 16:05	01/21/15 00:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	58		35 - 137				01/15/15 16:05	01/21/15 00:47	1
2-Fluorobiphenyl	40		25 - 119				01/15/15 16:05	01/21/15 00:47	1
2-Fluorophenol	43		25 - 110				01/15/15 16:05	01/21/15 00:47	1
Nitrobenzene-d5	39		25 - 115				01/15/15 16:05	01/21/15 00:47	1
Phenol-d5	39		31 - 110				01/15/15 16:05	01/21/15 00:47	1
Terphenyl-d14	61		36 - 134				01/15/15 16:05	01/21/15 00:47	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/19/15 08:00	01/19/15 22:25	1
Barium	0.31	J	0.50	0.050	mg/L		01/19/15 08:00	01/19/15 22:25	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/19/15 08:00	01/19/15 22:25	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/19/15 08:00	01/19/15 22:25	1
Chromium	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/19/15 22:25	1
Cobalt	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/19/15 22:25	1
Copper	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/19/15 22:25	1
Iron	<0.20		0.20	0.20	mg/L		01/19/15 08:00	01/19/15 22:25	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/19/15 08:00	01/19/15 22:25	1
Manganese	0.023	J	0.025	0.010	mg/L		01/19/15 08:00	01/19/15 22:25	1
Nickel	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/19/15 22:25	1
Selenium	<0.050		0.050	0.020	mg/L		01/19/15 08:00	01/19/15 22:25	1
Silver	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/19/15 22:25	1
Zinc	<0.10		0.10	0.020	mg/L		01/19/15 08:00	01/19/15 22:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.040	J	0.050	0.010	mg/L		01/20/15 08:00	01/20/15 22:31	1
Barium	0.40	J	0.50	0.050	mg/L		01/20/15 08:00	01/20/15 22:31	1
Beryllium	0.0054		0.0040	0.0040	mg/L		01/20/15 08:00	01/20/15 22:31	1
Cadmium	0.0021	J	0.0050	0.0020	mg/L		01/20/15 08:00	01/20/15 22:31	1
Chromium	0.14		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 22:31	1
Cobalt	0.026		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 22:31	1
Copper	0.19		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 22:31	1
Iron	130		0.20	0.20	mg/L		01/20/15 08:00	01/20/15 22:31	1
Lead	0.16		0.038	0.038	mg/L		01/20/15 08:00	01/22/15 10:54	5
Manganese	0.52		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 22:31	1
Nickel	0.13		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 22:31	1
Selenium	<0.050		0.050	0.020	mg/L		01/20/15 08:00	01/20/15 22:31	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90788-1

Client Sample ID: SA-1(0-3)-011415

Lab Sample ID: 500-90788-1

Date Collected: 01/14/15 08:30

Matrix: Solid

Date Received: 01/15/15 07:30

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		01/20/15 08:00	01/20/15 22:31	1
Zinc	0.54		0.10	0.020	mg/L		01/20/15 08:00	01/20/15 22:31	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.56	J	1.1	0.24	mg/Kg	☼	01/18/15 16:30	01/20/15 01:36	1
Arsenic	7.2		0.57	0.26	mg/Kg	☼	01/18/15 16:30	01/20/15 01:36	1
Barium	68		0.57	0.10	mg/Kg	☼	01/18/15 16:30	01/20/15 01:36	1
Beryllium	0.59		0.23	0.049	mg/Kg	☼	01/18/15 16:30	01/20/15 01:36	1
Cadmium	0.52		0.11	0.033	mg/Kg	☼	01/18/15 16:30	01/20/15 01:36	1
Calcium	34000		11	3.7	mg/Kg	☼	01/18/15 16:30	01/20/15 01:36	1
Chromium	16		0.57	0.098	mg/Kg	☼	01/18/15 16:30	01/20/15 01:36	1
Cobalt	9.3		0.28	0.064	mg/Kg	☼	01/18/15 16:30	01/20/15 01:36	1
Copper	21		0.57	0.12	mg/Kg	☼	01/18/15 16:30	01/20/15 01:36	1
Iron	19000		11	4.4	mg/Kg	☼	01/18/15 16:30	01/20/15 01:36	1
Lead	35		0.28	0.14	mg/Kg	☼	01/18/15 16:30	01/20/15 01:36	1
Magnesium	23000		5.7	2.3	mg/Kg	☼	01/18/15 16:30	01/20/15 01:36	1
Manganese	700		0.57	0.11	mg/Kg	☼	01/18/15 16:30	01/20/15 01:36	1
Nickel	20		0.57	0.15	mg/Kg	☼	01/18/15 16:30	01/20/15 01:36	1
Potassium	1900		28	4.7	mg/Kg	☼	01/18/15 16:30	01/20/15 01:36	1
Selenium	0.68		0.57	0.28	mg/Kg	☼	01/18/15 16:30	01/20/15 01:36	1
Silver	<0.28		0.28	0.067	mg/Kg	☼	01/18/15 16:30	01/20/15 01:36	1
Sodium	550		57	7.5	mg/Kg	☼	01/18/15 16:30	01/20/15 01:36	1
Thallium	0.79		0.57	0.28	mg/Kg	☼	01/18/15 16:30	01/20/15 01:36	1
Vanadium	22		0.28	0.083	mg/Kg	☼	01/18/15 16:30	01/20/15 01:36	1
Zinc	62	B	1.1	0.36	mg/Kg	☼	01/18/15 16:30	01/20/15 01:36	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		01/19/15 11:30	01/20/15 09:31	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		01/19/15 11:30	01/20/15 10:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	24		17	6.7	ug/Kg	☼	01/15/15 13:00	01/16/15 08:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.86		0.200	0.200	SU			01/19/15 11:00	1

Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90788-1

Qualifiers

GC/MS VOA

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

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.
X	Surrogate is outside control limits
F1	MS and/or MSD Recovery exceeds the control limits
F2	MS/MSD RPD exceeds control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
F1	MS and/or MSD Recovery exceeds the 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.
F2	MS/MSD RPD exceeds control 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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90788-1

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-15

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

Analysis Method	Prep Method	Matrix	Analyte
7470A	7470A	Solid	Mercury
8260B		Solid	1,3-Dichloropropene, Total
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



500-90788 COC

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

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

Chain of Custody Record

Lab Job #: 500-90788
Chain of Custody Number:
Page 1 of 3
Temperature °C of Cooler: 3.2/2.8

Client		Client Project #		Preservative		7		7		7		7		7		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		VOCs		SVOCs		Total Metals		TCUP/SPLP Metals		PH		
Project Location/State		Lab PM		# of Containers		Matrix										
Lab ID	MS/MSD	Sample ID	Date	Time												
1		SA-1(0-3)-011415	1/14/15	0830	2	S			X	X	X	X	X			
2		V9-1(0-3)-011415		0850												
3		V9-2(0-3)-011415		0905												
4		V9-3(0-3)-011415		0920												
5		TM-1(0-3)-011415		0940												
6		UC-3(0-3)-011415		1005												
7		UC-4(0-3)-011415		1025												
8		UC-4(0-3)-011415D		1025												
9		RE-1(0-3)-011415		1040												
10		RE-2(0-3)-011415		1055												

Turnaround Time Required (Business Days)
 1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Standard Other
 Requested Due Date _____ Sample Disposal
 Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>M. Strow</u>	Company <u>Weston</u>	Date <u>1/14/15</u>	Time <u>1540</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>1/14/15</u>	Time <u>1530</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>1/14/15</u>	Time <u>1720</u>	Received By <u>[Signature]</u>	Company <u>TA-CAT</u>	Date <u>1/15/15</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: S. Babusukumar
Company: Weston
Address: 300 Plaza Circle Ste 202
Address: Mundelein, IL 60060
Phone: (224) 864-7200
Fax:
E-Mail:

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

Chain of Custody Record

Lab Job #: 500-90788

Chain of Custody Number: _____

Page 2 of 3

Temperature °C of Cooler: _____

Client		Client Project #		Preservative		7		7		7		7		7		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		7		7		7		7		7		Comments		
Project Location/State		Lab Project #		VOCs		SVOCs		Total Metals		TCUP/SPLP Metals		PH				
Sampler		Lab PM		Date		Time		# of Containers		Matrix						
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix										
11		RE-3 (0-3) - 011415	1/14/15	1105	2 S		X	X	X	X	X					
12		RE-4 (0-3) - 011415		1125												
13		RE-5 (0-3) - 011415		1135												
14		RE-6 (0-3) - 011415		1145												
15		RE-7 (0-3) - 011415		1200												
16		LC-8 (0-3) - 011415		1300												
17		LC-7 (0-3) - 011415		1310												
18		LC-6 (0-3) - 011415		1320												
19		LC-5 (0-3) - 011415		1340												
20		LC-5 (0-3) - 011415D		1340												

Turnaround Time Required (Business Days)

___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days ___ Standard ___ 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>Weston</u>	Company <u>Weston</u>	Date <u>1/14/15</u>	Time <u>1540</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>1/14/15</u>	Time <u>1540</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>1/14/15</u>	Time <u>1720</u>	Received By <u>[Signature]</u>	Company <u>TA-CRT</u>	Date <u>1/15/15</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:



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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 346: US 41 from IL 21 to West Park Ave Office Phone Number, if available: _____

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

1800 block of N. Skokie Highway (US 41)

City: Gurnee State: IL Zip Code: _____

County: Lake Township: _____

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

Latitude: 42.3867848 Longitude: -87.92199526
(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: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

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

Project Name: FAP 346: US 41 from IL 21 to West Park Ave

Latitude: 42.3867848 Longitude: -87.92199526

Uncontaminated Site Certification

III. Basis for Certification and Attachments

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

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

LOCATIONS V9-1 AND V9-2 WERE SAMPLED ADJACENT TO ISGS SITE No. 2668A-9. SEE FIGURE 3-1 AND TABLE 4-1 OF THE REVISED 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]:

TEST AMERICA ANALYTICAL REPORT - JOB ID: 500-90788-1

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

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

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

Company Name: Illinois Department of Transportation

Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Kurt T. Fischer P.G.

Printed Name:



2/9/15

Date:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

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

Summary Table of ISGS Site No. 2668A-9
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 346: US Route 41 (Skokie Highway) from IL Route 21 to West Park Avenue
Gurnee, Park City, Waukegan, and North Chicago, Lake County, Illinois

Field Sample ID	V9-1(0-3)-011415	V9-2(0-3)-011415	Soil Reference Concentrations ^A
Sample Date	1/14/2015	1/14/2015	
Location ID	V9-1	V9-2	
Depth	0 - 3	0 - 3	
ISGS Site Number	2668A-9	2668A-9	
Parameter			
Laboratory pH (s.u.)	8.62	8.84	<6.25,>9.0
VOCs (ug/kg)	None Detected		
SVOCs (ug/kg)			
Benzo(a)anthracene	44	18 J	900 / 1100 / 1800
Benzo(a)pyrene	48	20 J	90 / 1300 / 2100
Benzo(b)fluoranthene	82	39	900 / 1500 / 2100
Benzo(g,h,i)perylene	59	23 J	---
Benzo(k)fluoranthene	19 J	16 J	9000
Chrysene	53	23 J	88000
Dibenzo(a,h)anthracene	23 J	ND	90 / 200 / 420
Fluoranthene	49	ND	3100000
Indeno(1,2,3-cd)pyrene	42	17 J	900 / 900 / 1600
Pyrene	83	34 J	2300000
Total Metals (mg/kg)			
Antimony, Total	0.62 J	0.52 J	5
Arsenic, Total	12 J	7 J	11.3 / 13
Barium, Total	66 J	71 J	1500
Beryllium, Total	0.52	0.85	22
Cadmium, Total	0.74 J-	0.09 J	5.2
Calcium, Total	50000 J	4700 J	---
Chromium, Total	14	24	21
Cobalt, Total	8.6 J-	13 J-	20
Copper, Total	29	23	2900
Iron, Total	26000 J-	24000 J-	15000 / 15900
Lead, Total	59 J-	19 J-	107
Magnesium, Total	33000 J	5700 J	325000
Manganese, Total	970 J	630 J	630 / 636
Mercury, Total	0.028 J	0.023 J	0.89
Nickel, Total	22 J-	25 J-	100
Potassium, Total	1600 J+	2400 J+	---
Selenium, Total	0.6 J-	1 J-	1.3
Sodium, Total	1000 J-	730 J-	---
Thallium, Total	1.3 J-	0.87 J-	2.6
Vanadium, Total	23	31	550
Zinc, Total	99 J-	49 J-	5100
TCLP Metals (mg/l)			
Barium, TCLP	0.32 J	0.33 J	2
Copper, TCLP	ND	0.024 J	0.65
Manganese, TCLP	0.15	0.41	0.15
Zinc, TCLP	0.03 J	0.038 J	5
SPLP Metals (mg/l)			
Arsenic, SPLP	0.028 J	0.018 J	0.05
Barium, SPLP	0.31 J	0.23 J	2
Cadmium, SPLP	0.0022 J	ND	0.005
Chromium, SPLP	0.095	0.061	0.1
Cobalt, SPLP	0.019 J	0.011 J	1
Copper, SPLP	0.15	0.12	0.65
Iron, SPLP	88 J+	53 J+	5
Lead, SPLP	0.3	0.11	0.0075
Manganese, SPLP	0.61	0.32	0.15
Nickel, SPLP	0.089	0.052	0.1
Zinc, SPLP	0.52	0.3	5

Summary Table of ISGS Site No. 2668A-9
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 346: US Route 41 (Skokie Highway) from IL Route 21 to West Park Avenue
Gurnee, Park City, Waukegan, and North Chicago, Lake County, Illinois

Notes:

--- - not applicable or value not available.


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

ND - Constituent not detected above the reporting limit.

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: 500-90788-1
Client Project/Site: IDOT - Lake County - WO 001

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

Attn: Mr. S. Babusukumar



Authorized for release by:
1/23/2015 1:15:32 PM

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 - Lake County - WO 001

TestAmerica Job ID: 500-90788-1

Client Sample ID: V9-1(0-3)-011415

Lab Sample ID: 500-90788-2

Date Collected: 01/14/15 08:50

Matrix: Solid

Date Received: 01/15/15 07:30

Percent Solids: 85.7

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.8		5.8	2.5	ug/Kg	*		01/16/15 19:01	1
Benzene	<5.8		5.8	0.80	ug/Kg	*		01/16/15 19:01	1
Bromodichloromethane	<5.8		5.8	1.0	ug/Kg	*		01/16/15 19:01	1
Bromoform	<5.8		5.8	1.3	ug/Kg	*		01/16/15 19:01	1
Bromomethane	<5.8		5.8	1.8	ug/Kg	*		01/16/15 19:01	1
Carbon disulfide	<5.8		5.8	0.87	ug/Kg	*		01/16/15 19:01	1
Carbon tetrachloride	<5.8		5.8	1.1	ug/Kg	*		01/16/15 19:01	1
Chlorobenzene	<5.8		5.8	0.59	ug/Kg	*		01/16/15 19:01	1
Chloroethane	<5.8		5.8	1.6	ug/Kg	*		01/16/15 19:01	1
Chloroform	<5.8		5.8	0.67	ug/Kg	*		01/16/15 19:01	1
Chloromethane	<5.8		5.8	1.2	ug/Kg	*		01/16/15 19:01	1
cis-1,2-Dichloroethene	<5.8		5.8	0.82	ug/Kg	*		01/16/15 19:01	1
cis-1,3-Dichloropropene	<5.8		5.8	0.77	ug/Kg	*		01/16/15 19:01	1
Dibromochloromethane	<5.8		5.8	1.0	ug/Kg	*		01/16/15 19:01	1
1,1-Dichloroethane	<5.8		5.8	0.92	ug/Kg	*		01/16/15 19:01	1
1,2-Dichloroethane	<5.8		5.8	0.86	ug/Kg	*		01/16/15 19:01	1
1,1-Dichloroethene	<5.8		5.8	0.94	ug/Kg	*		01/16/15 19:01	1
1,2-Dichloropropane	<5.8		5.8	0.89	ug/Kg	*		01/16/15 19:01	1
1,3-Dichloropropene, Total	<5.8		5.8	0.77	ug/Kg	*		01/16/15 19:01	1
Ethylbenzene	<5.8		5.8	1.2	ug/Kg	*		01/16/15 19:01	1
2-Hexanone	<5.8		5.8	1.7	ug/Kg	*		01/16/15 19:01	1
Methylene Chloride	<5.8		5.8	1.6	ug/Kg	*		01/16/15 19:01	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	*		01/16/15 19:01	1
methyl isobutyl ketone	<5.8		5.8	1.5	ug/Kg	*		01/16/15 19:01	1
Methyl tert-butyl ether	<5.8		5.8	0.96	ug/Kg	*		01/16/15 19:01	1
Styrene	<5.8		5.8	0.77	ug/Kg	*		01/16/15 19:01	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	1.2	ug/Kg	*		01/16/15 19:01	1
Tetrachloroethene	<5.8		5.8	0.89	ug/Kg	*		01/16/15 19:01	1
Toluene	<5.8		5.8	0.82	ug/Kg	*		01/16/15 19:01	1
trans-1,2-Dichloroethene	<5.8		5.8	0.80	ug/Kg	*		01/16/15 19:01	1
trans-1,3-Dichloropropene	<5.8	*	5.8	1.0	ug/Kg	*		01/16/15 19:01	1
1,1,1-Trichloroethane	<5.8		5.8	0.87	ug/Kg	*		01/16/15 19:01	1
1,1,2-Trichloroethane	<5.8		5.8	0.80	ug/Kg	*		01/16/15 19:01	1
Trichloroethene	<5.8		5.8	0.96	ug/Kg	*		01/16/15 19:01	1
Vinyl chloride	<5.8		5.8	1.2	ug/Kg	*		01/16/15 19:01	1
Xylenes, Total	<12		12	0.53	ug/Kg	*		01/16/15 19:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122		01/16/15 19:01	1
Dibromofluoromethane	103		75 - 120		01/16/15 19:01	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134		01/16/15 19:01	1
Toluene-d8 (Surr)	96		75 - 122		01/16/15 19:01	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	*	01/15/15 16:05	01/22/15 22:01	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	*	01/15/15 16:05	01/22/15 22:01	1
1,3-Dichlorobenzene	<190		190	44	ug/Kg	*	01/15/15 16:05	01/22/15 22:01	1
1,4-Dichlorobenzene	<190		190	50	ug/Kg	*	01/15/15 16:05	01/22/15 22:01	1
2,2'-oxybis[1-chloropropane]	<190		190	45	ug/Kg	*	01/15/15 16:05	01/22/15 22:01	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90788-1

Client Sample ID: V9-1(0-3)-011415

Lab Sample ID: 500-90788-2

Date Collected: 01/14/15 08:50

Matrix: Solid

Date Received: 01/15/15 07:30

Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<390		390	88	ug/Kg	*	01/15/15 16:05	01/22/15 22:01	1
2,4,6-Trichlorophenol	<390		390	130	ug/Kg	*	01/15/15 16:05	01/22/15 22:01	1
2,4-Dichlorophenol	<390		390	92	ug/Kg	*	01/15/15 16:05	01/22/15 22:01	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	*	01/15/15 16:05	01/22/15 22:01	1
2,4-Dinitrophenol	<780		780	680	ug/Kg	*	01/15/15 16:05	01/22/15 22:01	1
2,4-Dinitrotoluene	<190		190	62	ug/Kg	*	01/15/15 16:05	01/22/15 22:01	1
2,6-Dinitrotoluene	<190		190	76	ug/Kg	*	01/15/15 16:05	01/22/15 22:01	1
2-Chloronaphthalene	<190		190	43	ug/Kg	*	01/15/15 16:05	01/22/15 22:01	1
2-Chlorophenol	<190		190	66	ug/Kg	*	01/15/15 16:05	01/22/15 22:01	1
2-Methylnaphthalene	<39		39	7.1	ug/Kg	*	01/15/15 16:05	01/22/15 22:01	1
2-Methylphenol	<190		190	62	ug/Kg	*	01/15/15 16:05	01/22/15 22:01	1
2-Nitroaniline	<190		190	52	ug/Kg	*	01/15/15 16:05	01/22/15 22:01	1
2-Nitrophenol	<390		390	92	ug/Kg	*	01/15/15 16:05	01/22/15 22:01	1
3 & 4 Methylphenol	<190		190	65	ug/Kg	*	01/15/15 16:05	01/22/15 22:01	1
3,3'-Dichlorobenzidine	<190		190	54	ug/Kg	*	01/15/15 16:05	01/22/15 22:01	1
3-Nitroaniline	<390		390	120	ug/Kg	*	01/15/15 16:05	01/22/15 22:01	1
4,6-Dinitro-2-methylphenol	<390		390	310	ug/Kg	*	01/15/15 16:05	01/22/15 22:01	1
4-Bromophenyl phenyl ether	<190		190	51	ug/Kg	*	01/15/15 16:05	01/22/15 22:01	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	*	01/15/15 16:05	01/22/15 22:01	1
4-Chloroaniline	<780		780	180	ug/Kg	*	01/15/15 16:05	01/22/15 22:01	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	*	01/15/15 16:05	01/22/15 22:01	1
4-Nitroaniline	<390		390	160	ug/Kg	*	01/15/15 16:05	01/22/15 22:01	1
4-Nitrophenol	<780		780	370	ug/Kg	*	01/15/15 16:05	01/22/15 22:01	1
Acenaphthene	<39		39	7.0	ug/Kg	*	01/15/15 16:05	01/22/15 22:01	1
Acenaphthylene	<39		39	5.1	ug/Kg	*	01/15/15 16:05	01/22/15 22:01	1
Anthracene	<39		39	6.5	ug/Kg	*	01/15/15 16:05	01/22/15 22:01	1
Benzo[a]anthracene	44		39	5.2	ug/Kg	*	01/15/15 16:05	01/22/15 22:01	1
Benzo[a]pyrene	48		39	7.5	ug/Kg	*	01/15/15 16:05	01/22/15 22:01	1
Benzo[b]fluoranthene	82		39	8.4	ug/Kg	*	01/15/15 16:05	01/22/15 22:01	1
Benzo[g,h,i]perylene	59		39	12	ug/Kg	*	01/15/15 16:05	01/22/15 22:01	1
Benzo[k]fluoranthene	19 J		39	11	ug/Kg	*	01/15/15 16:05	01/22/15 22:01	1
Bis(2-chloroethoxy)methane	<190		190	40	ug/Kg	*	01/15/15 16:05	01/22/15 22:01	1
Bis(2-chloroethyl)ether	<190		190	58	ug/Kg	*	01/15/15 16:05	01/22/15 22:01	1
Bis(2-ethylhexyl) phthalate	<190		190	71	ug/Kg	*	01/15/15 16:05	01/22/15 22:01	1
Butyl benzyl phthalate	<190		190	74	ug/Kg	*	01/15/15 16:05	01/22/15 22:01	1
Carbazole	<190		190	100	ug/Kg	*	01/15/15 16:05	01/22/15 22:01	1
Chrysene	53		39	11	ug/Kg	*	01/15/15 16:05	01/22/15 22:01	1
Dibenz(a,h)anthracene	23 J		39	7.5	ug/Kg	*	01/15/15 16:05	01/22/15 22:01	1
Dibenzofuran	<190		190	45	ug/Kg	*	01/15/15 16:05	01/22/15 22:01	1
Diethyl phthalate	<190		190	66	ug/Kg	*	01/15/15 16:05	01/22/15 22:01	1
Dimethyl phthalate	<190		190	51	ug/Kg	*	01/15/15 16:05	01/22/15 22:01	1
Di-n-butyl phthalate	<190		190	59	ug/Kg	*	01/15/15 16:05	01/22/15 22:01	1
Di-n-octyl phthalate	<190		190	63	ug/Kg	*	01/15/15 16:05	01/22/15 22:01	1
Fluoranthene	49		39	7.2	ug/Kg	*	01/15/15 16:05	01/22/15 22:01	1
Fluorene	<39		39	5.4	ug/Kg	*	01/15/15 16:05	01/22/15 22:01	1
Hexachlorobenzene	<78		78	9.0	ug/Kg	*	01/15/15 16:05	01/22/15 22:01	1
Hexachlorobutadiene	<190		190	61	ug/Kg	*	01/15/15 16:05	01/22/15 22:01	1
Hexachlorocyclopentadiene	<780		780	220	ug/Kg	*	01/15/15 16:05	01/22/15 22:01	1
Hexachloroethane	<190		190	59	ug/Kg	*	01/15/15 16:05	01/22/15 22:01	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90788-1

Client Sample ID: V9-1(0-3)-011415

Lab Sample ID: 500-90788-2

Date Collected: 01/14/15 08:50

Matrix: Solid

Date Received: 01/15/15 07:30

Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	42		39	10	ug/Kg	☼	01/15/15 16:05	01/22/15 22:01	1
Isophorone	<190		190	44	ug/Kg	☼	01/15/15 16:05	01/22/15 22:01	1
Naphthalene	<39		39	6.0	ug/Kg	☼	01/15/15 16:05	01/22/15 22:01	1
Nitrobenzene	<39		39	9.7	ug/Kg	☼	01/15/15 16:05	01/22/15 22:01	1
N-Nitrosodi-n-propylamine	<190		190	47	ug/Kg	☼	01/15/15 16:05	01/22/15 22:01	1
N-Nitrosodiphenylamine	<190		190	46	ug/Kg	☼	01/15/15 16:05	01/22/15 22:01	1
Pentachlorophenol	<780		780	620	ug/Kg	☼	01/15/15 16:05	01/22/15 22:01	1
Phenanthrene	<39		39	5.4	ug/Kg	☼	01/15/15 16:05	01/22/15 22:01	1
Phenol	<190		190	86	ug/Kg	☼	01/15/15 16:05	01/22/15 22:01	1
Pyrene	83		39	7.7	ug/Kg	☼	01/15/15 16:05	01/22/15 22:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	31	X	35 - 137				01/15/15 16:05	01/22/15 22:01	1
2-Fluorobiphenyl	36		25 - 119				01/15/15 16:05	01/22/15 22:01	1
2-Fluorophenol	32		25 - 110				01/15/15 16:05	01/22/15 22:01	1
Nitrobenzene-d5	29		25 - 115				01/15/15 16:05	01/22/15 22:01	1
Phenol-d5	34		31 - 110				01/15/15 16:05	01/22/15 22:01	1
Terphenyl-d14	45		36 - 134				01/15/15 16:05	01/22/15 22:01	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/19/15 08:00	01/19/15 22:50	1
Barium	0.32	J	0.50	0.050	mg/L		01/19/15 08:00	01/19/15 22:50	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/19/15 08:00	01/19/15 22:50	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/19/15 08:00	01/19/15 22:50	1
Chromium	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/19/15 22:50	1
Cobalt	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/19/15 22:50	1
Copper	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/19/15 22:50	1
Iron	<0.20		0.20	0.20	mg/L		01/19/15 08:00	01/19/15 22:50	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/19/15 08:00	01/19/15 22:50	1
Manganese	0.15		0.025	0.010	mg/L		01/19/15 08:00	01/19/15 22:50	1
Nickel	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/19/15 22:50	1
Selenium	<0.050		0.050	0.020	mg/L		01/19/15 08:00	01/19/15 22:50	1
Silver	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/19/15 22:50	1
Zinc	0.030	J	0.10	0.020	mg/L		01/19/15 08:00	01/19/15 22:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.028	J	0.050	0.010	mg/L		01/20/15 08:00	01/20/15 22:36	1
Barium	0.31	J	0.50	0.050	mg/L		01/20/15 08:00	01/20/15 22:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/20/15 08:00	01/20/15 22:36	1
Cadmium	0.0022	J	0.0050	0.0020	mg/L		01/20/15 08:00	01/20/15 22:36	1
Chromium	0.095		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 22:36	1
Cobalt	0.019	J	0.025	0.010	mg/L		01/20/15 08:00	01/20/15 22:36	1
Copper	0.15		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 22:36	1
Iron	88		0.20	0.20	mg/L		01/20/15 08:00	01/20/15 22:36	1
Lead	0.30		0.038	0.038	mg/L		01/20/15 08:00	01/22/15 10:58	5
Manganese	0.61		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 22:36	1
Nickel	0.089		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 22:36	1
Selenium	<0.050		0.050	0.020	mg/L		01/20/15 08:00	01/20/15 22:36	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90788-1

Client Sample ID: V9-1(0-3)-011415

Lab Sample ID: 500-90788-2

Date Collected: 01/14/15 08:50

Matrix: Solid

Date Received: 01/15/15 07:30

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		01/20/15 08:00	01/20/15 22:36	1
Zinc	0.52		0.10	0.020	mg/L		01/20/15 08:00	01/20/15 22:36	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.62	J	1.1	0.23	mg/Kg	☼	01/18/15 16:30	01/20/15 01:42	1
Arsenic	12		0.56	0.26	mg/Kg	☼	01/18/15 16:30	01/20/15 01:42	1
Barium	66		0.56	0.10	mg/Kg	☼	01/18/15 16:30	01/20/15 01:42	1
Beryllium	0.52		0.22	0.048	mg/Kg	☼	01/18/15 16:30	01/20/15 01:42	1
Cadmium	0.74		0.11	0.032	mg/Kg	☼	01/18/15 16:30	01/20/15 01:42	1
Calcium	50000		11	3.6	mg/Kg	☼	01/18/15 16:30	01/20/15 01:42	1
Chromium	14		0.56	0.096	mg/Kg	☼	01/18/15 16:30	01/20/15 01:42	1
Cobalt	8.6		0.28	0.063	mg/Kg	☼	01/18/15 16:30	01/20/15 01:42	1
Copper	29		0.56	0.12	mg/Kg	☼	01/18/15 16:30	01/20/15 01:42	1
Iron	26000		11	4.3	mg/Kg	☼	01/18/15 16:30	01/20/15 01:42	1
Lead	59		0.28	0.14	mg/Kg	☼	01/18/15 16:30	01/20/15 01:42	1
Magnesium	33000		5.6	2.3	mg/Kg	☼	01/18/15 16:30	01/20/15 01:42	1
Manganese	970		0.56	0.11	mg/Kg	☼	01/18/15 16:30	01/20/15 01:42	1
Nickel	22		0.56	0.15	mg/Kg	☼	01/18/15 16:30	01/20/15 01:42	1
Potassium	1600		28	4.6	mg/Kg	☼	01/18/15 16:30	01/20/15 01:42	1
Selenium	0.60		0.56	0.28	mg/Kg	☼	01/18/15 16:30	01/20/15 01:42	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	01/18/15 16:30	01/20/15 01:42	1
Sodium	1000		56	7.4	mg/Kg	☼	01/18/15 16:30	01/20/15 01:42	1
Thallium	1.3		0.56	0.27	mg/Kg	☼	01/18/15 16:30	01/20/15 01:42	1
Vanadium	23		0.28	0.081	mg/Kg	☼	01/18/15 16:30	01/20/15 01:42	1
Zinc	99	B	1.1	0.35	mg/Kg	☼	01/18/15 16:30	01/20/15 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		01/19/15 11:30	01/20/15 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		01/19/15 11:30	01/20/15 10:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	28		19	7.6	ug/Kg	☼	01/15/15 13:00	01/16/15 08:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.62		0.200	0.200	SU			01/19/15 11:08	1

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90788-1

Client Sample ID: V9-2(0-3)-011415

Lab Sample ID: 500-90788-3

Date Collected: 01/14/15 09:05

Matrix: Solid

Date Received: 01/15/15 07:30

Percent Solids: 83.2

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<6.0		6.0	2.6	ug/Kg	☼		01/16/15 19:27	1
Benzene	<6.0		6.0	0.82	ug/Kg	☼		01/16/15 19:27	1
Bromodichloromethane	<6.0		6.0	1.0	ug/Kg	☼		01/16/15 19:27	1
Bromoform	<6.0		6.0	1.4	ug/Kg	☼		01/16/15 19:27	1
Bromomethane	<6.0		6.0	1.8	ug/Kg	☼		01/16/15 19:27	1
Carbon disulfide	<6.0		6.0	0.90	ug/Kg	☼		01/16/15 19:27	1
Carbon tetrachloride	<6.0		6.0	1.1	ug/Kg	☼		01/16/15 19:27	1
Chlorobenzene	<6.0		6.0	0.61	ug/Kg	☼		01/16/15 19:27	1
Chloroethane	<6.0		6.0	1.6	ug/Kg	☼		01/16/15 19:27	1
Chloroform	<6.0		6.0	0.69	ug/Kg	☼		01/16/15 19:27	1
Chloromethane	<6.0		6.0	1.3	ug/Kg	☼		01/16/15 19:27	1
cis-1,2-Dichloroethene	<6.0		6.0	0.85	ug/Kg	☼		01/16/15 19:27	1
cis-1,3-Dichloropropene	<6.0		6.0	0.79	ug/Kg	☼		01/16/15 19:27	1
Dibromochloromethane	<6.0		6.0	1.0	ug/Kg	☼		01/16/15 19:27	1
1,1-Dichloroethane	<6.0		6.0	0.95	ug/Kg	☼		01/16/15 19:27	1
1,2-Dichloroethane	<6.0		6.0	0.89	ug/Kg	☼		01/16/15 19:27	1
1,1-Dichloroethene	<6.0		6.0	0.97	ug/Kg	☼		01/16/15 19:27	1
1,2-Dichloropropane	<6.0		6.0	0.91	ug/Kg	☼		01/16/15 19:27	1
1,3-Dichloropropene, Total	<6.0		6.0	0.79	ug/Kg	☼		01/16/15 19:27	1
Ethylbenzene	<6.0		6.0	1.2	ug/Kg	☼		01/16/15 19:27	1
2-Hexanone	<6.0		6.0	1.7	ug/Kg	☼		01/16/15 19:27	1
Methylene Chloride	<6.0		6.0	1.6	ug/Kg	☼		01/16/15 19:27	1
Methyl Ethyl Ketone	<6.0		6.0	2.2	ug/Kg	☼		01/16/15 19:27	1
methyl isobutyl ketone	<6.0		6.0	1.6	ug/Kg	☼		01/16/15 19:27	1
Methyl tert-butyl ether	<6.0		6.0	0.99	ug/Kg	☼		01/16/15 19:27	1
Styrene	<6.0		6.0	0.79	ug/Kg	☼		01/16/15 19:27	1
1,1,1,2-Tetrachloroethane	<6.0		6.0	1.2	ug/Kg	☼		01/16/15 19:27	1
Tetrachloroethene	<6.0		6.0	0.92	ug/Kg	☼		01/16/15 19:27	1
Toluene	<6.0		6.0	0.84	ug/Kg	☼		01/16/15 19:27	1
trans-1,2-Dichloroethene	<6.0		6.0	0.83	ug/Kg	☼		01/16/15 19:27	1
trans-1,3-Dichloropropene	<6.0 *		6.0	1.1	ug/Kg	☼		01/16/15 19:27	1
1,1,1-Trichloroethane	<6.0		6.0	0.90	ug/Kg	☼		01/16/15 19:27	1
1,1,2-Trichloroethane	<6.0		6.0	0.82	ug/Kg	☼		01/16/15 19:27	1
Trichloroethene	<6.0		6.0	0.99	ug/Kg	☼		01/16/15 19:27	1
Vinyl chloride	<6.0		6.0	1.3	ug/Kg	☼		01/16/15 19:27	1
Xylenes, Total	<12		12	0.54	ug/Kg	☼		01/16/15 19:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122		01/16/15 19:27	1
Dibromofluoromethane	102		75 - 120		01/16/15 19:27	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134		01/16/15 19:27	1
Toluene-d8 (Surr)	97		75 - 122		01/16/15 19:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<200		200	43	ug/Kg	☼	01/15/15 16:05	01/22/15 22:22	1
1,2-Dichlorobenzene	<200		200	47	ug/Kg	☼	01/15/15 16:05	01/22/15 22:22	1
1,3-Dichlorobenzene	<200		200	44	ug/Kg	☼	01/15/15 16:05	01/22/15 22:22	1
1,4-Dichlorobenzene	<200		200	51	ug/Kg	☼	01/15/15 16:05	01/22/15 22:22	1
2,2'-oxybis[1-chloropropane]	<200		200	46	ug/Kg	☼	01/15/15 16:05	01/22/15 22:22	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90788-1

Client Sample ID: V9-2(0-3)-011415

Lab Sample ID: 500-90788-3

Date Collected: 01/14/15 09:05

Matrix: Solid

Date Received: 01/15/15 07:30

Percent Solids: 83.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<390		390	90	ug/Kg	☼	01/15/15 16:05	01/22/15 22:22	1
2,4,6-Trichlorophenol	<390		390	140	ug/Kg	☼	01/15/15 16:05	01/22/15 22:22	1
2,4-Dichlorophenol	<390		390	94	ug/Kg	☼	01/15/15 16:05	01/22/15 22:22	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	01/15/15 16:05	01/22/15 22:22	1
2,4-Dinitrophenol	<800		800	690	ug/Kg	☼	01/15/15 16:05	01/22/15 22:22	1
2,4-Dinitrotoluene	<200		200	63	ug/Kg	☼	01/15/15 16:05	01/22/15 22:22	1
2,6-Dinitrotoluene	<200		200	78	ug/Kg	☼	01/15/15 16:05	01/22/15 22:22	1
2-Chloronaphthalene	<200		200	44	ug/Kg	☼	01/15/15 16:05	01/22/15 22:22	1
2-Chlorophenol	<200		200	67	ug/Kg	☼	01/15/15 16:05	01/22/15 22:22	1
2-Methylnaphthalene	<39		39	7.3	ug/Kg	☼	01/15/15 16:05	01/22/15 22:22	1
2-Methylphenol	<200		200	63	ug/Kg	☼	01/15/15 16:05	01/22/15 22:22	1
2-Nitroaniline	<200		200	53	ug/Kg	☼	01/15/15 16:05	01/22/15 22:22	1
2-Nitrophenol	<390		390	93	ug/Kg	☼	01/15/15 16:05	01/22/15 22:22	1
3 & 4 Methylphenol	<200		200	66	ug/Kg	☼	01/15/15 16:05	01/22/15 22:22	1
3,3'-Dichlorobenzidine	<200		200	55	ug/Kg	☼	01/15/15 16:05	01/22/15 22:22	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	01/15/15 16:05	01/22/15 22:22	1
4,6-Dinitro-2-methylphenol	<390		390	320	ug/Kg	☼	01/15/15 16:05	01/22/15 22:22	1
4-Bromophenyl phenyl ether	<200		200	52	ug/Kg	☼	01/15/15 16:05	01/22/15 22:22	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	01/15/15 16:05	01/22/15 22:22	1
4-Chloroaniline	<800		800	190	ug/Kg	☼	01/15/15 16:05	01/22/15 22:22	1
4-Chlorophenyl phenyl ether	<200		200	46	ug/Kg	☼	01/15/15 16:05	01/22/15 22:22	1
4-Nitroaniline	<390		390	170	ug/Kg	☼	01/15/15 16:05	01/22/15 22:22	1
4-Nitrophenol	<800		800	380	ug/Kg	☼	01/15/15 16:05	01/22/15 22:22	1
Acenaphthene	<39		39	7.1	ug/Kg	☼	01/15/15 16:05	01/22/15 22:22	1
Acenaphthylene	<39		39	5.2	ug/Kg	☼	01/15/15 16:05	01/22/15 22:22	1
Anthracene	<39		39	6.6	ug/Kg	☼	01/15/15 16:05	01/22/15 22:22	1
Benzo[a]anthracene	18 J		39	5.3	ug/Kg	☼	01/15/15 16:05	01/22/15 22:22	1
Benzo[a]pyrene	20 J		39	7.6	ug/Kg	☼	01/15/15 16:05	01/22/15 22:22	1
Benzo[b]fluoranthene	39		39	8.5	ug/Kg	☼	01/15/15 16:05	01/22/15 22:22	1
Benzo[g,h,i]perylene	23 J		39	13	ug/Kg	☼	01/15/15 16:05	01/22/15 22:22	1
Benzo[k]fluoranthene	16 J		39	12	ug/Kg	☼	01/15/15 16:05	01/22/15 22:22	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	☼	01/15/15 16:05	01/22/15 22:22	1
Bis(2-chloroethyl)ether	<200		200	59	ug/Kg	☼	01/15/15 16:05	01/22/15 22:22	1
Bis(2-ethylhexyl) phthalate	<200		200	72	ug/Kg	☼	01/15/15 16:05	01/22/15 22:22	1
Butyl benzyl phthalate	<200		200	75	ug/Kg	☼	01/15/15 16:05	01/22/15 22:22	1
Carbazole	<200		200	100	ug/Kg	☼	01/15/15 16:05	01/22/15 22:22	1
Chrysene	23 J		39	11	ug/Kg	☼	01/15/15 16:05	01/22/15 22:22	1
Dibenz(a,h)anthracene	<39		39	7.6	ug/Kg	☼	01/15/15 16:05	01/22/15 22:22	1
Dibenzofuran	<200		200	46	ug/Kg	☼	01/15/15 16:05	01/22/15 22:22	1
Diethyl phthalate	<200		200	67	ug/Kg	☼	01/15/15 16:05	01/22/15 22:22	1
Dimethyl phthalate	<200		200	52	ug/Kg	☼	01/15/15 16:05	01/22/15 22:22	1
Di-n-butyl phthalate	<200		200	60	ug/Kg	☼	01/15/15 16:05	01/22/15 22:22	1
Di-n-octyl phthalate	<200		200	64	ug/Kg	☼	01/15/15 16:05	01/22/15 22:22	1
Fluoranthene	<39		39	7.3	ug/Kg	☼	01/15/15 16:05	01/22/15 22:22	1
Fluorene	<39		39	5.5	ug/Kg	☼	01/15/15 16:05	01/22/15 22:22	1
Hexachlorobenzene	<80		80	9.1	ug/Kg	☼	01/15/15 16:05	01/22/15 22:22	1
Hexachlorobutadiene	<200		200	62	ug/Kg	☼	01/15/15 16:05	01/22/15 22:22	1
Hexachlorocyclopentadiene	<800		800	230	ug/Kg	☼	01/15/15 16:05	01/22/15 22:22	1
Hexachloroethane	<200		200	60	ug/Kg	☼	01/15/15 16:05	01/22/15 22:22	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90788-1

Client Sample ID: V9-2(0-3)-011415

Lab Sample ID: 500-90788-3

Date Collected: 01/14/15 09:05

Matrix: Solid

Date Received: 01/15/15 07:30

Percent Solids: 83.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	17	J	39	10	ug/Kg	☼	01/15/15 16:05	01/22/15 22:22	1
Isophorone	<200		200	44	ug/Kg	☼	01/15/15 16:05	01/22/15 22:22	1
Naphthalene	<39		39	6.1	ug/Kg	☼	01/15/15 16:05	01/22/15 22:22	1
Nitrobenzene	<39		39	9.8	ug/Kg	☼	01/15/15 16:05	01/22/15 22:22	1
N-Nitrosodi-n-propylamine	<200		200	48	ug/Kg	☼	01/15/15 16:05	01/22/15 22:22	1
N-Nitrosodiphenylamine	<200		200	47	ug/Kg	☼	01/15/15 16:05	01/22/15 22:22	1
Pentachlorophenol	<800		800	630	ug/Kg	☼	01/15/15 16:05	01/22/15 22:22	1
Phenanthrene	<39		39	5.5	ug/Kg	☼	01/15/15 16:05	01/22/15 22:22	1
Phenol	<200		200	88	ug/Kg	☼	01/15/15 16:05	01/22/15 22:22	1
Pyrene	34	J	39	7.8	ug/Kg	☼	01/15/15 16:05	01/22/15 22:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>2,4,6-Tribromophenol</i>	44		35 - 137				01/15/15 16:05	01/22/15 22:22	1
<i>2-Fluorobiphenyl</i>	55		25 - 119				01/15/15 16:05	01/22/15 22:22	1
<i>2-Fluorophenol</i>	52		25 - 110				01/15/15 16:05	01/22/15 22:22	1
<i>Nitrobenzene-d5</i>	47		25 - 115				01/15/15 16:05	01/22/15 22:22	1
<i>Phenol-d5</i>	56		31 - 110				01/15/15 16:05	01/22/15 22:22	1
<i>Terphenyl-d14</i>	83		36 - 134				01/15/15 16:05	01/22/15 22:22	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/19/15 08:00	01/19/15 22:56	1
Barium	0.33	J	0.50	0.050	mg/L		01/19/15 08:00	01/19/15 22:56	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/19/15 08:00	01/19/15 22:56	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/19/15 08:00	01/19/15 22:56	1
Chromium	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/19/15 22:56	1
Cobalt	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/19/15 22:56	1
Copper	0.024	J	0.025	0.010	mg/L		01/19/15 08:00	01/19/15 22:56	1
Iron	<0.20		0.20	0.20	mg/L		01/19/15 08:00	01/19/15 22:56	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/19/15 08:00	01/19/15 22:56	1
Manganese	0.41		0.025	0.010	mg/L		01/19/15 08:00	01/19/15 22:56	1
Nickel	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/19/15 22:56	1
Selenium	<0.050		0.050	0.020	mg/L		01/19/15 08:00	01/19/15 22:56	1
Silver	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/19/15 22:56	1
Zinc	0.038	J	0.10	0.020	mg/L		01/19/15 08:00	01/19/15 22:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.018	J	0.050	0.010	mg/L		01/20/15 08:00	01/20/15 22:40	1
Barium	0.23	J	0.50	0.050	mg/L		01/20/15 08:00	01/20/15 22:40	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/20/15 08:00	01/20/15 22:40	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/20/15 08:00	01/20/15 22:40	1
Chromium	0.061		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 22:40	1
Cobalt	0.011	J	0.025	0.010	mg/L		01/20/15 08:00	01/20/15 22:40	1
Copper	0.12		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 22:40	1
Iron	53		0.20	0.20	mg/L		01/20/15 08:00	01/20/15 22:40	1
Lead	0.11		0.0075	0.0075	mg/L		01/20/15 08:00	01/20/15 22:40	1
Manganese	0.32		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 22:40	1
Nickel	0.052		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 22:40	1
Selenium	<0.050		0.050	0.020	mg/L		01/20/15 08:00	01/20/15 22:40	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90788-1

Client Sample ID: V9-2(0-3)-011415

Lab Sample ID: 500-90788-3

Date Collected: 01/14/15 09:05

Matrix: Solid

Date Received: 01/15/15 07:30

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		01/20/15 08:00	01/20/15 22:40	1
Zinc	0.30		0.10	0.020	mg/L		01/20/15 08:00	01/20/15 22:40	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.52	J	1.2	0.24	mg/Kg	☼	01/18/15 16:30	01/20/15 01:48	1
Arsenic	7.0		0.59	0.27	mg/Kg	☼	01/18/15 16:30	01/20/15 01:48	1
Barium	71		0.59	0.11	mg/Kg	☼	01/18/15 16:30	01/20/15 01:48	1
Beryllium	0.85		0.24	0.051	mg/Kg	☼	01/18/15 16:30	01/20/15 01:48	1
Cadmium	0.090	J	0.12	0.034	mg/Kg	☼	01/18/15 16:30	01/20/15 01:48	1
Calcium	4700		12	3.8	mg/Kg	☼	01/18/15 16:30	01/20/15 01:48	1
Chromium	24		0.59	0.10	mg/Kg	☼	01/18/15 16:30	01/20/15 01:48	1
Cobalt	13		0.29	0.066	mg/Kg	☼	01/18/15 16:30	01/20/15 01:48	1
Copper	23		0.59	0.13	mg/Kg	☼	01/18/15 16:30	01/20/15 01:48	1
Iron	24000		12	4.5	mg/Kg	☼	01/18/15 16:30	01/20/15 01:48	1
Lead	19		0.29	0.15	mg/Kg	☼	01/18/15 16:30	01/20/15 01:48	1
Magnesium	5700		5.9	2.4	mg/Kg	☼	01/18/15 16:30	01/20/15 01:48	1
Manganese	630		0.59	0.12	mg/Kg	☼	01/18/15 16:30	01/20/15 01:48	1
Nickel	25		0.59	0.16	mg/Kg	☼	01/18/15 16:30	01/20/15 01:48	1
Potassium	2400		29	4.8	mg/Kg	☼	01/18/15 16:30	01/20/15 01:48	1
Selenium	1.0		0.59	0.29	mg/Kg	☼	01/18/15 16:30	01/20/15 01:48	1
Silver	<0.29		0.29	0.069	mg/Kg	☼	01/18/15 16:30	01/20/15 01:48	1
Sodium	730		59	7.8	mg/Kg	☼	01/18/15 16:30	01/20/15 01:48	1
Thallium	0.87		0.59	0.29	mg/Kg	☼	01/18/15 16:30	01/20/15 01:48	1
Vanadium	31		0.29	0.086	mg/Kg	☼	01/18/15 16:30	01/20/15 01:48	1
Zinc	49	B	1.2	0.37	mg/Kg	☼	01/18/15 16:30	01/20/15 01:48	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		01/19/15 11:30	01/20/15 09:35	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		01/19/15 11:30	01/20/15 10:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	23		18	7.2	ug/Kg	☼	01/15/15 13:00	01/16/15 08:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.84		0.200	0.200	SU			01/19/15 11:12	1

Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90788-1

Qualifiers

GC/MS VOA

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

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.
X	Surrogate is outside control limits
F1	MS and/or MSD Recovery exceeds the control limits
F2	MS/MSD RPD exceeds control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
F1	MS and/or MSD Recovery exceeds the 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.
F2	MS/MSD RPD exceeds control 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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90788-1

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-15

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

Analysis Method	Prep Method	Matrix	Analyte
7470A	7470A	Solid	Mercury
8260B		Solid	1,3-Dichloropropene, Total
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



500-90788 COC

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

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

Chain of Custody Record

Lab Job #: 500-90788
Chain of Custody Number:
Page 1 of 3
Temperature °C of Cooler: 3.2 / 2.8

Client		Client Project #		Preservative		7		7		7		7		7		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		VOCs		SVOCs		Total Metals		TCUP/SPLP Metals		PH		
Project Location/State		Lab PM														
Sampler																
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix										Comments
1		SA-1(0-3)-011415	1/14/15	0830	2	S	X	X	X	X	X					
2		V9-1(0-3)-011415		0850												
3		V9-2(0-3)-011415		0905												
4		V9-3(0-3)-011415		0920												
5		TM-1(0-3)-011415		0940												
6		UC-3(0-3)-011415		1005												
7		UC-4(0-3)-011415		1025												
8		UC-4(0-3)-011415D		1025												
9		RE-1(0-3)-011415		1040												
10		RE-2(0-3)-011415		1055												

Turnaround Time Required (Business Days)

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

Requested Due Date

Sample Disposal

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

Relinquished By <u>M. Strow</u>	Company <u>Weston</u>	Date <u>1/14/15</u>	Time <u>1540</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>1/14/15</u>	Time <u>1530</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>1/14/15</u>	Time <u>1720</u>	Received By <u>[Signature]</u>	Company <u>TA-CAT</u>	Date <u>1/15/15</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: S. Babusukumar
Company: Weston
Address: 300 Plaza Circle Ste 202
Address: Mundelein, IL 60060
Phone: (224) 864-7200
Fax:
E-Mail:

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

Chain of Custody Record

Lab Job #: 500-90788

Chain of Custody Number: _____

Page 2 of 3

Temperature °C of Cooler: _____

Client		Client Project #		Preservative		7		7		7		7		7		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		7		7		7		7		7		Comments		
Project Location/State		Lab Project #		VOCs		SVOCs		Total Metals		TCUP/SPLP Metals		PH				
Sampler		Lab PM														
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix										
11		RE-3 (0-3) - 011415	1/14/15	1105	2 S		X	X	X	X	X					
12		RE-4 (0-3) - 011415		1125												
13		RE-5 (0-3) - 011415		1135												
14		RE-6 (0-3) - 011415		1145												
15		RE-7 (0-3) - 011415		1200												
16		LC-8 (0-3) - 011415		1300												
17		LC-7 (0-3) - 011415		1310												
18		LC-6 (0-3) - 011415		1320												
19		LC-5 (0-3) - 011415		1340												
20		LC-5 (0-3) - 011415D		1340												

Turnaround Time Required (Business Days)

___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days ___ Standard ___ 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>Weston</u>	Company <u>Weston</u>	Date <u>1/14/15</u>	Time <u>1540</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>1/14/15</u>	Time <u>1540</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>1/14/15</u>	Time <u>1720</u>	Received By <u>[Signature]</u>	Company <u>TA-CRT</u>	Date <u>1/15/15</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:



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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 346: US 41 from IL 21 to West Park Ave Office Phone Number, if available: _____

Physical Site Location (address, including number and street):
35900 to 36000 blocks of US 41

City: Warren Township State: IL Zip Code: _____

County: Lake Township: _____

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

Latitude: 42.3848745 Longitude: -87.92051201
(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: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

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

Project Name: FAP 346: US 41 from IL 21 to West Park Ave

Latitude: 42.3848745 Longitude: -87.92051201

Uncontaminated Site Certification

III. Basis for Certification and Attachments

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

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

LOCATIONS UC-1 AND UC-4 WERE SAMPLED ADJACENT TO ISGS SITE No. 2668A-10. SEE FIGURE 3-1 AND TABLE 4-1 OF THE REVISED 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]:

TEST AMERICA ANALYTICAL REPORT - JOB ID: 500-90788-1 AND
 TEST AMERICA ANALYTICAL REPORT - JOB ID: 500-90789-1.

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

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

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

Company Name: Illinois Department of Transportation

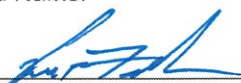
Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Kurt T. Fischer P.G.

Printed Name:



2/9/15

Date:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

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

Summary Table of ISGS Site No. 2668A-10
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 346: US Route 41 (Skokie Highway) from IL Route 21 to West Park Avenue
Gurnee, Park City, Waukegan, and North Chicago, Lake County, Illinois

Field Sample ID	UC-1(0-3)-011415	UC-1(0-3)-011415D	UC-4(0-3)-011415	UC-4(0-3)-011415D	Soil Reference Concentrations ^A
Sample Date	1/14/2015	1/14/2015	1/14/2015	1/14/2015	
Location ID	UC-1	UC-1	UC-4	UC-4	
Depth	0 - 3	0 - 3	0 - 3	0 - 3	
ISGS Site Number	2668A-10	2668A-10	2668A-10	2668A-10	
Parameter					
Laboratory pH (s.u.)	8.31	8.32	8.44	8.37	<6.25,>9.0
VOCs (ug/kg)					
Acetone	ND	ND	6.8	11	25000
SVOCs (ug/kg)					
Benzo(a)anthracene	7.5 J	7 J	ND	ND	900 / 1100 / 1800
Benzo(b)fluoranthene	9.2 J	11 J	ND	ND	900 / 1500 / 2100
Di-N-Octyl phthalate	ND	ND	140 J	ND	1600000
Fluoranthene	9.9 J	11 J	ND	ND	3100000
Pyrene	8.9 J	11 J	ND	ND	2300000
Total Metals (mg/kg)					
Antimony, Total	1.1 R	1.1 R	0.38 J	0.66 J	5
Arsenic, Total	6.5 J	5.8 J	4.7 J	6.2 J	11.3 / 13
Barium, Total	35 J	41 J	24 J	54 J	1500
Beryllium, Total	0.47 J-	0.62 J-	0.64	0.71	22
Cadmium, Total	0.12 J-	0.034 J	0.26 J-	0.32 J-	5.2
Calcium, Total	96000 J	73000 J	19000 J	49000 J	---
Chromium, Total	13	17	18	20	21
Cobalt, Total	12	11	6.7 J-	8.9 J-	20
Copper, Total	21	22	17	22	2900
Iron, Total	16000 J	17000 J	18000 J-	20000 J-	15000 / 15900
Lead, Total	16 J	15 J	10 J-	10 J-	107
Magnesium, Total	36000 J	31000 J	12000 J	29000 J	325000
Manganese, Total	580 J	410 J	350 J	620 J	630 / 636
Mercury, Total	0.022	0.016 J	0.027	0.022	0.89
Nickel, Total	27	28	18 J-	25 J-	100
Potassium, Total	1500 J+	1800 J+	2000 J+	3600 J+	---
Selenium, Total	0.33 J	0.38 J	0.72 J-	0.36 J	1.3
Sodium, Total	1600 J-	2100 J-	1900 J-	1800 J-	---
Thallium, Total	ND	ND	0.67 J-	0.8 J-	2.6
Vanadium, Total	15	19	26	23	550
Zinc, Total	64	62	48 J-	46 J-	5100
TCLP Metals (mg/l)					
Barium, TCLP	0.36 J	0.33 J	0.27 J	0.32 J	2
Cadmium, TCLP	0.0025 J	0.0023 J	ND	ND	0.005
Cobalt, TCLP	ND	ND	0.012 J	0.011 J	1
Copper, TCLP	0.25 J	0.019 J	0.027 J	0.24 J	0.65
Iron, TCLP	0.32	0.2	ND	0.48 J	5
Lead, TCLP	0.017 J	ND	ND	0.014 J	0.0075
Manganese, TCLP	3.8	3.9	7.2	7.5	0.15
Nickel, TCLP	0.016 J	0.014 J	0.019 J	0.017 J	0.1
Zinc, TCLP	0.098 J	0.025 J	0.028 J	0.072 J	5
SPLP Metals (mg/l)					
Arsenic, SPLP	0.061	0.061	0.054	0.064	0.05
Barium, SPLP	0.58	0.54	0.58	0.65	2
Beryllium, SPLP	0.0077 J	0.0074 J	0.0076	0.0092	0.004
Cadmium, SPLP	0.0022 J	0.002 J	ND	ND	0.005
Chromium, SPLP	0.17 J	0.16 J	0.19	0.21	0.1
Cobalt, SPLP	0.065	0.067	0.065	0.078	1
Copper, SPLP	0.28	0.32	0.25	0.25	0.65
Iron, SPLP	170 J+	160 J+	170 J+	190 J+	5
Lead, SPLP	0.12	0.13	0.081	0.096	0.0075
Manganese, SPLP	1.6	1.7	2.1	2.3	0.15
Nickel, SPLP	0.23	0.23	0.23	0.26	0.1
Zinc, SPLP	0.6	0.62	0.56	0.61	5

Summary Table of ISGS Site No. 2668A-10
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 346: US Route 41 (Skokie Highway) from IL Route 21 to West Park Avenue
Gurnee, Park City, Waukegan, and North Chicago, Lake County, Illinois

Notes:

--- - not applicable or value not available.

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


ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

J+ - Estimated concentration, biased high.

J- - Estimated concentration, biased low.

R - Rejected; results rejected during validation.

 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: 500-90788-1
Client Project/Site: IDOT - Lake County - WO 001

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

Attn: Mr. S. Babusukumar



Authorized for release by:
1/23/2015 1:15:32 PM

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

LINKS

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results through
TotalAccess

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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.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
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- 13
- 14
- 15

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90788-1

Client Sample ID: UC-4(0-3)-011415

Lab Sample ID: 500-90788-7

Date Collected: 01/14/15 10:25

Matrix: Solid

Date Received: 01/15/15 07:30

Percent Solids: 86.5

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	6.8		5.8	2.5	ug/Kg	☼		01/19/15 14:02	1
Benzene	<5.8		5.8	0.79	ug/Kg	☼		01/19/15 14:02	1
Bromodichloromethane	<5.8		5.8	0.99	ug/Kg	☼		01/19/15 14:02	1
Bromoform	<5.8		5.8	1.3	ug/Kg	☼		01/19/15 14:02	1
Bromomethane	<5.8		5.8	1.7	ug/Kg	☼		01/19/15 14:02	1
Carbon disulfide	<5.8		5.8	0.86	ug/Kg	☼		01/19/15 14:02	1
Carbon tetrachloride	<5.8		5.8	1.1	ug/Kg	☼		01/19/15 14:02	1
Chlorobenzene	<5.8		5.8	0.59	ug/Kg	☼		01/19/15 14:02	1
Chloroethane	<5.8		5.8	1.6	ug/Kg	☼		01/19/15 14:02	1
Chloroform	<5.8		5.8	0.66	ug/Kg	☼		01/19/15 14:02	1
Chloromethane	<5.8		5.8	1.2	ug/Kg	☼		01/19/15 14:02	1
cis-1,2-Dichloroethene	<5.8		5.8	0.82	ug/Kg	☼		01/19/15 14:02	1
cis-1,3-Dichloropropene	<5.8		5.8	0.76	ug/Kg	☼		01/19/15 14:02	1
Dibromochloromethane	<5.8		5.8	1.0	ug/Kg	☼		01/19/15 14:02	1
1,1-Dichloroethane	<5.8		5.8	0.91	ug/Kg	☼		01/19/15 14:02	1
1,2-Dichloroethane	<5.8		5.8	0.86	ug/Kg	☼		01/19/15 14:02	1
1,1-Dichloroethene	<5.8		5.8	0.93	ug/Kg	☼		01/19/15 14:02	1
1,2-Dichloropropane	<5.8		5.8	0.88	ug/Kg	☼		01/19/15 14:02	1
1,3-Dichloropropene, Total	<5.8		5.8	0.76	ug/Kg	☼		01/19/15 14:02	1
Ethylbenzene	<5.8		5.8	1.2	ug/Kg	☼		01/19/15 14:02	1
2-Hexanone	<5.8		5.8	1.7	ug/Kg	☼		01/19/15 14:02	1
Methylene Chloride	<5.8		5.8	1.6	ug/Kg	☼		01/19/15 14:02	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		01/19/15 14:02	1
methyl isobutyl ketone	<5.8		5.8	1.5	ug/Kg	☼		01/19/15 14:02	1
Methyl tert-butyl ether	<5.8		5.8	0.95	ug/Kg	☼		01/19/15 14:02	1
Styrene	<5.8		5.8	0.76	ug/Kg	☼		01/19/15 14:02	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	1.2	ug/Kg	☼		01/19/15 14:02	1
Tetrachloroethene	<5.8		5.8	0.88	ug/Kg	☼		01/19/15 14:02	1
Toluene	<5.8		5.8	0.81	ug/Kg	☼		01/19/15 14:02	1
trans-1,2-Dichloroethene	<5.8		5.8	0.79	ug/Kg	☼		01/19/15 14:02	1
trans-1,3-Dichloropropene	<5.8		5.8	1.0	ug/Kg	☼		01/19/15 14:02	1
1,1,1-Trichloroethane	<5.8		5.8	0.86	ug/Kg	☼		01/19/15 14:02	1
1,1,2-Trichloroethane	<5.8		5.8	0.79	ug/Kg	☼		01/19/15 14:02	1
Trichloroethene	<5.8		5.8	0.95	ug/Kg	☼		01/19/15 14:02	1
Vinyl chloride	<5.8		5.8	1.2	ug/Kg	☼		01/19/15 14:02	1
Xylenes, Total	<12		12	0.52	ug/Kg	☼		01/19/15 14:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 122		01/19/15 14:02	1
Dibromofluoromethane	103		75 - 120		01/19/15 14:02	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134		01/19/15 14:02	1
Toluene-d8 (Surr)	99		75 - 122		01/19/15 14:02	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	☼	01/15/15 16:05	01/20/15 21:03	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	01/15/15 16:05	01/20/15 21:03	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	01/15/15 16:05	01/20/15 21:03	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	01/15/15 16:05	01/20/15 21:03	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	01/15/15 16:05	01/20/15 21:03	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90788-1

Client Sample ID: UC-4(0-3)-011415

Lab Sample ID: 500-90788-7

Date Collected: 01/14/15 10:25

Matrix: Solid

Date Received: 01/15/15 07:30

Percent Solids: 86.5

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	☼	01/15/15 16:05	01/20/15 21:03	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	01/15/15 16:05	01/20/15 21:03	1
2,4-Dichlorophenol	<370		370	89	ug/Kg	☼	01/15/15 16:05	01/20/15 21:03	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	01/15/15 16:05	01/20/15 21:03	1
2,4-Dinitrophenol	<760		760	660	ug/Kg	☼	01/15/15 16:05	01/20/15 21:03	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	01/15/15 16:05	01/20/15 21:03	1
2,6-Dinitrotoluene	<190		190	74	ug/Kg	☼	01/15/15 16:05	01/20/15 21:03	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	01/15/15 16:05	01/20/15 21:03	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	01/15/15 16:05	01/20/15 21:03	1
2-Methylnaphthalene	<37		37	6.9	ug/Kg	☼	01/15/15 16:05	01/20/15 21:03	1
2-Methylphenol	<190		190	60	ug/Kg	☼	01/15/15 16:05	01/20/15 21:03	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	01/15/15 16:05	01/20/15 21:03	1
2-Nitrophenol	<370		370	89	ug/Kg	☼	01/15/15 16:05	01/20/15 21:03	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	01/15/15 16:05	01/20/15 21:03	1
3,3'-Dichlorobenzidine	<190		190	53	ug/Kg	☼	01/15/15 16:05	01/20/15 21:03	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	01/15/15 16:05	01/20/15 21:03	1
4,6-Dinitro-2-methylphenol	<370		370	300	ug/Kg	☼	01/15/15 16:05	01/20/15 21:03	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	01/15/15 16:05	01/20/15 21:03	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	01/15/15 16:05	01/20/15 21:03	1
4-Chloroaniline	<760		760	180	ug/Kg	☼	01/15/15 16:05	01/20/15 21:03	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	01/15/15 16:05	01/20/15 21:03	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	01/15/15 16:05	01/20/15 21:03	1
4-Nitrophenol	<760		760	360	ug/Kg	☼	01/15/15 16:05	01/20/15 21:03	1
Acenaphthene	<37		37	6.8	ug/Kg	☼	01/15/15 16:05	01/20/15 21:03	1
Acenaphthylene	<37		37	5.0	ug/Kg	☼	01/15/15 16:05	01/20/15 21:03	1
Anthracene	<37		37	6.3	ug/Kg	☼	01/15/15 16:05	01/20/15 21:03	1
Benzo[a]anthracene	<37		37	5.1	ug/Kg	☼	01/15/15 16:05	01/20/15 21:03	1
Benzo[a]pyrene	<37		37	7.3	ug/Kg	☼	01/15/15 16:05	01/20/15 21:03	1
Benzo[b]fluoranthene	<37		37	8.1	ug/Kg	☼	01/15/15 16:05	01/20/15 21:03	1
Benzo[g,h,i]perylene	<37		37	12	ug/Kg	☼	01/15/15 16:05	01/20/15 21:03	1
Benzo[k]fluoranthene	<37		37	11	ug/Kg	☼	01/15/15 16:05	01/20/15 21:03	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	01/15/15 16:05	01/20/15 21:03	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	01/15/15 16:05	01/20/15 21:03	1
Bis(2-ethylhexyl) phthalate	<190		190	69	ug/Kg	☼	01/15/15 16:05	01/20/15 21:03	1
Butyl benzyl phthalate	<190		190	72	ug/Kg	☼	01/15/15 16:05	01/20/15 21:03	1
Carbazole	<190		190	97	ug/Kg	☼	01/15/15 16:05	01/20/15 21:03	1
Chrysene	<37		37	10	ug/Kg	☼	01/15/15 16:05	01/20/15 21:03	1
Dibenz(a,h)anthracene	<37		37	7.3	ug/Kg	☼	01/15/15 16:05	01/20/15 21:03	1
Dibenzofuran	<190		190	44	ug/Kg	☼	01/15/15 16:05	01/20/15 21:03	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	01/15/15 16:05	01/20/15 21:03	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	01/15/15 16:05	01/20/15 21:03	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	01/15/15 16:05	01/20/15 21:03	1
Di-n-octyl phthalate	140	J	190	61	ug/Kg	☼	01/15/15 16:05	01/20/15 21:03	1
Fluoranthene	<37		37	7.0	ug/Kg	☼	01/15/15 16:05	01/20/15 21:03	1
Fluorene	<37		37	5.3	ug/Kg	☼	01/15/15 16:05	01/20/15 21:03	1
Hexachlorobenzene	<76		76	8.7	ug/Kg	☼	01/15/15 16:05	01/20/15 21:03	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	01/15/15 16:05	01/20/15 21:03	1
Hexachlorocyclopentadiene	<760		760	220	ug/Kg	☼	01/15/15 16:05	01/20/15 21:03	1
Hexachloroethane	<190		190	57	ug/Kg	☼	01/15/15 16:05	01/20/15 21:03	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90788-1

Client Sample ID: UC-4(0-3)-011415

Lab Sample ID: 500-90788-7

Date Collected: 01/14/15 10:25

Matrix: Solid

Date Received: 01/15/15 07:30

Percent Solids: 86.5

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	<37		37	9.8	ug/Kg	☼	01/15/15 16:05	01/20/15 21:03	1
Isophorone	<190		190	42	ug/Kg	☼	01/15/15 16:05	01/20/15 21:03	1
Naphthalene	<37		37	5.8	ug/Kg	☼	01/15/15 16:05	01/20/15 21:03	1
Nitrobenzene	<37		37	9.4	ug/Kg	☼	01/15/15 16:05	01/20/15 21:03	1
N-Nitrosodi-n-propylamine	<190		190	46	ug/Kg	☼	01/15/15 16:05	01/20/15 21:03	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	01/15/15 16:05	01/20/15 21:03	1
Pentachlorophenol	<760		760	600	ug/Kg	☼	01/15/15 16:05	01/20/15 21:03	1
Phenanthrene	<37		37	5.2	ug/Kg	☼	01/15/15 16:05	01/20/15 21:03	1
Phenol	<190		190	84	ug/Kg	☼	01/15/15 16:05	01/20/15 21:03	1
Pyrene	<37		37	7.5	ug/Kg	☼	01/15/15 16:05	01/20/15 21:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	53		35 - 137				01/15/15 16:05	01/20/15 21:03	1
2-Fluorobiphenyl	36		25 - 119				01/15/15 16:05	01/20/15 21:03	1
2-Fluorophenol	43		25 - 110				01/15/15 16:05	01/20/15 21:03	1
Nitrobenzene-d5	40		25 - 115				01/15/15 16:05	01/20/15 21:03	1
Phenol-d5	38		31 - 110				01/15/15 16:05	01/20/15 21:03	1
Terphenyl-d14	63		36 - 134				01/15/15 16:05	01/20/15 21:03	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		01/19/15 08:00	01/19/15 23:36	1
Barium	0.27	J	0.50	0.050	mg/L		01/19/15 08:00	01/19/15 23:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/19/15 08:00	01/19/15 23:36	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/19/15 08:00	01/19/15 23:36	1
Chromium	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/19/15 23:36	1
Cobalt	0.012	J	0.025	0.010	mg/L		01/19/15 08:00	01/19/15 23:36	1
Copper	0.027		0.025	0.010	mg/L		01/19/15 08:00	01/19/15 23:36	1
Iron	<0.20		0.20	0.20	mg/L		01/19/15 08:00	01/19/15 23:36	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/19/15 08:00	01/19/15 23:36	1
Manganese	7.2		0.025	0.010	mg/L		01/19/15 08:00	01/19/15 23:36	1
Nickel	0.019	J	0.025	0.010	mg/L		01/19/15 08:00	01/19/15 23:36	1
Selenium	<0.050		0.050	0.020	mg/L		01/19/15 08:00	01/19/15 23:36	1
Silver	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/19/15 23:36	1
Zinc	0.028	J	0.10	0.020	mg/L		01/19/15 08:00	01/19/15 23:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.054		0.050	0.010	mg/L		01/20/15 08:00	01/20/15 22:57	1
Barium	0.58		0.50	0.050	mg/L		01/20/15 08:00	01/20/15 22:57	1
Beryllium	0.0076		0.0040	0.0040	mg/L		01/20/15 08:00	01/20/15 22:57	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/20/15 08:00	01/20/15 22:57	1
Chromium	0.19		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 22:57	1
Cobalt	0.065		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 22:57	1
Copper	0.25		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 22:57	1
Iron	170		0.20	0.20	mg/L		01/20/15 08:00	01/20/15 22:57	1
Lead	0.081		0.038	0.038	mg/L		01/20/15 08:00	01/22/15 11:14	5
Manganese	2.1		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 22:57	1
Nickel	0.23		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 22:57	1
Selenium	<0.050		0.050	0.020	mg/L		01/20/15 08:00	01/20/15 22:57	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90788-1

Client Sample ID: UC-4(0-3)-011415

Lab Sample ID: 500-90788-7

Date Collected: 01/14/15 10:25

Matrix: Solid

Date Received: 01/15/15 07:30

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		01/20/15 08:00	01/20/15 22:57	1
Zinc	0.56		0.10	0.020	mg/L		01/20/15 08:00	01/20/15 22:57	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	☼	01/18/15 16:30	01/20/15 02:28	1
Arsenic	4.7		0.54	0.25	mg/Kg	☼	01/18/15 16:30	01/20/15 02:28	1
Barium	24		0.54	0.099	mg/Kg	☼	01/18/15 16:30	01/20/15 02:28	1
Beryllium	0.64		0.22	0.047	mg/Kg	☼	01/18/15 16:30	01/20/15 02:28	1
Cadmium	0.26		0.11	0.031	mg/Kg	☼	01/18/15 16:30	01/20/15 02:28	1
Calcium	19000		11	3.5	mg/Kg	☼	01/18/15 16:30	01/20/15 02:28	1
Chromium	18		0.54	0.093	mg/Kg	☼	01/18/15 16:30	01/20/15 02:28	1
Cobalt	6.7		0.27	0.061	mg/Kg	☼	01/18/15 16:30	01/20/15 02:28	1
Copper	17		0.54	0.12	mg/Kg	☼	01/18/15 16:30	01/20/15 02:28	1
Iron	18000		11	4.2	mg/Kg	☼	01/18/15 16:30	01/20/15 02:28	1
Lead	10		0.27	0.13	mg/Kg	☼	01/18/15 16:30	01/20/15 02:28	1
Magnesium	12000		5.4	2.2	mg/Kg	☼	01/18/15 16:30	01/20/15 02:28	1
Manganese	350		0.54	0.11	mg/Kg	☼	01/18/15 16:30	01/20/15 02:28	1
Nickel	18		0.54	0.15	mg/Kg	☼	01/18/15 16:30	01/20/15 02:28	1
Potassium	2000		27	4.4	mg/Kg	☼	01/18/15 16:30	01/20/15 02:28	1
Selenium	0.72		0.54	0.27	mg/Kg	☼	01/18/15 16:30	01/20/15 02:28	1
Silver	<0.27		0.27	0.063	mg/Kg	☼	01/18/15 16:30	01/20/15 02:28	1
Sodium	1900		54	7.1	mg/Kg	☼	01/18/15 16:30	01/20/15 02:28	1
Thallium	0.67		0.54	0.27	mg/Kg	☼	01/18/15 16:30	01/20/15 02:28	1
Vanadium	26		0.27	0.079	mg/Kg	☼	01/18/15 16:30	01/20/15 02:28	1
Zinc	48	B	1.1	0.34	mg/Kg	☼	01/18/15 16:30	01/20/15 02:28	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		01/19/15 11:30	01/20/15 09:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		01/19/15 11:30	01/20/15 10:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	27		18	7.1	ug/Kg	☼	01/19/15 14:30	01/20/15 11:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.44		0.200	0.200	SU			01/19/15 11:30	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90788-1

Client Sample ID: UC-4(0-3)-011415D

Lab Sample ID: 500-90788-8

Date Collected: 01/14/15 10:25

Matrix: Solid

Date Received: 01/15/15 07:30

Percent Solids: 85.1

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	11		5.9	2.5	ug/Kg	☼		01/19/15 14:27	1
Benzene	<5.9		5.9	0.80	ug/Kg	☼		01/19/15 14:27	1
Bromodichloromethane	<5.9		5.9	1.0	ug/Kg	☼		01/19/15 14:27	1
Bromoform	<5.9		5.9	1.4	ug/Kg	☼		01/19/15 14:27	1
Bromomethane	<5.9		5.9	1.8	ug/Kg	☼		01/19/15 14:27	1
Carbon disulfide	<5.9		5.9	0.88	ug/Kg	☼		01/19/15 14:27	1
Carbon tetrachloride	<5.9		5.9	1.1	ug/Kg	☼		01/19/15 14:27	1
Chlorobenzene	<5.9		5.9	0.60	ug/Kg	☼		01/19/15 14:27	1
Chloroethane	<5.9		5.9	1.6	ug/Kg	☼		01/19/15 14:27	1
Chloroform	<5.9		5.9	0.68	ug/Kg	☼		01/19/15 14:27	1
Chloromethane	<5.9		5.9	1.2	ug/Kg	☼		01/19/15 14:27	1
cis-1,2-Dichloroethene	<5.9		5.9	0.83	ug/Kg	☼		01/19/15 14:27	1
cis-1,3-Dichloropropene	<5.9		5.9	0.77	ug/Kg	☼		01/19/15 14:27	1
Dibromochloromethane	<5.9		5.9	1.0	ug/Kg	☼		01/19/15 14:27	1
1,1-Dichloroethane	<5.9		5.9	0.93	ug/Kg	☼		01/19/15 14:27	1
1,2-Dichloroethane	<5.9		5.9	0.87	ug/Kg	☼		01/19/15 14:27	1
1,1-Dichloroethene	<5.9		5.9	0.95	ug/Kg	☼		01/19/15 14:27	1
1,2-Dichloropropane	<5.9		5.9	0.89	ug/Kg	☼		01/19/15 14:27	1
1,3-Dichloropropene, Total	<5.9		5.9	0.77	ug/Kg	☼		01/19/15 14:27	1
Ethylbenzene	<5.9		5.9	1.2	ug/Kg	☼		01/19/15 14:27	1
2-Hexanone	<5.9		5.9	1.7	ug/Kg	☼		01/19/15 14:27	1
Methylene Chloride	<5.9		5.9	1.6	ug/Kg	☼		01/19/15 14:27	1
Methyl Ethyl Ketone	<5.9		5.9	2.1	ug/Kg	☼		01/19/15 14:27	1
methyl isobutyl ketone	<5.9		5.9	1.5	ug/Kg	☼		01/19/15 14:27	1
Methyl tert-butyl ether	<5.9		5.9	0.97	ug/Kg	☼		01/19/15 14:27	1
Styrene	<5.9		5.9	0.77	ug/Kg	☼		01/19/15 14:27	1
1,1,2,2-Tetrachloroethane	<5.9		5.9	1.2	ug/Kg	☼		01/19/15 14:27	1
Tetrachloroethene	<5.9		5.9	0.90	ug/Kg	☼		01/19/15 14:27	1
Toluene	<5.9		5.9	0.82	ug/Kg	☼		01/19/15 14:27	1
trans-1,2-Dichloroethene	<5.9		5.9	0.81	ug/Kg	☼		01/19/15 14:27	1
trans-1,3-Dichloropropene	<5.9		5.9	1.1	ug/Kg	☼		01/19/15 14:27	1
1,1,1-Trichloroethane	<5.9		5.9	0.88	ug/Kg	☼		01/19/15 14:27	1
1,1,2-Trichloroethane	<5.9		5.9	0.80	ug/Kg	☼		01/19/15 14:27	1
Trichloroethene	<5.9		5.9	0.97	ug/Kg	☼		01/19/15 14:27	1
Vinyl chloride	<5.9		5.9	1.2	ug/Kg	☼		01/19/15 14:27	1
Xylenes, Total	<12		12	0.53	ug/Kg	☼		01/19/15 14:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122		01/19/15 14:27	1
Dibromofluoromethane	103		75 - 120		01/19/15 14:27	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134		01/19/15 14:27	1
Toluene-d8 (Surr)	97		75 - 122		01/19/15 14:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	41	ug/Kg	☼	01/15/15 16:05	01/20/15 21:23	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	01/15/15 16:05	01/20/15 21:23	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	01/15/15 16:05	01/20/15 21:23	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	01/15/15 16:05	01/20/15 21:23	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	01/15/15 16:05	01/20/15 21:23	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90788-1

Client Sample ID: UC-4(0-3)-011415D

Lab Sample ID: 500-90788-8

Date Collected: 01/14/15 10:25

Matrix: Solid

Date Received: 01/15/15 07:30

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	86	ug/Kg	*	01/15/15 16:05	01/20/15 21:23	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	*	01/15/15 16:05	01/20/15 21:23	1
2,4-Dichlorophenol	<380		380	90	ug/Kg	*	01/15/15 16:05	01/20/15 21:23	1
2,4-Dimethylphenol	<380		380	140	ug/Kg	*	01/15/15 16:05	01/20/15 21:23	1
2,4-Dinitrophenol	<760		760	670	ug/Kg	*	01/15/15 16:05	01/20/15 21:23	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	*	01/15/15 16:05	01/20/15 21:23	1
2,6-Dinitrotoluene	<190		190	74	ug/Kg	*	01/15/15 16:05	01/20/15 21:23	1
2-Chloronaphthalene	<190		190	42	ug/Kg	*	01/15/15 16:05	01/20/15 21:23	1
2-Chlorophenol	<190		190	65	ug/Kg	*	01/15/15 16:05	01/20/15 21:23	1
2-Methylnaphthalene	<38		38	7.0	ug/Kg	*	01/15/15 16:05	01/20/15 21:23	1
2-Methylphenol	<190		190	61	ug/Kg	*	01/15/15 16:05	01/20/15 21:23	1
2-Nitroaniline	<190		190	51	ug/Kg	*	01/15/15 16:05	01/20/15 21:23	1
2-Nitrophenol	<380		380	89	ug/Kg	*	01/15/15 16:05	01/20/15 21:23	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	*	01/15/15 16:05	01/20/15 21:23	1
3,3'-Dichlorobenzidine	<190		190	53	ug/Kg	*	01/15/15 16:05	01/20/15 21:23	1
3-Nitroaniline	<380		380	120	ug/Kg	*	01/15/15 16:05	01/20/15 21:23	1
4,6-Dinitro-2-methylphenol	<380		380	300	ug/Kg	*	01/15/15 16:05	01/20/15 21:23	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	*	01/15/15 16:05	01/20/15 21:23	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	*	01/15/15 16:05	01/20/15 21:23	1
4-Chloroaniline	<760		760	180	ug/Kg	*	01/15/15 16:05	01/20/15 21:23	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	*	01/15/15 16:05	01/20/15 21:23	1
4-Nitroaniline	<380		380	160	ug/Kg	*	01/15/15 16:05	01/20/15 21:23	1
4-Nitrophenol	<760		760	360	ug/Kg	*	01/15/15 16:05	01/20/15 21:23	1
Acenaphthene	<38		38	6.8	ug/Kg	*	01/15/15 16:05	01/20/15 21:23	1
Acenaphthylene	<38		38	5.0	ug/Kg	*	01/15/15 16:05	01/20/15 21:23	1
Anthracene	<38		38	6.3	ug/Kg	*	01/15/15 16:05	01/20/15 21:23	1
Benzo[a]anthracene	<38		38	5.1	ug/Kg	*	01/15/15 16:05	01/20/15 21:23	1
Benzo[a]pyrene	<38		38	7.3	ug/Kg	*	01/15/15 16:05	01/20/15 21:23	1
Benzo[b]fluoranthene	<38		38	8.2	ug/Kg	*	01/15/15 16:05	01/20/15 21:23	1
Benzo[g,h,i]perylene	<38		38	12	ug/Kg	*	01/15/15 16:05	01/20/15 21:23	1
Benzo[k]fluoranthene	<38		38	11	ug/Kg	*	01/15/15 16:05	01/20/15 21:23	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	*	01/15/15 16:05	01/20/15 21:23	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	*	01/15/15 16:05	01/20/15 21:23	1
Bis(2-ethylhexyl) phthalate	<190		190	69	ug/Kg	*	01/15/15 16:05	01/20/15 21:23	1
Butyl benzyl phthalate	<190		190	72	ug/Kg	*	01/15/15 16:05	01/20/15 21:23	1
Carbazole	<190		190	98	ug/Kg	*	01/15/15 16:05	01/20/15 21:23	1
Chrysene	<38		38	10	ug/Kg	*	01/15/15 16:05	01/20/15 21:23	1
Dibenz(a,h)anthracene	<38		38	7.3	ug/Kg	*	01/15/15 16:05	01/20/15 21:23	1
Dibenzofuran	<190		190	44	ug/Kg	*	01/15/15 16:05	01/20/15 21:23	1
Diethyl phthalate	<190		190	64	ug/Kg	*	01/15/15 16:05	01/20/15 21:23	1
Dimethyl phthalate	<190		190	49	ug/Kg	*	01/15/15 16:05	01/20/15 21:23	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	*	01/15/15 16:05	01/20/15 21:23	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	*	01/15/15 16:05	01/20/15 21:23	1
Fluoranthene	<38		38	7.0	ug/Kg	*	01/15/15 16:05	01/20/15 21:23	1
Fluorene	<38		38	5.3	ug/Kg	*	01/15/15 16:05	01/20/15 21:23	1
Hexachlorobenzene	<76		76	8.8	ug/Kg	*	01/15/15 16:05	01/20/15 21:23	1
Hexachlorobutadiene	<190		190	59	ug/Kg	*	01/15/15 16:05	01/20/15 21:23	1
Hexachlorocyclopentadiene	<760		760	220	ug/Kg	*	01/15/15 16:05	01/20/15 21:23	1
Hexachloroethane	<190		190	58	ug/Kg	*	01/15/15 16:05	01/20/15 21:23	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90788-1

Client Sample ID: UC-4(0-3)-011415D

Lab Sample ID: 500-90788-8

Date Collected: 01/14/15 10:25

Matrix: Solid

Date Received: 01/15/15 07:30

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	<38		38	9.8	ug/Kg	☼	01/15/15 16:05	01/20/15 21:23	1
Isophorone	<190		190	43	ug/Kg	☼	01/15/15 16:05	01/20/15 21:23	1
Naphthalene	<38		38	5.8	ug/Kg	☼	01/15/15 16:05	01/20/15 21:23	1
Nitrobenzene	<38		38	9.4	ug/Kg	☼	01/15/15 16:05	01/20/15 21:23	1
N-Nitrosodi-n-propylamine	<190		190	46	ug/Kg	☼	01/15/15 16:05	01/20/15 21:23	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	01/15/15 16:05	01/20/15 21:23	1
Pentachlorophenol	<760		760	610	ug/Kg	☼	01/15/15 16:05	01/20/15 21:23	1
Phenanthrene	<38		38	5.3	ug/Kg	☼	01/15/15 16:05	01/20/15 21:23	1
Phenol	<190		190	84	ug/Kg	☼	01/15/15 16:05	01/20/15 21:23	1
Pyrene	<38		38	7.5	ug/Kg	☼	01/15/15 16:05	01/20/15 21:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	59		35 - 137	01/15/15 16:05	01/20/15 21:23	1
2-Fluorobiphenyl	40		25 - 119	01/15/15 16:05	01/20/15 21:23	1
2-Fluorophenol	49		25 - 110	01/15/15 16:05	01/20/15 21:23	1
Nitrobenzene-d5	44		25 - 115	01/15/15 16:05	01/20/15 21:23	1
Phenol-d5	41		31 - 110	01/15/15 16:05	01/20/15 21:23	1
Terphenyl-d14	67		36 - 134	01/15/15 16:05	01/20/15 21:23	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/19/15 08:00	01/19/15 23:42	1
Barium	0.32	J	0.50	0.050	mg/L		01/19/15 08:00	01/19/15 23:42	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/19/15 08:00	01/19/15 23:42	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/19/15 08:00	01/19/15 23:42	1
Chromium	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/19/15 23:42	1
Cobalt	0.011	J	0.025	0.010	mg/L		01/19/15 08:00	01/19/15 23:42	1
Copper	0.24		0.025	0.010	mg/L		01/19/15 08:00	01/19/15 23:42	1
Iron	0.48		0.20	0.20	mg/L		01/19/15 08:00	01/19/15 23:42	1
Lead	0.014		0.0075	0.0075	mg/L		01/19/15 08:00	01/19/15 23:42	1
Manganese	7.5		0.025	0.010	mg/L		01/19/15 08:00	01/19/15 23:42	1
Nickel	0.017	J	0.025	0.010	mg/L		01/19/15 08:00	01/19/15 23:42	1
Selenium	<0.050		0.050	0.020	mg/L		01/19/15 08:00	01/19/15 23:42	1
Silver	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/19/15 23:42	1
Zinc	0.072	J	0.10	0.020	mg/L		01/19/15 08:00	01/19/15 23:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.064		0.050	0.010	mg/L		01/20/15 08:00	01/20/15 23:02	1
Barium	0.65		0.50	0.050	mg/L		01/20/15 08:00	01/20/15 23:02	1
Beryllium	0.0092		0.0040	0.0040	mg/L		01/20/15 08:00	01/20/15 23:02	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/20/15 08:00	01/20/15 23:02	1
Chromium	0.21		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 23:02	1
Cobalt	0.078		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 23:02	1
Copper	0.25		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 23:02	1
Iron	190		0.20	0.20	mg/L		01/20/15 08:00	01/20/15 23:02	1
Lead	0.096		0.038	0.038	mg/L		01/20/15 08:00	01/22/15 11:18	5
Manganese	2.3		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 23:02	1
Nickel	0.26		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 23:02	1
Selenium	<0.050		0.050	0.020	mg/L		01/20/15 08:00	01/20/15 23:02	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90788-1

Client Sample ID: UC-4(0-3)-011415D

Lab Sample ID: 500-90788-8

Date Collected: 01/14/15 10:25

Matrix: Solid

Date Received: 01/15/15 07:30

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		01/20/15 08:00	01/20/15 23:02	1
Zinc	0.61		0.10	0.020	mg/L		01/20/15 08:00	01/20/15 23:02	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.66	J	1.1	0.24	mg/Kg	☼	01/18/15 16:30	01/20/15 02:34	1
Arsenic	6.2		0.57	0.26	mg/Kg	☼	01/18/15 16:30	01/20/15 02:34	1
Barium	54		0.57	0.10	mg/Kg	☼	01/18/15 16:30	01/20/15 02:34	1
Beryllium	0.71		0.23	0.049	mg/Kg	☼	01/18/15 16:30	01/20/15 02:34	1
Cadmium	0.32		0.11	0.033	mg/Kg	☼	01/18/15 16:30	01/20/15 02:34	1
Calcium	49000		11	3.6	mg/Kg	☼	01/18/15 16:30	01/20/15 02:34	1
Chromium	20		0.57	0.097	mg/Kg	☼	01/18/15 16:30	01/20/15 02:34	1
Cobalt	8.9		0.28	0.064	mg/Kg	☼	01/18/15 16:30	01/20/15 02:34	1
Copper	22		0.57	0.12	mg/Kg	☼	01/18/15 16:30	01/20/15 02:34	1
Iron	20000		11	4.4	mg/Kg	☼	01/18/15 16:30	01/20/15 02:34	1
Lead	10		0.28	0.14	mg/Kg	☼	01/18/15 16:30	01/20/15 02:34	1
Magnesium	29000		5.7	2.3	mg/Kg	☼	01/18/15 16:30	01/20/15 02:34	1
Manganese	620		0.57	0.11	mg/Kg	☼	01/18/15 16:30	01/20/15 02:34	1
Nickel	25		0.57	0.15	mg/Kg	☼	01/18/15 16:30	01/20/15 02:34	1
Potassium	3600		28	4.6	mg/Kg	☼	01/18/15 16:30	01/20/15 02:34	1
Selenium	0.36	J	0.57	0.28	mg/Kg	☼	01/18/15 16:30	01/20/15 02:34	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	01/18/15 16:30	01/20/15 02:34	1
Sodium	1800		57	7.5	mg/Kg	☼	01/18/15 16:30	01/20/15 02:34	1
Thallium	0.80		0.57	0.28	mg/Kg	☼	01/18/15 16:30	01/20/15 02:34	1
Vanadium	23		0.28	0.083	mg/Kg	☼	01/18/15 16:30	01/20/15 02:34	1
Zinc	46	B	1.1	0.36	mg/Kg	☼	01/18/15 16:30	01/20/15 02:34	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		01/19/15 11:30	01/20/15 09:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		01/19/15 11:30	01/20/15 10:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	22		18	7.0	ug/Kg	☼	01/19/15 14:30	01/20/15 11:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.37		0.200	0.200	SU			01/19/15 11:34	1

Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90788-1

Qualifiers

GC/MS VOA

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

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.
X	Surrogate is outside control limits
F1	MS and/or MSD Recovery exceeds the control limits
F2	MS/MSD RPD exceeds control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
F1	MS and/or MSD Recovery exceeds the 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.
F2	MS/MSD RPD exceeds control 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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90788-1

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-15

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

Analysis Method	Prep Method	Matrix	Analyte
7470A	7470A	Solid	Mercury
8260B		Solid	1,3-Dichloropropene, Total
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



500-90788 COC

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

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

Chain of Custody Record

Lab Job #: 500-90788
Chain of Custody Number:
Page 1 of 3
Temperature °C of Cooler: 3.2/2.8

Client		Client Project #		Preservative		7		7		7		7		7		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		VOCs		SVOCs		Total Metals		TCP/SPLP Metals		PH		
Project Location/State		Lab PM														
Sampler																
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix										Comments
1		SA-1(0-3)-011415	1/14/15	0830	2	S	X	X	X	X	X					
2		V9-1(0-3)-011415		0850												
3		V9-2(0-3)-011415		0905												
4		V9-3(0-3)-011415		0920												
5		TM-1(0-3)-011415		0940												
6		UC-3(0-3)-011415		1005												
7		UC-4(0-3)-011415		1025												
8		UC-4(0-3)-011415D		1025												
9		RE-1(0-3)-011415		1040												
10		RE-2(0-3)-011415		1055												

Turnaround Time Required (Business Days)

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

Requested Due Date

Sample Disposal

Return to Client

Disposal by Lab

Archive for _____ Months

(A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>M. Strow</u>	Company <u>Weston</u>	Date <u>1/14/15</u>	Time <u>1540</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>1/14/15</u>	Time <u>1530</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>1/14/15</u>	Time <u>1720</u>	Received By <u>[Signature]</u>	Company <u>TA-CAT</u>	Date <u>1/15/15</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: S. Babusukumar
Company: Weston
Address: 300 Plaza Circle Ste 202
Address: Mundelein, IL 60060
Phone: (224) 864-7200
Fax:
E-Mail:

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

Chain of Custody Record

Lab Job #: 500-90788

Chain of Custody Number: _____

Page 2 of 3

Temperature °C of Cooler: _____

Client		Client Project #		Preservative		7		7		7		7		7		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		7		7		7		7		7		Comments		
Project Location/State		Lab Project #		VOCs		SVOCs		Total Metals		TCUP/SPLP Metals		PH				
Sampler		Lab PM		Date		Time		# of Containers		Matrix						
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix										
11		RE-3 (0-3) - 011415	1/14/15	1105	2 S		X	X	X	X	X					
12		RE-4 (0-3) - 011415		1125												
13		RE-5 (0-3) - 011415		1135												
14		RE-6 (0-3) - 011415		1145												
15		RE-7 (0-3) - 011415		1200												
16		LC-8 (0-3) - 011415		1300												
17		LC-7 (0-3) - 011415		1310												
18		LC-6 (0-3) - 011415		1320												
19		LC-5 (0-3) - 011415		1340												
20		LC-5 (0-3) - 011415D		1340												

Turnaround Time Required (Business Days)

___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days ___ Standard ___ 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>Weston</u>	Company <u>Weston</u>	Date <u>1/14/15</u>	Time <u>1540</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>1/14/15</u>	Time <u>1540</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>1/14/15</u>	Time <u>1720</u>	Received By <u>[Signature]</u>	Company <u>TA-CRT</u>	Date <u>1/15/15</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: 500-90789-1
Client Project/Site: IDOT - Lake County - WO 001

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

Attn: Mr. S. Babusukumar



Authorized for release by:
1/22/2015 3:50:34 PM

Richard Wright, Senior Project Manager
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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 - Lake County - WO 001

TestAmerica Job ID: 500-90789-1

Client Sample ID: UC-1(0-3)-011415

Lab Sample ID: 500-90789-6

Date Collected: 01/14/15 14:55

Matrix: Solid

Date Received: 01/15/15 07:30

Percent Solids: 87.6

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.7		5.7	2.5	ug/Kg	*		01/15/15 19:56	1
Benzene	<5.7		5.7	0.78	ug/Kg	*		01/15/15 19:56	1
Bromodichloromethane	<5.7		5.7	0.98	ug/Kg	*		01/15/15 19:56	1
Bromoform	<5.7		5.7	1.3	ug/Kg	*		01/15/15 19:56	1
Bromomethane	<5.7		5.7	1.7	ug/Kg	*		01/15/15 19:56	1
Carbon disulfide	<5.7		5.7	0.85	ug/Kg	*		01/15/15 19:56	1
Carbon tetrachloride	<5.7		5.7	1.0	ug/Kg	*		01/15/15 19:56	1
Chlorobenzene	<5.7		5.7	0.58	ug/Kg	*		01/15/15 19:56	1
Chloroethane	<5.7		5.7	1.6	ug/Kg	*		01/15/15 19:56	1
Chloroform	<5.7		5.7	0.66	ug/Kg	*		01/15/15 19:56	1
Chloromethane	<5.7		5.7	1.2	ug/Kg	*		01/15/15 19:56	1
cis-1,2-Dichloroethene	<5.7		5.7	0.81	ug/Kg	*		01/15/15 19:56	1
cis-1,3-Dichloropropene	<5.7		5.7	0.75	ug/Kg	*		01/15/15 19:56	1
Dibromochloromethane	<5.7		5.7	0.99	ug/Kg	*		01/15/15 19:56	1
1,1-Dichloroethane	<5.7		5.7	0.90	ug/Kg	*		01/15/15 19:56	1
1,2-Dichloroethane	<5.7		5.7	0.85	ug/Kg	*		01/15/15 19:56	1
1,1,1-Dichloroethane	<5.7		5.7	0.92	ug/Kg	*		01/15/15 19:56	1
1,2-Dichloropropane	<5.7		5.7	0.87	ug/Kg	*		01/15/15 19:56	1
1,3-Dichloropropene, Total	<5.7		5.7	0.75	ug/Kg	*		01/15/15 19:56	1
Ethylbenzene	<5.7		5.7	1.2	ug/Kg	*		01/15/15 19:56	1
2-Hexanone	<5.7		5.7	1.6	ug/Kg	*		01/15/15 19:56	1
Methylene Chloride	<5.7		5.7	1.5	ug/Kg	*		01/15/15 19:56	1
Methyl Ethyl Ketone	<5.7		5.7	2.1	ug/Kg	*		01/15/15 19:56	1
methyl isobutyl ketone	<5.7		5.7	1.5	ug/Kg	*		01/15/15 19:56	1
Methyl tert-butyl ether	<5.7		5.7	0.94	ug/Kg	*		01/15/15 19:56	1
Styrene	<5.7		5.7	0.75	ug/Kg	*		01/15/15 19:56	1
1,1,1,2-Tetrachloroethane	<5.7		5.7	1.2	ug/Kg	*		01/15/15 19:56	1
Tetrachloroethene	<5.7		5.7	0.87	ug/Kg	*		01/15/15 19:56	1
Toluene	<5.7		5.7	0.80	ug/Kg	*		01/15/15 19:56	1
trans-1,2-Dichloroethene	<5.7		5.7	0.79	ug/Kg	*		01/15/15 19:56	1
trans-1,3-Dichloropropene	<5.7		5.7	1.0	ug/Kg	*		01/15/15 19:56	1
1,1,1-Trichloroethane	<5.7		5.7	0.85	ug/Kg	*		01/15/15 19:56	1
1,1,2-Trichloroethane	<5.7		5.7	0.78	ug/Kg	*		01/15/15 19:56	1
Trichloroethene	<5.7		5.7	0.94	ug/Kg	*		01/15/15 19:56	1
Vinyl chloride	<5.7		5.7	1.2	ug/Kg	*		01/15/15 19:56	1
Xylenes, Total	<11		11	0.52	ug/Kg	*		01/15/15 19:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122		01/15/15 19:56	1
Dibromofluoromethane	103		75 - 120		01/15/15 19:56	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 134		01/15/15 19:56	1
Toluene-d8 (Surr)	100		75 - 122		01/15/15 19:56	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	*	01/15/15 17:32	01/20/15 22:03	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	*	01/15/15 17:32	01/20/15 22:03	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	*	01/15/15 17:32	01/20/15 22:03	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	*	01/15/15 17:32	01/20/15 22:03	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	*	01/15/15 17:32	01/20/15 22:03	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90789-1

Client Sample ID: UC-1(0-3)-011415

Lab Sample ID: 500-90789-6

Date Collected: 01/14/15 14:55

Matrix: Solid

Date Received: 01/15/15 07:30

Percent Solids: 87.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	86	ug/Kg	*	01/15/15 17:32	01/20/15 22:03	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	*	01/15/15 17:32	01/20/15 22:03	1
2,4-Dichlorophenol	<370		370	89	ug/Kg	*	01/15/15 17:32	01/20/15 22:03	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	*	01/15/15 17:32	01/20/15 22:03	1
2,4-Dinitrophenol	<760		760	660	ug/Kg	*	01/15/15 17:32	01/20/15 22:03	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	*	01/15/15 17:32	01/20/15 22:03	1
2,6-Dinitrotoluene	<190		190	74	ug/Kg	*	01/15/15 17:32	01/20/15 22:03	1
2-Chloronaphthalene	<190		190	42	ug/Kg	*	01/15/15 17:32	01/20/15 22:03	1
2-Chlorophenol	<190		190	64	ug/Kg	*	01/15/15 17:32	01/20/15 22:03	1
2-Methylnaphthalene	<37		37	6.9	ug/Kg	*	01/15/15 17:32	01/20/15 22:03	1
2-Methylphenol	<190		190	60	ug/Kg	*	01/15/15 17:32	01/20/15 22:03	1
2-Nitroaniline	<190		190	51	ug/Kg	*	01/15/15 17:32	01/20/15 22:03	1
2-Nitrophenol	<370		370	89	ug/Kg	*	01/15/15 17:32	01/20/15 22:03	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	*	01/15/15 17:32	01/20/15 22:03	1
3,3'-Dichlorobenzidine	<190		190	53	ug/Kg	*	01/15/15 17:32	01/20/15 22:03	1
3-Nitroaniline	<370		370	120	ug/Kg	*	01/15/15 17:32	01/20/15 22:03	1
4,6-Dinitro-2-methylphenol	<370		370	300	ug/Kg	*	01/15/15 17:32	01/20/15 22:03	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	*	01/15/15 17:32	01/20/15 22:03	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	*	01/15/15 17:32	01/20/15 22:03	1
4-Chloroaniline	<760		760	180	ug/Kg	*	01/15/15 17:32	01/20/15 22:03	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	*	01/15/15 17:32	01/20/15 22:03	1
4-Nitroaniline	<370		370	160	ug/Kg	*	01/15/15 17:32	01/20/15 22:03	1
4-Nitrophenol	<760		760	360	ug/Kg	*	01/15/15 17:32	01/20/15 22:03	1
Acenaphthene	<37		37	6.8	ug/Kg	*	01/15/15 17:32	01/20/15 22:03	1
Acenaphthylene	<37		37	5.0	ug/Kg	*	01/15/15 17:32	01/20/15 22:03	1
Anthracene	<37		37	6.3	ug/Kg	*	01/15/15 17:32	01/20/15 22:03	1
Benzo[a]anthracene	7.5 J		37	5.1	ug/Kg	*	01/15/15 17:32	01/20/15 22:03	1
Benzo[a]pyrene	<37		37	7.3	ug/Kg	*	01/15/15 17:32	01/20/15 22:03	1
Benzo[b]fluoranthene	9.2 J		37	8.1	ug/Kg	*	01/15/15 17:32	01/20/15 22:03	1
Benzo[g,h,i]perylene	<37		37	12	ug/Kg	*	01/15/15 17:32	01/20/15 22:03	1
Benzo[k]fluoranthene	<37		37	11	ug/Kg	*	01/15/15 17:32	01/20/15 22:03	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	*	01/15/15 17:32	01/20/15 22:03	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	*	01/15/15 17:32	01/20/15 22:03	1
Bis(2-ethylhexyl) phthalate	<190		190	69	ug/Kg	*	01/15/15 17:32	01/20/15 22:03	1
Butyl benzyl phthalate	<190		190	71	ug/Kg	*	01/15/15 17:32	01/20/15 22:03	1
Carbazole	<190		190	97	ug/Kg	*	01/15/15 17:32	01/20/15 22:03	1
Chrysene	<37		37	10	ug/Kg	*	01/15/15 17:32	01/20/15 22:03	1
Dibenz(a,h)anthracene	<37		37	7.3	ug/Kg	*	01/15/15 17:32	01/20/15 22:03	1
Dibenzofuran	<190		190	44	ug/Kg	*	01/15/15 17:32	01/20/15 22:03	1
Diethyl phthalate	<190		190	64	ug/Kg	*	01/15/15 17:32	01/20/15 22:03	1
Dimethyl phthalate	<190		190	49	ug/Kg	*	01/15/15 17:32	01/20/15 22:03	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	*	01/15/15 17:32	01/20/15 22:03	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	*	01/15/15 17:32	01/20/15 22:03	1
Fluoranthene	9.9 J		37	7.0	ug/Kg	*	01/15/15 17:32	01/20/15 22:03	1
Fluorene	<37		37	5.3	ug/Kg	*	01/15/15 17:32	01/20/15 22:03	1
Hexachlorobenzene	<76		76	8.7	ug/Kg	*	01/15/15 17:32	01/20/15 22:03	1
Hexachlorobutadiene	<190		190	59	ug/Kg	*	01/15/15 17:32	01/20/15 22:03	1
Hexachlorocyclopentadiene	<760 *		760	220	ug/Kg	*	01/15/15 17:32	01/20/15 22:03	1
Hexachloroethane	<190		190	57	ug/Kg	*	01/15/15 17:32	01/20/15 22:03	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90789-1

Client Sample ID: UC-1(0-3)-011415

Lab Sample ID: 500-90789-6

Date Collected: 01/14/15 14:55

Matrix: Solid

Date Received: 01/15/15 07:30

Percent Solids: 87.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<37		37	9.7	ug/Kg	*	01/15/15 17:32	01/20/15 22:03	1
Isophorone	<190		190	42	ug/Kg	*	01/15/15 17:32	01/20/15 22:03	1
Naphthalene	<37		37	5.8	ug/Kg	*	01/15/15 17:32	01/20/15 22:03	1
Nitrobenzene	<37		37	9.4	ug/Kg	*	01/15/15 17:32	01/20/15 22:03	1
N-Nitrosodi-n-propylamine	<190		190	46	ug/Kg	*	01/15/15 17:32	01/20/15 22:03	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	*	01/15/15 17:32	01/20/15 22:03	1
Pentachlorophenol	<760		760	600	ug/Kg	*	01/15/15 17:32	01/20/15 22:03	1
Phenanthrene	<37		37	5.2	ug/Kg	*	01/15/15 17:32	01/20/15 22:03	1
Phenol	<190		190	83	ug/Kg	*	01/15/15 17:32	01/20/15 22:03	1
Pyrene	8.9	J	37	7.5	ug/Kg	*	01/15/15 17:32	01/20/15 22:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>2,4,6-Tribromophenol</i>	56		35 - 137				01/15/15 17:32	01/20/15 22:03	1
<i>2-Fluorobiphenyl</i>	57		25 - 119				01/15/15 17:32	01/20/15 22:03	1
<i>2-Fluorophenol</i>	57		25 - 110				01/15/15 17:32	01/20/15 22:03	1
<i>Nitrobenzene-d5</i>	52		25 - 115				01/15/15 17:32	01/20/15 22:03	1
<i>Phenol-d5</i>	60		31 - 110				01/15/15 17:32	01/20/15 22:03	1
<i>Terphenyl-d14</i>	71		36 - 134				01/15/15 17:32	01/20/15 22:03	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		01/19/15 08:00	01/19/15 21:26	1
Barium	0.36	J	0.50	0.050	mg/L		01/19/15 08:00	01/19/15 21:26	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/19/15 08:00	01/19/15 21:26	1
Cadmium	0.0025	J	0.0050	0.0020	mg/L		01/19/15 08:00	01/19/15 21:26	1
Chromium	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/19/15 21:26	1
Cobalt	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/19/15 21:26	1
Copper	0.25		0.025	0.010	mg/L		01/19/15 08:00	01/19/15 21:26	1
Iron	0.32		0.20	0.20	mg/L		01/19/15 08:00	01/19/15 21:26	1
Lead	0.017		0.0075	0.0075	mg/L		01/19/15 08:00	01/19/15 21:26	1
Manganese	3.8		0.025	0.010	mg/L		01/19/15 08:00	01/19/15 21:26	1
Nickel	0.016	J	0.025	0.010	mg/L		01/19/15 08:00	01/19/15 21:26	1
Selenium	<0.050		0.050	0.020	mg/L		01/19/15 08:00	01/19/15 21:26	1
Silver	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/19/15 21:26	1
Zinc	0.098	J	0.10	0.020	mg/L		01/19/15 08:00	01/20/15 12:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.061		0.050	0.010	mg/L		01/20/15 08:00	01/20/15 21:41	1
Barium	0.58		0.50	0.050	mg/L		01/20/15 08:00	01/20/15 21:41	1
Beryllium	0.0077		0.0040	0.0040	mg/L		01/20/15 08:00	01/20/15 21:41	1
Cadmium	0.0022	J	0.0050	0.0020	mg/L		01/20/15 08:00	01/20/15 21:41	1
Chromium	0.17		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 21:41	1
Cobalt	0.065		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 21:41	1
Copper	0.28		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 21:41	1
Iron	170		0.20	0.20	mg/L		01/20/15 08:00	01/20/15 21:41	1
Lead	0.12		0.038	0.038	mg/L		01/20/15 08:00	01/21/15 12:42	5
Manganese	1.6		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 21:41	1
Nickel	0.23		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 21:41	1
Selenium	<0.050		0.050	0.020	mg/L		01/20/15 08:00	01/20/15 21:41	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
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TestAmerica Job ID: 500-90789-1

Client Sample ID: UC-1(0-3)-011415

Lab Sample ID: 500-90789-6

Date Collected: 01/14/15 14:55

Matrix: Solid

Date Received: 01/15/15 07:30

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		01/20/15 08:00	01/20/15 21:41	1
Zinc	0.60		0.10	0.020	mg/L		01/20/15 08:00	01/20/15 21:41	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	☼	01/16/15 10:10	01/17/15 19:19	1
Arsenic	6.5		0.53	0.25	mg/Kg	☼	01/16/15 10:10	01/17/15 19:19	1
Barium	35		0.53	0.098	mg/Kg	☼	01/16/15 10:10	01/17/15 19:19	1
Beryllium	0.47		0.21	0.046	mg/Kg	☼	01/16/15 10:10	01/17/15 19:19	1
Cadmium	0.12		0.11	0.031	mg/Kg	☼	01/16/15 10:10	01/17/15 19:19	1
Calcium	96000		110	34	mg/Kg	☼	01/16/15 10:10	01/19/15 15:16	10
Chromium	13		0.53	0.092	mg/Kg	☼	01/16/15 10:10	01/17/15 19:19	1
Cobalt	12		0.27	0.060	mg/Kg	☼	01/16/15 10:10	01/17/15 19:19	1
Copper	21		0.53	0.12	mg/Kg	☼	01/16/15 10:10	01/17/15 19:19	1
Iron	16000		11	4.1	mg/Kg	☼	01/16/15 10:10	01/17/15 19:19	1
Lead	16		0.27	0.13	mg/Kg	☼	01/16/15 10:10	01/17/15 19:19	1
Magnesium	36000		5.3	2.2	mg/Kg	☼	01/16/15 10:10	01/17/15 19:19	1
Manganese	580		0.53	0.11	mg/Kg	☼	01/16/15 10:10	01/17/15 19:19	1
Nickel	27		0.53	0.14	mg/Kg	☼	01/16/15 10:10	01/17/15 19:19	1
Potassium	1500		27	4.3	mg/Kg	☼	01/16/15 10:10	01/17/15 19:19	1
Selenium	0.33	J	0.53	0.26	mg/Kg	☼	01/16/15 10:10	01/19/15 15:12	1
Silver	<0.27		0.27	0.062	mg/Kg	☼	01/16/15 10:10	01/17/15 19:19	1
Sodium	1600	B	53	7.0	mg/Kg	☼	01/16/15 10:10	01/17/15 19:19	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	01/16/15 10:10	01/17/15 19:19	1
Vanadium	15		0.27	0.078	mg/Kg	☼	01/16/15 10:10	01/17/15 19:19	1
Zinc	64		1.1	0.34	mg/Kg	☼	01/16/15 10:10	01/17/15 19:19	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		01/20/15 11:00	01/21/15 09:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		01/20/15 11:00	01/21/15 09:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	22		19	7.5	ug/Kg	☼	01/15/15 13:00	01/16/15 09:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.31		0.200	0.200	SU			01/19/15 12:56	1

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90789-1

Client Sample ID: UC-1(0-3)-011415D

Lab Sample ID: 500-90789-7

Date Collected: 01/14/15 14:55

Matrix: Solid

Date Received: 01/15/15 07:30

Percent Solids: 88.3

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.7		5.7	2.4	ug/Kg	☼		01/16/15 11:56	1
Benzene	<5.7		5.7	0.78	ug/Kg	☼		01/16/15 11:56	1
Bromodichloromethane	<5.7		5.7	0.98	ug/Kg	☼		01/16/15 11:56	1
Bromoform	<5.7		5.7	1.3	ug/Kg	☼		01/16/15 11:56	1
Bromomethane	<5.7		5.7	1.7	ug/Kg	☼		01/16/15 11:56	1
Carbon disulfide	<5.7		5.7	0.85	ug/Kg	☼		01/16/15 11:56	1
Carbon tetrachloride	<5.7		5.7	1.0	ug/Kg	☼		01/16/15 11:56	1
Chlorobenzene	<5.7		5.7	0.57	ug/Kg	☼		01/16/15 11:56	1
Chloroethane	<5.7		5.7	1.5	ug/Kg	☼		01/16/15 11:56	1
Chloroform	<5.7		5.7	0.65	ug/Kg	☼		01/16/15 11:56	1
Chloromethane	<5.7		5.7	1.2	ug/Kg	☼		01/16/15 11:56	1
cis-1,2-Dichloroethene	<5.7		5.7	0.80	ug/Kg	☼		01/16/15 11:56	1
cis-1,3-Dichloropropene	<5.7		5.7	0.74	ug/Kg	☼		01/16/15 11:56	1
Dibromochloromethane	<5.7		5.7	0.99	ug/Kg	☼		01/16/15 11:56	1
1,1-Dichloroethane	<5.7		5.7	0.90	ug/Kg	☼		01/16/15 11:56	1
1,2-Dichloroethane	<5.7		5.7	0.84	ug/Kg	☼		01/16/15 11:56	1
1,1,1-Dichloroethane	<5.7		5.7	0.92	ug/Kg	☼		01/16/15 11:56	1
1,2-Dichloropropane	<5.7		5.7	0.86	ug/Kg	☼		01/16/15 11:56	1
1,3-Dichloropropene, Total	<5.7		5.7	0.74	ug/Kg	☼		01/16/15 11:56	1
Ethylbenzene	<5.7		5.7	1.1	ug/Kg	☼		01/16/15 11:56	1
2-Hexanone	<5.7		5.7	1.6	ug/Kg	☼		01/16/15 11:56	1
Methylene Chloride	<5.7		5.7	1.5	ug/Kg	☼		01/16/15 11:56	1
Methyl Ethyl Ketone	<5.7		5.7	2.1	ug/Kg	☼		01/16/15 11:56	1
methyl isobutyl ketone	<5.7		5.7	1.5	ug/Kg	☼		01/16/15 11:56	1
Methyl tert-butyl ether	<5.7		5.7	0.94	ug/Kg	☼		01/16/15 11:56	1
Styrene	<5.7		5.7	0.74	ug/Kg	☼		01/16/15 11:56	1
1,1,1,2-Tetrachloroethane	<5.7		5.7	1.1	ug/Kg	☼		01/16/15 11:56	1
Tetrachloroethene	<5.7		5.7	0.87	ug/Kg	☼		01/16/15 11:56	1
Toluene	<5.7		5.7	0.79	ug/Kg	☼		01/16/15 11:56	1
trans-1,2-Dichloroethene	<5.7		5.7	0.78	ug/Kg	☼		01/16/15 11:56	1
trans-1,3-Dichloropropene	<5.7 *		5.7	1.0	ug/Kg	☼		01/16/15 11:56	1
1,1,1-Trichloroethane	<5.7		5.7	0.85	ug/Kg	☼		01/16/15 11:56	1
1,1,2-Trichloroethane	<5.7		5.7	0.77	ug/Kg	☼		01/16/15 11:56	1
Trichloroethene	<5.7		5.7	0.93	ug/Kg	☼		01/16/15 11:56	1
Vinyl chloride	<5.7		5.7	1.2	ug/Kg	☼		01/16/15 11:56	1
Xylenes, Total	<11		11	0.51	ug/Kg	☼		01/16/15 11:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122		01/16/15 11:56	1
Dibromofluoromethane	98		75 - 120		01/16/15 11:56	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134		01/16/15 11:56	1
Toluene-d8 (Surr)	99		75 - 122		01/16/15 11:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<180		180	38	ug/Kg	☼	01/15/15 17:32	01/20/15 22:25	1
1,2-Dichlorobenzene	<180		180	43	ug/Kg	☼	01/15/15 17:32	01/20/15 22:25	1
1,3-Dichlorobenzene	<180		180	40	ug/Kg	☼	01/15/15 17:32	01/20/15 22:25	1
1,4-Dichlorobenzene	<180		180	46	ug/Kg	☼	01/15/15 17:32	01/20/15 22:25	1
2,2'-oxybis[1-chloropropane]	<180		180	41	ug/Kg	☼	01/15/15 17:32	01/20/15 22:25	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90789-1

Client Sample ID: UC-1(0-3)-011415D

Lab Sample ID: 500-90789-7

Date Collected: 01/14/15 14:55

Matrix: Solid

Date Received: 01/15/15 07:30

Percent Solids: 88.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<350		350	81	ug/Kg	*	01/15/15 17:32	01/20/15 22:25	1
2,4,6-Trichlorophenol	<350		350	120	ug/Kg	*	01/15/15 17:32	01/20/15 22:25	1
2,4-Dichlorophenol	<350		350	85	ug/Kg	*	01/15/15 17:32	01/20/15 22:25	1
2,4-Dimethylphenol	<350		350	140	ug/Kg	*	01/15/15 17:32	01/20/15 22:25	1
2,4-Dinitrophenol	<720		720	630	ug/Kg	*	01/15/15 17:32	01/20/15 22:25	1
2,4-Dinitrotoluene	<180		180	57	ug/Kg	*	01/15/15 17:32	01/20/15 22:25	1
2,6-Dinitrotoluene	<180		180	70	ug/Kg	*	01/15/15 17:32	01/20/15 22:25	1
2-Chloronaphthalene	<180		180	39	ug/Kg	*	01/15/15 17:32	01/20/15 22:25	1
2-Chlorophenol	<180		180	61	ug/Kg	*	01/15/15 17:32	01/20/15 22:25	1
2-Methylnaphthalene	<35		35	6.6	ug/Kg	*	01/15/15 17:32	01/20/15 22:25	1
2-Methylphenol	<180		180	57	ug/Kg	*	01/15/15 17:32	01/20/15 22:25	1
2-Nitroaniline	<180		180	48	ug/Kg	*	01/15/15 17:32	01/20/15 22:25	1
2-Nitrophenol	<350		350	84	ug/Kg	*	01/15/15 17:32	01/20/15 22:25	1
3 & 4 Methylphenol	<180		180	59	ug/Kg	*	01/15/15 17:32	01/20/15 22:25	1
3,3'-Dichlorobenzidine	<180		180	50	ug/Kg	*	01/15/15 17:32	01/20/15 22:25	1
3-Nitroaniline	<350		350	110	ug/Kg	*	01/15/15 17:32	01/20/15 22:25	1
4,6-Dinitro-2-methylphenol	<350		350	290	ug/Kg	*	01/15/15 17:32	01/20/15 22:25	1
4-Bromophenyl phenyl ether	<180		180	47	ug/Kg	*	01/15/15 17:32	01/20/15 22:25	1
4-Chloro-3-methylphenol	<350		350	120	ug/Kg	*	01/15/15 17:32	01/20/15 22:25	1
4-Chloroaniline	<720		720	170	ug/Kg	*	01/15/15 17:32	01/20/15 22:25	1
4-Chlorophenyl phenyl ether	<180		180	42	ug/Kg	*	01/15/15 17:32	01/20/15 22:25	1
4-Nitroaniline	<350		350	150	ug/Kg	*	01/15/15 17:32	01/20/15 22:25	1
4-Nitrophenol	<720		720	340	ug/Kg	*	01/15/15 17:32	01/20/15 22:25	1
Acenaphthene	<35		35	6.4	ug/Kg	*	01/15/15 17:32	01/20/15 22:25	1
Acenaphthylene	<35		35	4.7	ug/Kg	*	01/15/15 17:32	01/20/15 22:25	1
Anthracene	<35		35	5.9	ug/Kg	*	01/15/15 17:32	01/20/15 22:25	1
Benzo[a]anthracene	7.0	J	35	4.8	ug/Kg	*	01/15/15 17:32	01/20/15 22:25	1
Benzo[a]pyrene	<35		35	6.9	ug/Kg	*	01/15/15 17:32	01/20/15 22:25	1
Benzo[b]fluoranthene	11	J	35	7.7	ug/Kg	*	01/15/15 17:32	01/20/15 22:25	1
Benzo[g,h,i]perylene	<35		35	11	ug/Kg	*	01/15/15 17:32	01/20/15 22:25	1
Benzo[k]fluoranthene	<35		35	10	ug/Kg	*	01/15/15 17:32	01/20/15 22:25	1
Bis(2-chloroethoxy)methane	<180		180	36	ug/Kg	*	01/15/15 17:32	01/20/15 22:25	1
Bis(2-chloroethyl)ether	<180		180	53	ug/Kg	*	01/15/15 17:32	01/20/15 22:25	1
Bis(2-ethylhexyl) phthalate	<180		180	65	ug/Kg	*	01/15/15 17:32	01/20/15 22:25	1
Butyl benzyl phthalate	<180		180	68	ug/Kg	*	01/15/15 17:32	01/20/15 22:25	1
Carbazole	<180		180	92	ug/Kg	*	01/15/15 17:32	01/20/15 22:25	1
Chrysene	<35		35	9.7	ug/Kg	*	01/15/15 17:32	01/20/15 22:25	1
Dibenz(a,h)anthracene	<35		35	6.9	ug/Kg	*	01/15/15 17:32	01/20/15 22:25	1
Dibenzofuran	<180		180	42	ug/Kg	*	01/15/15 17:32	01/20/15 22:25	1
Diethyl phthalate	<180		180	60	ug/Kg	*	01/15/15 17:32	01/20/15 22:25	1
Dimethyl phthalate	<180		180	47	ug/Kg	*	01/15/15 17:32	01/20/15 22:25	1
Di-n-butyl phthalate	<180		180	54	ug/Kg	*	01/15/15 17:32	01/20/15 22:25	1
Di-n-octyl phthalate	<180		180	58	ug/Kg	*	01/15/15 17:32	01/20/15 22:25	1
Fluoranthene	11	J	35	6.6	ug/Kg	*	01/15/15 17:32	01/20/15 22:25	1
Fluorene	<35		35	5.0	ug/Kg	*	01/15/15 17:32	01/20/15 22:25	1
Hexachlorobenzene	<72		72	8.3	ug/Kg	*	01/15/15 17:32	01/20/15 22:25	1
Hexachlorobutadiene	<180		180	56	ug/Kg	*	01/15/15 17:32	01/20/15 22:25	1
Hexachlorocyclopentadiene	<720	*	720	200	ug/Kg	*	01/15/15 17:32	01/20/15 22:25	1
Hexachloroethane	<180		180	54	ug/Kg	*	01/15/15 17:32	01/20/15 22:25	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90789-1

Client Sample ID: UC-1(0-3)-011415D

Lab Sample ID: 500-90789-7

Date Collected: 01/14/15 14:55

Matrix: Solid

Date Received: 01/15/15 07:30

Percent Solids: 88.3

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	<35		35	9.2	ug/Kg	☼	01/15/15 17:32	01/20/15 22:25	1
Isophorone	<180		180	40	ug/Kg	☼	01/15/15 17:32	01/20/15 22:25	1
Naphthalene	<35		35	5.5	ug/Kg	☼	01/15/15 17:32	01/20/15 22:25	1
Nitrobenzene	<35		35	8.9	ug/Kg	☼	01/15/15 17:32	01/20/15 22:25	1
N-Nitrosodi-n-propylamine	<180		180	44	ug/Kg	☼	01/15/15 17:32	01/20/15 22:25	1
N-Nitrosodiphenylamine	<180		180	42	ug/Kg	☼	01/15/15 17:32	01/20/15 22:25	1
Pentachlorophenol	<720		720	570	ug/Kg	☼	01/15/15 17:32	01/20/15 22:25	1
Phenanthrene	<35		35	5.0	ug/Kg	☼	01/15/15 17:32	01/20/15 22:25	1
Phenol	<180		180	79	ug/Kg	☼	01/15/15 17:32	01/20/15 22:25	1
Pyrene	11	J	35	7.1	ug/Kg	☼	01/15/15 17:32	01/20/15 22:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	41		35 - 137	01/15/15 17:32	01/20/15 22:25	1
2-Fluorobiphenyl	41		25 - 119	01/15/15 17:32	01/20/15 22:25	1
2-Fluorophenol	41		25 - 110	01/15/15 17:32	01/20/15 22:25	1
Nitrobenzene-d5	39		25 - 115	01/15/15 17:32	01/20/15 22:25	1
Phenol-d5	41		31 - 110	01/15/15 17:32	01/20/15 22:25	1
Terphenyl-d14	60		36 - 134	01/15/15 17:32	01/20/15 22:25	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/19/15 08:00	01/19/15 21:31	1
Barium	0.33	J	0.50	0.050	mg/L		01/19/15 08:00	01/19/15 21:31	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/19/15 08:00	01/19/15 21:31	1
Cadmium	0.0023	J	0.0050	0.0020	mg/L		01/19/15 08:00	01/19/15 21:31	1
Chromium	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/19/15 21:31	1
Cobalt	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/19/15 21:31	1
Copper	0.019	J	0.025	0.010	mg/L		01/19/15 08:00	01/19/15 21:31	1
Iron	0.20		0.20	0.20	mg/L		01/19/15 08:00	01/19/15 21:31	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/19/15 08:00	01/19/15 21:31	1
Manganese	3.9		0.025	0.010	mg/L		01/19/15 08:00	01/19/15 21:31	1
Nickel	0.014	J	0.025	0.010	mg/L		01/19/15 08:00	01/19/15 21:31	1
Selenium	<0.050		0.050	0.020	mg/L		01/19/15 08:00	01/19/15 21:31	1
Silver	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/19/15 21:31	1
Zinc	0.025	J ^	0.10	0.020	mg/L		01/19/15 08:00	01/19/15 21:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.061		0.050	0.010	mg/L		01/20/15 08:00	01/20/15 21:46	1
Barium	0.54		0.50	0.050	mg/L		01/20/15 08:00	01/20/15 21:46	1
Beryllium	0.0074		0.0040	0.0040	mg/L		01/20/15 08:00	01/20/15 21:46	1
Cadmium	0.0020	J	0.0050	0.0020	mg/L		01/20/15 08:00	01/20/15 21:46	1
Chromium	0.16		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 21:46	1
Cobalt	0.067		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 21:46	1
Copper	0.32		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 21:46	1
Iron	160		0.20	0.20	mg/L		01/20/15 08:00	01/20/15 21:46	1
Lead	0.13		0.038	0.038	mg/L		01/20/15 08:00	01/21/15 12:46	5
Manganese	1.7		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 21:46	1
Nickel	0.23		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 21:46	1
Selenium	<0.050		0.050	0.020	mg/L		01/20/15 08:00	01/20/15 21:46	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90789-1

Client Sample ID: UC-1(0-3)-011415D

Lab Sample ID: 500-90789-7

Date Collected: 01/14/15 14:55

Matrix: Solid

Date Received: 01/15/15 07:30

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		01/20/15 08:00	01/20/15 21:46	1
Zinc	0.62		0.10	0.020	mg/L		01/20/15 08:00	01/20/15 21:46	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	01/16/15 10:10	01/17/15 19:24	1
Arsenic	5.8		0.55	0.25	mg/Kg	☼	01/16/15 10:10	01/17/15 19:24	1
Barium	41		0.55	0.10	mg/Kg	☼	01/16/15 10:10	01/17/15 19:24	1
Beryllium	0.62		0.22	0.047	mg/Kg	☼	01/16/15 10:10	01/17/15 19:24	1
Cadmium	0.034	J	0.11	0.032	mg/Kg	☼	01/16/15 10:10	01/17/15 19:24	1
Calcium	73000		110	35	mg/Kg	☼	01/16/15 10:10	01/19/15 15:25	10
Chromium	17		0.55	0.094	mg/Kg	☼	01/16/15 10:10	01/17/15 19:24	1
Cobalt	11		0.27	0.062	mg/Kg	☼	01/16/15 10:10	01/17/15 19:24	1
Copper	22		0.55	0.12	mg/Kg	☼	01/16/15 10:10	01/17/15 19:24	1
Iron	17000		11	4.2	mg/Kg	☼	01/16/15 10:10	01/17/15 19:24	1
Lead	15		0.27	0.14	mg/Kg	☼	01/16/15 10:10	01/17/15 19:24	1
Magnesium	31000		5.5	2.2	mg/Kg	☼	01/16/15 10:10	01/17/15 19:24	1
Manganese	410		0.55	0.11	mg/Kg	☼	01/16/15 10:10	01/17/15 19:24	1
Nickel	28		0.55	0.15	mg/Kg	☼	01/16/15 10:10	01/17/15 19:24	1
Potassium	1800		27	4.5	mg/Kg	☼	01/16/15 10:10	01/17/15 19:24	1
Selenium	0.38	J	0.55	0.27	mg/Kg	☼	01/16/15 10:10	01/19/15 15:21	1
Silver	<0.27		0.27	0.064	mg/Kg	☼	01/16/15 10:10	01/17/15 19:24	1
Sodium	2100	B	55	7.2	mg/Kg	☼	01/16/15 10:10	01/17/15 19:24	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	01/16/15 10:10	01/17/15 19:24	1
Vanadium	19		0.27	0.080	mg/Kg	☼	01/16/15 10:10	01/17/15 19:24	1
Zinc	62		1.1	0.35	mg/Kg	☼	01/16/15 10:10	01/17/15 19:24	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		01/20/15 11:00	01/21/15 09:31	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		01/20/15 11:00	01/21/15 09:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	16	J	19	7.3	ug/Kg	☼	01/15/15 13:00	01/16/15 09:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.32		0.200	0.200	SU			01/19/15 13:01	1

Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90789-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits

GC/MS Semi VOA

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

Metals

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90789-1

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-15

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

Analysis Method	Prep Method	Matrix	Analyte
7470A	7470A	Solid	Mercury
8260B		Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

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TestAmerica

THE LEADER IN ENVIRONMENTAL

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



500-90789 COC

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

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

Chain of Custody Record

Lab Job #: 500-90789
 Chain of Custody Number: _____
 Page 3 of 3
 Temperature °C of Cooler: 3, 2, 2, 8

Client		Client Project #		Preservative		Parameter		Matrix		Comments	
Weston				7	7	7	7	7			
Project Name		Lab Project #		Date		Time		Matrix			
IDOT 001											
Project Location/State		Lab Project #		Date		Time		Matrix			
IL											
Sampler		Lab PM		Date		Time		Matrix			
M. Strou		D. Wright									
Lab ID	MIS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs	SVOCs	Total Metals	TCUP/SPLP Metals	pH
1		LC-4 (0-3)-011415	1/14/15	1350	2	S	X	X	X	X	X
2		LC-3 (0-3)-011415		1400							
3		LC-2 (0-3)-011415		1415							
4		LC-1 (0-3)-011415		1425							
5		UC-2 (0-3)-011415		1440							
6		UC-1 (0-3)-011415		1455							
7		UC-1 (0-3)-011415D		1455							
8		FP-7 (0-3)-011415		1510							
9		FP-6 (0-3)-011415		1525							

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

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

Requested Due Date _____

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

Relinquished By <u>M. Strou</u>	Company <u>Weston</u>	Date <u>1/14/15</u>	Time <u>1540</u>	Received By <u>K. A. [Signature]</u>	Company <u>TA</u>	Date <u>1/14/15</u>	Time <u>1540</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>1/14/15</u>	Time <u>1720</u>	Received By <u>[Signature]</u>	Company <u>TA-CHE</u>	Date <u>1/15/15</u>	Time <u>0730</u>

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: _____



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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 346: US 41 from IL 21 to West Park Ave Office Phone Number, if available: _____

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

1820 N. Skokie Highway (US 41)

City: Gurnee State: IL Zip Code: _____

County: Lake Township: _____

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

Latitude: 42.38582576 Longitude: -87.9212506

(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: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

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

Project Name: FAP 346: US 41 from IL 21 to West Park Ave

Latitude: 42.38582576 Longitude: -87.9212506

Uncontaminated Site Certification

III. Basis for Certification and Attachments

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

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

LOCATION TM-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2668A-11. SEE FIGURE 3-1 AND TABLE 4-1 OF THE REVISED 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]:

TEST AMERICA ANALYTICAL REPORT - JOB ID: 500-90788-1.

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

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

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

Company Name: Illinois Department of Transportation

Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Kurt T. Fischer P.G.

Printed Name:



2/9/15

Date:



Licensed Professional Engineer or Licensed Professional Geologist Signature:

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

Summary Table of ISGS Site No. 2668A-11
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 346: US Route 41 (Skokie Highway) from IL Route 21 to West Park Avenue
Gurnee, Park City, Waukegan, and North Chicago, Lake County, Illinois

Field Sample ID	TM-1(0-3)-011415	Soil Reference Concentrations^A
Sample Date	1/14/2015	
Location ID	TM-1	
Depth	0 - 3	
ISGS Site Number	2668A-11	
Parameter		
Laboratory pH (s.u.)	8.95	<6.25,>9.0
VOCs (ug/kg)	None Detected	
SVOCs (ug/kg)		
Benzo(a)anthracene	8.9 J	900 / 1100 / 1800
Benzo(a)pyrene	11 J	90 / 1300 / 2100
Benzo(b)fluoranthene	20 J	900 / 1500 / 2100
Benzo(g,h,i)perylene	15 J	---
Fluoranthene	14 J	3100000
Indeno(1,2,3-cd)pyrene	11 J	900 / 900 / 1600
Pyrene	15 J	2300000
Total Metals (mg/kg)		
Antimony, Total	0.35 J	5
Arsenic, Total	7.9 J	11.3 / 13
Barium, Total	48 J	1500
Beryllium, Total	0.63	22
Cadmium, Total	0.39 J-	5.2
Calcium, Total	60000 J	---
Chromium, Total	17	21
Cobalt, Total	8.7 J-	20
Copper, Total	24	2900
Iron, Total	20000 J-	15000 / 15900
Lead, Total	17 J-	107
Magnesium, Total	24000 J	325000
Manganese, Total	590 J	630 / 636
Mercury, Total	0.018 J	0.89
Nickel, Total	23 J-	100
Potassium, Total	2500 J+	---
Selenium, Total	0.39 J	1.3
Sodium, Total	590 J-	---
Thallium, Total	0.89 J-	2.6
Vanadium, Total	23	550
Zinc, Total	54 J-	5100
TCLP Metals (mg/l)		
Barium, TCLP	0.27 J	2
Copper, TCLP	0.029	0.65
Manganese, TCLP	0.04	0.15
Zinc, TCLP	0.034 J	5
SPLP Metals (mg/l)		
Arsenic, SPLP	0.028 J	0.05
Barium, SPLP	0.26 J	2
Chromium, SPLP	0.077	0.1
Cobalt, SPLP	0.017 J	1
Copper, SPLP	0.19	0.65
Iron, SPLP	76 J+	5
Lead, SPLP	0.051	0.0075
Manganese, SPLP	0.32	0.15
Nickel, SPLP	0.085	0.1
Zinc, SPLP	0.35	5

Notes:

--- - not applicable or value not available.

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

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: 500-90788-1
Client Project/Site: IDOT - Lake County - WO 001

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

Attn: Mr. S. Babusukumar



Authorized for release by:
1/23/2015 1:15:32 PM

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

LINKS

Review your project
results through
TotalAccess

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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 - Lake County - WO 001

TestAmerica Job ID: 500-90788-1

Client Sample ID: TM-1(0-3)-011415

Lab Sample ID: 500-90788-5

Date Collected: 01/14/15 09:40

Matrix: Solid

Date Received: 01/15/15 07:30

Percent Solids: 82.2

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<6.1		6.1	2.6	ug/Kg	*		01/16/15 20:17	1
Benzene	<6.1		6.1	0.83	ug/Kg	*		01/16/15 20:17	1
Bromodichloromethane	<6.1		6.1	1.0	ug/Kg	*		01/16/15 20:17	1
Bromoform	<6.1		6.1	1.4	ug/Kg	*		01/16/15 20:17	1
Bromomethane	<6.1		6.1	1.8	ug/Kg	*		01/16/15 20:17	1
Carbon disulfide	<6.1		6.1	0.91	ug/Kg	*		01/16/15 20:17	1
Carbon tetrachloride	<6.1		6.1	1.1	ug/Kg	*		01/16/15 20:17	1
Chlorobenzene	<6.1		6.1	0.62	ug/Kg	*		01/16/15 20:17	1
Chloroethane	<6.1		6.1	1.7	ug/Kg	*		01/16/15 20:17	1
Chloroform	<6.1		6.1	0.70	ug/Kg	*		01/16/15 20:17	1
Chloromethane	<6.1		6.1	1.3	ug/Kg	*		01/16/15 20:17	1
cis-1,2-Dichloroethene	<6.1		6.1	0.86	ug/Kg	*		01/16/15 20:17	1
cis-1,3-Dichloropropene	<6.1		6.1	0.80	ug/Kg	*		01/16/15 20:17	1
Dibromochloromethane	<6.1		6.1	1.1	ug/Kg	*		01/16/15 20:17	1
1,1-Dichloroethane	<6.1		6.1	0.96	ug/Kg	*		01/16/15 20:17	1
1,2-Dichloroethane	<6.1		6.1	0.90	ug/Kg	*		01/16/15 20:17	1
1,1,1-Dichloroethene	<6.1		6.1	0.98	ug/Kg	*		01/16/15 20:17	1
1,2-Dichloropropane	<6.1		6.1	0.92	ug/Kg	*		01/16/15 20:17	1
1,3-Dichloropropene, Total	<6.1		6.1	0.80	ug/Kg	*		01/16/15 20:17	1
Ethylbenzene	<6.1		6.1	1.2	ug/Kg	*		01/16/15 20:17	1
2-Hexanone	<6.1		6.1	1.8	ug/Kg	*		01/16/15 20:17	1
Methylene Chloride	<6.1		6.1	1.6	ug/Kg	*		01/16/15 20:17	1
Methyl Ethyl Ketone	<6.1		6.1	2.2	ug/Kg	*		01/16/15 20:17	1
methyl isobutyl ketone	<6.1		6.1	1.6	ug/Kg	*		01/16/15 20:17	1
Methyl tert-butyl ether	<6.1		6.1	1.0	ug/Kg	*		01/16/15 20:17	1
Styrene	<6.1		6.1	0.80	ug/Kg	*		01/16/15 20:17	1
1,1,1,2-Tetrachloroethane	<6.1		6.1	1.2	ug/Kg	*		01/16/15 20:17	1
Tetrachloroethene	<6.1		6.1	0.93	ug/Kg	*		01/16/15 20:17	1
Toluene	<6.1		6.1	0.85	ug/Kg	*		01/16/15 20:17	1
trans-1,2-Dichloroethene	<6.1		6.1	0.84	ug/Kg	*		01/16/15 20:17	1
trans-1,3-Dichloropropene	<6.1	*	6.1	1.1	ug/Kg	*		01/16/15 20:17	1
1,1,1-Trichloroethane	<6.1		6.1	0.91	ug/Kg	*		01/16/15 20:17	1
1,1,2-Trichloroethane	<6.1		6.1	0.83	ug/Kg	*		01/16/15 20:17	1
Trichloroethene	<6.1		6.1	1.0	ug/Kg	*		01/16/15 20:17	1
Vinyl chloride	<6.1		6.1	1.3	ug/Kg	*		01/16/15 20:17	1
Xylenes, Total	<12		12	0.55	ug/Kg	*		01/16/15 20:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122		01/16/15 20:17	1
Dibromofluoromethane	104		75 - 120		01/16/15 20:17	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134		01/16/15 20:17	1
Toluene-d8 (Surr)	98		75 - 122		01/16/15 20:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<200		200	43	ug/Kg	*	01/15/15 16:05	01/20/15 20:22	1
1,2-Dichlorobenzene	<200		200	48	ug/Kg	*	01/15/15 16:05	01/20/15 20:22	1
1,3-Dichlorobenzene	<200		200	45	ug/Kg	*	01/15/15 16:05	01/20/15 20:22	1
1,4-Dichlorobenzene	<200		200	51	ug/Kg	*	01/15/15 16:05	01/20/15 20:22	1
2,2'-oxybis[1-chloropropane]	<200		200	46	ug/Kg	*	01/15/15 16:05	01/20/15 20:22	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90788-1

Client Sample ID: TM-1(0-3)-011415

Lab Sample ID: 500-90788-5

Date Collected: 01/14/15 09:40

Matrix: Solid

Date Received: 01/15/15 07:30

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	☼	01/15/15 16:05	01/20/15 20:22	1
2,4,6-Trichlorophenol	<400		400	140	ug/Kg	☼	01/15/15 16:05	01/20/15 20:22	1
2,4-Dichlorophenol	<400		400	95	ug/Kg	☼	01/15/15 16:05	01/20/15 20:22	1
2,4-Dimethylphenol	<400		400	150	ug/Kg	☼	01/15/15 16:05	01/20/15 20:22	1
2,4-Dinitrophenol	<810		810	710	ug/Kg	☼	01/15/15 16:05	01/20/15 20:22	1
2,4-Dinitrotoluene	<200		200	64	ug/Kg	☼	01/15/15 16:05	01/20/15 20:22	1
2,6-Dinitrotoluene	<200		200	79	ug/Kg	☼	01/15/15 16:05	01/20/15 20:22	1
2-Chloronaphthalene	<200		200	44	ug/Kg	☼	01/15/15 16:05	01/20/15 20:22	1
2-Chlorophenol	<200		200	68	ug/Kg	☼	01/15/15 16:05	01/20/15 20:22	1
2-Methylnaphthalene	<40		40	7.4	ug/Kg	☼	01/15/15 16:05	01/20/15 20:22	1
2-Methylphenol	<200		200	64	ug/Kg	☼	01/15/15 16:05	01/20/15 20:22	1
2-Nitroaniline	<200		200	54	ug/Kg	☼	01/15/15 16:05	01/20/15 20:22	1
2-Nitrophenol	<400		400	95	ug/Kg	☼	01/15/15 16:05	01/20/15 20:22	1
3 & 4 Methylphenol	<200		200	67	ug/Kg	☼	01/15/15 16:05	01/20/15 20:22	1
3,3'-Dichlorobenzidine	<200		200	56	ug/Kg	☼	01/15/15 16:05	01/20/15 20:22	1
3-Nitroaniline	<400		400	120	ug/Kg	☼	01/15/15 16:05	01/20/15 20:22	1
4,6-Dinitro-2-methylphenol	<400		400	320	ug/Kg	☼	01/15/15 16:05	01/20/15 20:22	1
4-Bromophenyl phenyl ether	<200		200	53	ug/Kg	☼	01/15/15 16:05	01/20/15 20:22	1
4-Chloro-3-methylphenol	<400		400	140	ug/Kg	☼	01/15/15 16:05	01/20/15 20:22	1
4-Chloroaniline	<810		810	190	ug/Kg	☼	01/15/15 16:05	01/20/15 20:22	1
4-Chlorophenyl phenyl ether	<200		200	47	ug/Kg	☼	01/15/15 16:05	01/20/15 20:22	1
4-Nitroaniline	<400		400	170	ug/Kg	☼	01/15/15 16:05	01/20/15 20:22	1
4-Nitrophenol	<810		810	380	ug/Kg	☼	01/15/15 16:05	01/20/15 20:22	1
Acenaphthene	<40		40	7.2	ug/Kg	☼	01/15/15 16:05	01/20/15 20:22	1
Acenaphthylene	<40		40	5.3	ug/Kg	☼	01/15/15 16:05	01/20/15 20:22	1
Anthracene	<40		40	6.7	ug/Kg	☼	01/15/15 16:05	01/20/15 20:22	1
Benzo[a]anthracene	8.9 J		40	5.4	ug/Kg	☼	01/15/15 16:05	01/20/15 20:22	1
Benzo[a]pyrene	11 J		40	7.8	ug/Kg	☼	01/15/15 16:05	01/20/15 20:22	1
Benzo[b]fluoranthene	20 J		40	8.7	ug/Kg	☼	01/15/15 16:05	01/20/15 20:22	1
Benzo[g,h,i]perylene	15 J		40	13	ug/Kg	☼	01/15/15 16:05	01/20/15 20:22	1
Benzo[k]fluoranthene	<40		40	12	ug/Kg	☼	01/15/15 16:05	01/20/15 20:22	1
Bis(2-chloroethoxy)methane	<200		200	41	ug/Kg	☼	01/15/15 16:05	01/20/15 20:22	1
Bis(2-chloroethyl)ether	<200		200	60	ug/Kg	☼	01/15/15 16:05	01/20/15 20:22	1
Bis(2-ethylhexyl) phthalate	<200		200	73	ug/Kg	☼	01/15/15 16:05	01/20/15 20:22	1
Butyl benzyl phthalate	<200		200	76	ug/Kg	☼	01/15/15 16:05	01/20/15 20:22	1
Carbazole	<200		200	100	ug/Kg	☼	01/15/15 16:05	01/20/15 20:22	1
Chrysene	<40		40	11	ug/Kg	☼	01/15/15 16:05	01/20/15 20:22	1
Dibenz(a,h)anthracene	<40		40	7.7	ug/Kg	☼	01/15/15 16:05	01/20/15 20:22	1
Dibenzofuran	<200		200	47	ug/Kg	☼	01/15/15 16:05	01/20/15 20:22	1
Diethyl phthalate	<200		200	68	ug/Kg	☼	01/15/15 16:05	01/20/15 20:22	1
Dimethyl phthalate	<200		200	52	ug/Kg	☼	01/15/15 16:05	01/20/15 20:22	1
Di-n-butyl phthalate	<200		200	61	ug/Kg	☼	01/15/15 16:05	01/20/15 20:22	1
Di-n-octyl phthalate	<200		200	65	ug/Kg	☼	01/15/15 16:05	01/20/15 20:22	1
Fluoranthene	14 J		40	7.4	ug/Kg	☼	01/15/15 16:05	01/20/15 20:22	1
Fluorene	<40		40	5.6	ug/Kg	☼	01/15/15 16:05	01/20/15 20:22	1
Hexachlorobenzene	<81		81	9.3	ug/Kg	☼	01/15/15 16:05	01/20/15 20:22	1
Hexachlorobutadiene	<200		200	63	ug/Kg	☼	01/15/15 16:05	01/20/15 20:22	1
Hexachlorocyclopentadiene	<810		810	230	ug/Kg	☼	01/15/15 16:05	01/20/15 20:22	1
Hexachloroethane	<200		200	61	ug/Kg	☼	01/15/15 16:05	01/20/15 20:22	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90788-1

Client Sample ID: TM-1(0-3)-011415

Lab Sample ID: 500-90788-5

Date Collected: 01/14/15 09:40

Matrix: Solid

Date Received: 01/15/15 07:30

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	11	J	40	10	ug/Kg	*	01/15/15 16:05	01/20/15 20:22	1
Isophorone	<200		200	45	ug/Kg	*	01/15/15 16:05	01/20/15 20:22	1
Naphthalene	<40		40	6.2	ug/Kg	*	01/15/15 16:05	01/20/15 20:22	1
Nitrobenzene	<40		40	10	ug/Kg	*	01/15/15 16:05	01/20/15 20:22	1
N-Nitrosodi-n-propylamine	<200		200	49	ug/Kg	*	01/15/15 16:05	01/20/15 20:22	1
N-Nitrosodiphenylamine	<200		200	47	ug/Kg	*	01/15/15 16:05	01/20/15 20:22	1
Pentachlorophenol	<810		810	640	ug/Kg	*	01/15/15 16:05	01/20/15 20:22	1
Phenanthrene	<40		40	5.6	ug/Kg	*	01/15/15 16:05	01/20/15 20:22	1
Phenol	<200		200	89	ug/Kg	*	01/15/15 16:05	01/20/15 20:22	1
Pyrene	15	J	40	8.0	ug/Kg	*	01/15/15 16:05	01/20/15 20:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	60		35 - 137				01/15/15 16:05	01/20/15 20:22	1
2-Fluorobiphenyl	42		25 - 119				01/15/15 16:05	01/20/15 20:22	1
2-Fluorophenol	50		25 - 110				01/15/15 16:05	01/20/15 20:22	1
Nitrobenzene-d5	44		25 - 115				01/15/15 16:05	01/20/15 20:22	1
Phenol-d5	46		31 - 110				01/15/15 16:05	01/20/15 20:22	1
Terphenyl-d14	67		36 - 134				01/15/15 16:05	01/20/15 20:22	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/19/15 08:00	01/19/15 23:09	1
Barium	0.27	J	0.50	0.050	mg/L		01/19/15 08:00	01/19/15 23:09	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/19/15 08:00	01/19/15 23:09	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/19/15 08:00	01/19/15 23:09	1
Chromium	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/19/15 23:09	1
Cobalt	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/19/15 23:09	1
Copper	0.029		0.025	0.010	mg/L		01/19/15 08:00	01/19/15 23:09	1
Iron	<0.20		0.20	0.20	mg/L		01/19/15 08:00	01/19/15 23:09	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/19/15 08:00	01/19/15 23:09	1
Manganese	0.040		0.025	0.010	mg/L		01/19/15 08:00	01/19/15 23:09	1
Nickel	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/19/15 23:09	1
Selenium	<0.050		0.050	0.020	mg/L		01/19/15 08:00	01/19/15 23:09	1
Silver	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/19/15 23:09	1
Zinc	0.034	J	0.10	0.020	mg/L		01/19/15 08:00	01/19/15 23:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.028	J	0.050	0.010	mg/L		01/20/15 08:00	01/20/15 22:48	1
Barium	0.26	J	0.50	0.050	mg/L		01/20/15 08:00	01/20/15 22:48	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/20/15 08:00	01/20/15 22:48	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/20/15 08:00	01/20/15 22:48	1
Chromium	0.077		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 22:48	1
Cobalt	0.017	J	0.025	0.010	mg/L		01/20/15 08:00	01/20/15 22:48	1
Copper	0.19		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 22:48	1
Iron	76		0.20	0.20	mg/L		01/20/15 08:00	01/20/15 22:48	1
Lead	0.051		0.038	0.038	mg/L		01/20/15 08:00	01/22/15 11:06	5
Manganese	0.32		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 22:48	1
Nickel	0.085		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 22:48	1
Selenium	<0.050		0.050	0.020	mg/L		01/20/15 08:00	01/20/15 22:48	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90788-1

Client Sample ID: TM-1(0-3)-011415

Lab Sample ID: 500-90788-5

Date Collected: 01/14/15 09:40

Matrix: Solid

Date Received: 01/15/15 07:30

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		01/20/15 08:00	01/20/15 22:48	1
Zinc	0.35		0.10	0.020	mg/L		01/20/15 08:00	01/20/15 22:48	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.35	J	1.2	0.25	mg/Kg	☼	01/18/15 16:30	01/20/15 02:16	1
Arsenic	7.9		0.61	0.28	mg/Kg	☼	01/18/15 16:30	01/20/15 02:16	1
Barium	48		0.61	0.11	mg/Kg	☼	01/18/15 16:30	01/20/15 02:16	1
Beryllium	0.63		0.24	0.052	mg/Kg	☼	01/18/15 16:30	01/20/15 02:16	1
Cadmium	0.39		0.12	0.035	mg/Kg	☼	01/18/15 16:30	01/20/15 02:16	1
Calcium	60000		12	3.9	mg/Kg	☼	01/18/15 16:30	01/20/15 02:16	1
Chromium	17		0.61	0.10	mg/Kg	☼	01/18/15 16:30	01/20/15 02:16	1
Cobalt	8.7		0.30	0.068	mg/Kg	☼	01/18/15 16:30	01/20/15 02:16	1
Copper	24		0.61	0.13	mg/Kg	☼	01/18/15 16:30	01/20/15 02:16	1
Iron	20000		12	4.7	mg/Kg	☼	01/18/15 16:30	01/20/15 02:16	1
Lead	17		0.30	0.15	mg/Kg	☼	01/18/15 16:30	01/20/15 02:16	1
Magnesium	24000		6.1	2.5	mg/Kg	☼	01/18/15 16:30	01/20/15 02:16	1
Manganese	590		0.61	0.12	mg/Kg	☼	01/18/15 16:30	01/20/15 02:16	1
Nickel	23		0.61	0.16	mg/Kg	☼	01/18/15 16:30	01/20/15 02:16	1
Potassium	2500		30	4.9	mg/Kg	☼	01/18/15 16:30	01/20/15 02:16	1
Selenium	0.39	J	0.61	0.30	mg/Kg	☼	01/18/15 16:30	01/20/15 02:16	1
Silver	<0.30		0.30	0.071	mg/Kg	☼	01/18/15 16:30	01/20/15 02:16	1
Sodium	590		61	8.0	mg/Kg	☼	01/18/15 16:30	01/20/15 02:16	1
Thallium	0.89		0.61	0.30	mg/Kg	☼	01/18/15 16:30	01/20/15 02:16	1
Vanadium	23		0.30	0.088	mg/Kg	☼	01/18/15 16:30	01/20/15 02:16	1
Zinc	54	B	1.2	0.38	mg/Kg	☼	01/18/15 16:30	01/20/15 02:16	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		01/19/15 11:30	01/20/15 09:39	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		01/19/15 11:30	01/20/15 10:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	18	J	19	7.4	ug/Kg	☼	01/15/15 13:00	01/16/15 08:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.95		0.200	0.200	SU			01/19/15 11:21	1

Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90788-1

Qualifiers

GC/MS VOA

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

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.
X	Surrogate is outside control limits
F1	MS and/or MSD Recovery exceeds the control limits
F2	MS/MSD RPD exceeds control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
F1	MS and/or MSD Recovery exceeds the 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.
F2	MS/MSD RPD exceeds control 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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90788-1

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-15

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

Analysis Method	Prep Method	Matrix	Analyte
7470A	7470A	Solid	Mercury
8260B		Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

1

2

3

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11

12

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14

15

TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 60
Phone: 708.534.5200 Fax: 708.534



500-90788 COC

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

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

Chain of Custody Record

Lab Job #: 500-90788
Chain of Custody Number:
Page 1 of 3
Temperature °C of Cooler: 3.2 / 2.8

Client		Client Project #		Preservative		7		7		7		7		7		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		VOCs		SVOCs		Total Metals		TCUP/SPLP Metals		PH		
Project Location/State		Lab PM														
Sampler																
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix										Comments
1		SA-1(0-3)-011415	1/14/15	0830	2	S	X	X	X	X	X					
2		V9-1(0-3)-011415		0850												
3		V9-2(0-3)-011415		0905												
4		V9-3(0-3)-011415		0920												
5		TM-1(0-3)-011415		0940												
6		UC-3(0-3)-011415		1005												
7		UC-4(0-3)-011415		1025												
8		UC-4(0-3)-011415D		1025												
9		RE-1(0-3)-011415		1040												
10		RE-2(0-3)-011415		1055												

Turnaround Time Required (Business Days)

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

Requested Due Date

Sample Disposal

Return to Client

Disposal by Lab

Archive for _____ Months

(A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>Mellon</u>	Company <u>Weston</u>	Date <u>1/14/15</u>	Time <u>1540</u>	Received By <u>TA</u>	Company <u>TA</u>	Date <u>1/14/15</u>	Time <u>1530</u>
Relinquished By <u>TA</u>	Company <u>TA</u>	Date <u>1/14/15</u>	Time <u>1720</u>	Received By <u>Shundee TA-CAT</u>	Company <u>TA-CAT</u>	Date <u>1/15/15</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: S. Babusukumar
Company: Weston
Address: 300 Plaza Circle Ste 202
Address: Mundelein, IL 60060
Phone: (224) 864-7200
Fax:
E-Mail:

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

Chain of Custody Record

Lab Job #: 500-90788

Chain of Custody Number:

Page 2 of 3

Temperature °C of Cooler:

Client		Client Project #		Preservative		7		7		7		7		7		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		7		7		7		7		7		Comments		
Project Location/State		Lab Project #		VOCs		SVOCs		Total Metals		TCUP/SPLP Metals		PH				
Sampler		Lab PM														
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix										
11		RE-3 (0-3) - 011415	1/14/15	1105	2 S		X	X	X	X	X					
12		RE-4 (0-3) - 011415		1125												
13		RE-5 (0-3) - 011415		1135												
14		RE-6 (0-3) - 011415		1145												
15		RE-7 (0-3) - 011415		1200												
16		LC-8 (0-3) - 011415		1300												
17		LC-7 (0-3) - 011415		1310												
18		LC-6 (0-3) - 011415		1320												
19		LC-5 (0-3) - 011415		1340												
20		LC-5 (0-3) - 011415D		1340												

Turnaround Time Required (Business Days)

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

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

Relinquished By: <u>Weston</u> Company: <u>Weston</u> Date: <u>1/14/15</u> Time: <u>1540</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>1/14/15</u> Time: <u>1540</u>
Relinquished By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>1/14/15</u> Time: <u>1720</u>	Received By: <u>[Signature]</u> Company: <u>TA-CRT</u> Date: <u>1/15/15</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:



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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 346: US 41 from IL 21 to West Park Ave Office Phone Number, if available: _____

Physical Site Location (address, including number and street):
35900 block of US 41

City: Warren Township State: IL Zip Code: _____

County: Lake Township: _____

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

Latitude: 42.38452827 Longitude: -87.91985552
(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: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

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

Project Name: FAP 346: US 41 from IL 21 to West Park AveLatitude: 42.38452827 Longitude: -87.91985552Uncontaminated Site Certification**III. Basis for Certification and Attachments**

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

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

LOCATIONS LC-1 THROUGH LC-4 AND LC-6 WERE SAMPLED ADJACENT TO ISGS SITE No. 2668A-12. SEE FIGURES 3-1/3-2 AND TABLE 4-1 OF THE REVISED 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]:

TEST AMERICA ANALYTICAL REPORT - JOB ID: 500-90788-1 AND
TEST AMERICA ANALYTICAL REPORT - JOB ID: 500-90789-1.

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

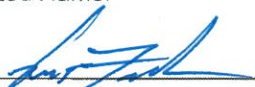
I, Kurt T. Fischer P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the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

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

Company Name: Illinois Department of TransportationStreet Address: 2300 South Dirksen ParkwayCity: Springfield State: IL Zip Code: 62764Phone: 217-785-4246

Kurt T. Fischer P.G. _____

Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

2/9/15

Date:



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

Summary Table of ISGS Site No. 2668A-12
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 346: US Route 41 (Skokie Highway) from IL Route 21 to West Park Avenue
Gurnee, Park City, Waukegan, and North Chicago, Lake County, Illinois

Field Sample ID	LC-1(0-3)-011415	LC-2(0-3)-011415	LC-3(0-3)-011415	LC-4(0-3)-011415	LC-6(0-3)-011415	Soil Reference Concentrations ^A
Sample Date	1/14/2015	1/14/2015	1/14/2015	1/14/2015	1/14/2015	
Location ID	LC-1	LC-2	LC-3	LC-4	LC-6	
Depth	0 - 3	0 - 3	0 - 3	0 - 3	0 - 3	
ISGS Site Number	2668A-12	2668A-12	2668A-12	2668A-12	2668A-12	
Parameter						
Laboratory pH (s.u.)	8.07	8.06	8.15	8.42	8.15	<6.25,>9.0
VOCs (ug/kg)						
Acetone	8.1	27	23	9.7	53	25000
SVOCs (ug/kg)						
Benzo(a)anthracene	ND	ND	7.4 J	8.8 J	ND	900 / 1100 / 1800
Benzo(a)pyrene	ND	ND	7.8 J	7.3 J	ND	90 / 1300 / 2100
Benzo(b)fluoranthene	ND	ND	11 J	12 J	ND	900 / 1500 / 2100
Di-N-Octyl phthalate	ND	ND	ND	ND	84 J	1600000
Fluoranthene	ND	ND	13 J	14 J	ND	3100000
Pyrene	ND	ND	12 J	12 J	ND	2300000
Total Metals (mg/kg)						
Antimony, Total	1.1 R	1.1 R	1.1 R	1.1 R	0.38 J	5
Arsenic, Total	6.4 J	2.9 J	5.9 J	3.2 J	2.5 J	11.3 / 13
Barium, Total	35 J	58 J	82 J	83 J	130 J	1500
Beryllium, Total	0.43 J-	0.68 J-	0.6 J-	0.48 J-	0.89	22
Cadmium, Total	0.055 J	0.062 J	0.1 J	0.056 J	0.21 J-	5.2
Calcium, Total	83000 J	9500 J	27000 J	15000 J	6500 J	---
Chromium, Total	13	17	16	13	24	21
Cobalt, Total	12	11	10	8	8.8 J-	20
Copper, Total	20	13	18	11	17	2900
Iron, Total	15000 J	18000 J	20000 J	15000 J	23000 J-	15000 / 15900
Lead, Total	12 J	13 J	17 J	11 J	15 J-	107
Magnesium, Total	32000 J	6700 J	17000 J	10000 J	6400 J	325000
Manganese, Total	530 J	320 J	470 J	500 J	290 J	630 / 636
Mercury, Total	0.023	0.014 J	0.024	0.015 J	0.033 J	0.89
Nickel, Total	27	22	26	17	19 J-	100
Potassium, Total	1500 J+	820 J+	1200 J+	600 J+	1600 J+	---
Selenium, Total	0.4 J	0.54 J	0.32 J	0.59 J-	0.85 J-	1.3
Sodium, Total	1200 J-	1500 J-	2100 J-	2100 J-	2200 J-	---
Vanadium, Total	14	20	18	15	29	550
Zinc, Total	58	60	62	48	58 J-	5100
TCLP Metals (mg/l)						
Barium, TCLP	0.36 J	0.47 J	0.52	0.44 J	0.48 J	2
Cadmium, TCLP	0.002 J	0.0021 J	0.0022 J	ND	ND	0.005
Cobalt, TCLP	0.014 J	0.018 J	0.02 J	0.021 J	0.021 J	1
Copper, TCLP	0.12	0.052	0.15	0.045 J	0.3	0.65
Iron, TCLP	0.29	0.29	0.27	0.25	0.53	5
Lead, TCLP	ND	ND	0.0089	ND	0.023	0.0075
Manganese, TCLP	6.6	14	9.8	13	17	0.15
Nickel, TCLP	0.014 J	0.013 J	0.013 J	0.012 J	0.012 J	0.1
Zinc, TCLP	0.059 J	0.04 J	0.066 J	0.039 J	0.1	5

Summary Table of ISGS Site No. 2668A-12
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 346: US Route 41 (Skokie Highway) from IL Route 21 to West Park Avenue
Gurnee, Park City, Waukegan, and North Chicago, Lake County, Illinois

Field Sample ID	LC-1(0-3)-011415	LC-2(0-3)-011415	LC-3(0-3)-011415	LC-4(0-3)-011415	LC-6(0-3)-011415	Soil Reference Concentrations ^A
Sample Date	1/14/2015	1/14/2015	1/14/2015	1/14/2015	1/14/2015	
Location ID	LC-1	LC-2	LC-3	LC-4	LC-6	
Depth	0 - 3	0 - 3	0 - 3	0 - 3	0 - 3	
ISGS Site Number	2668A-12	2668A-12	2668A-12	2668A-12	2668A-12	
Parameter						
SPLP Metals (mg/l)						
Arsenic, SPLP	0.027 J	0.03 J	0.053	0.033 J	0.031 J	0.05
Barium, SPLP	0.31 J	0.56	0.87	1.2	1.2	2
Beryllium, SPLP	0.0043 J	0.0054 J	0.0081 J	0.0074 J	0.0072	0.004
Chromium, SPLP	0.091 J	0.14 J	0.19 J	0.21 J	0.22	0.1
Cobalt, SPLP	0.027	0.051	0.07	0.076	0.076	1
Copper, SPLP	0.18	0.22	0.23	0.21	0.18	0.65
Iron, SPLP	84 J+	130 J+	190 J+	210 J+	210 J+	5
Lead, SPLP	0.054	0.08	0.11	0.11	0.14	0.0075
Manganese, SPLP	1.1	1.6	2.2	2.9	2.7	0.15
Nickel, SPLP	0.1	0.14	0.21	0.16	0.17	0.1
Zinc, SPLP	0.31	0.38	0.54	0.51	0.54	5

Notes:

--- - not applicable or value not available.

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

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

J+ - Estimated concentration, biased high.

J- - Estimated concentration, biased low.

R - Rejected; results rejected during validation.

 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: 500-90788-1
Client Project/Site: IDOT - Lake County - WO 001

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

Attn: Mr. S. Babusukumar



Authorized for release by:
1/23/2015 1:15:32 PM

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

LINKS

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results through
TotalAccess

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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
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- 13
- 14
- 15

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90788-1

Client Sample ID: LC-6(0-3)-011415

Lab Sample ID: 500-90788-18

Date Collected: 01/14/15 13:20

Matrix: Solid

Date Received: 01/15/15 07:30

Percent Solids: 81.2

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	53		6.2	2.7	ug/Kg	☼		01/19/15 18:38	1
Benzene	<6.2		6.2	0.84	ug/Kg	☼		01/19/15 18:38	1
Bromodichloromethane	<6.2		6.2	1.1	ug/Kg	☼		01/19/15 18:38	1
Bromoform	<6.2		6.2	1.4	ug/Kg	☼		01/19/15 18:38	1
Bromomethane	<6.2		6.2	1.9	ug/Kg	☼		01/19/15 18:38	1
Carbon disulfide	<6.2		6.2	0.92	ug/Kg	☼		01/19/15 18:38	1
Carbon tetrachloride	<6.2		6.2	1.1	ug/Kg	☼		01/19/15 18:38	1
Chlorobenzene	<6.2		6.2	0.62	ug/Kg	☼		01/19/15 18:38	1
Chloroethane	<6.2		6.2	1.7	ug/Kg	☼		01/19/15 18:38	1
Chloroform	<6.2		6.2	0.71	ug/Kg	☼		01/19/15 18:38	1
Chloromethane	<6.2		6.2	1.3	ug/Kg	☼		01/19/15 18:38	1
cis-1,2-Dichloroethene	<6.2		6.2	0.87	ug/Kg	☼		01/19/15 18:38	1
cis-1,3-Dichloropropene	<6.2		6.2	0.81	ug/Kg	☼		01/19/15 18:38	1
Dibromochloromethane	<6.2		6.2	1.1	ug/Kg	☼		01/19/15 18:38	1
1,1-Dichloroethane	<6.2		6.2	0.97	ug/Kg	☼		01/19/15 18:38	1
1,2-Dichloroethane	<6.2		6.2	0.91	ug/Kg	☼		01/19/15 18:38	1
1,1-Dichloroethene	<6.2		6.2	1.0	ug/Kg	☼		01/19/15 18:38	1
1,2-Dichloropropane	<6.2		6.2	0.93	ug/Kg	☼		01/19/15 18:38	1
1,3-Dichloropropene, Total	<6.2		6.2	0.81	ug/Kg	☼		01/19/15 18:38	1
Ethylbenzene	<6.2		6.2	1.2	ug/Kg	☼		01/19/15 18:38	1
2-Hexanone	<6.2		6.2	1.8	ug/Kg	☼		01/19/15 18:38	1
Methylene Chloride	<6.2		6.2	1.7	ug/Kg	☼		01/19/15 18:38	1
Methyl Ethyl Ketone	<6.2		6.2	2.2	ug/Kg	☼		01/19/15 18:38	1
methyl isobutyl ketone	<6.2		6.2	1.6	ug/Kg	☼		01/19/15 18:38	1
Methyl tert-butyl ether	<6.2		6.2	1.0	ug/Kg	☼		01/19/15 18:38	1
Styrene	<6.2		6.2	0.81	ug/Kg	☼		01/19/15 18:38	1
1,1,1,2-Tetrachloroethane	<6.2		6.2	1.2	ug/Kg	☼		01/19/15 18:38	1
Tetrachloroethene	<6.2		6.2	0.94	ug/Kg	☼		01/19/15 18:38	1
Toluene	<6.2		6.2	0.86	ug/Kg	☼		01/19/15 18:38	1
trans-1,2-Dichloroethene	<6.2		6.2	0.85	ug/Kg	☼		01/19/15 18:38	1
trans-1,3-Dichloropropene	<6.2		6.2	1.1	ug/Kg	☼		01/19/15 18:38	1
1,1,1-Trichloroethane	<6.2		6.2	0.92	ug/Kg	☼		01/19/15 18:38	1
1,1,2-Trichloroethane	<6.2		6.2	0.84	ug/Kg	☼		01/19/15 18:38	1
Trichloroethene	<6.2		6.2	1.0	ug/Kg	☼		01/19/15 18:38	1
Vinyl chloride	<6.2		6.2	1.3	ug/Kg	☼		01/19/15 18:38	1
Xylenes, Total	<12		12	0.56	ug/Kg	☼		01/19/15 18:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 122		01/19/15 18:38	1
Dibromofluoromethane	105		75 - 120		01/19/15 18:38	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134		01/19/15 18:38	1
Toluene-d8 (Surr)	96		75 - 122		01/19/15 18:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<200		200	42	ug/Kg	☼	01/15/15 16:05	01/20/15 23:46	1
1,2-Dichlorobenzene	<200		200	47	ug/Kg	☼	01/15/15 16:05	01/20/15 23:46	1
1,3-Dichlorobenzene	<200		200	44	ug/Kg	☼	01/15/15 16:05	01/20/15 23:46	1
1,4-Dichlorobenzene	<200		200	50	ug/Kg	☼	01/15/15 16:05	01/20/15 23:46	1
2,2'-oxybis[1-chloropropane]	<200		200	45	ug/Kg	☼	01/15/15 16:05	01/20/15 23:46	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90788-1

Client Sample ID: LC-6(0-3)-011415

Lab Sample ID: 500-90788-18

Date Collected: 01/14/15 13:20

Matrix: Solid

Date Received: 01/15/15 07:30

Percent Solids: 81.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<390		390	90	ug/Kg	*	01/15/15 16:05	01/20/15 23:46	1
2,4,6-Trichlorophenol	<390		390	130	ug/Kg	*	01/15/15 16:05	01/20/15 23:46	1
2,4-Dichlorophenol	<390		390	93	ug/Kg	*	01/15/15 16:05	01/20/15 23:46	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	*	01/15/15 16:05	01/20/15 23:46	1
2,4-Dinitrophenol	<790		790	690	ug/Kg	*	01/15/15 16:05	01/20/15 23:46	1
2,4-Dinitrotoluene	<200		200	62	ug/Kg	*	01/15/15 16:05	01/20/15 23:46	1
2,6-Dinitrotoluene	<200		200	77	ug/Kg	*	01/15/15 16:05	01/20/15 23:46	1
2-Chloronaphthalene	<200		200	43	ug/Kg	*	01/15/15 16:05	01/20/15 23:46	1
2-Chlorophenol	<200		200	67	ug/Kg	*	01/15/15 16:05	01/20/15 23:46	1
2-Methylnaphthalene	<39		39	7.2	ug/Kg	*	01/15/15 16:05	01/20/15 23:46	1
2-Methylphenol	<200		200	63	ug/Kg	*	01/15/15 16:05	01/20/15 23:46	1
2-Nitroaniline	<200		200	53	ug/Kg	*	01/15/15 16:05	01/20/15 23:46	1
2-Nitrophenol	<390		390	93	ug/Kg	*	01/15/15 16:05	01/20/15 23:46	1
3 & 4 Methylphenol	<200		200	65	ug/Kg	*	01/15/15 16:05	01/20/15 23:46	1
3,3'-Dichlorobenzidine	<200		200	55	ug/Kg	*	01/15/15 16:05	01/20/15 23:46	1
3-Nitroaniline	<390		390	120	ug/Kg	*	01/15/15 16:05	01/20/15 23:46	1
4,6-Dinitro-2-methylphenol	<390		390	320	ug/Kg	*	01/15/15 16:05	01/20/15 23:46	1
4-Bromophenyl phenyl ether	<200		200	52	ug/Kg	*	01/15/15 16:05	01/20/15 23:46	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	*	01/15/15 16:05	01/20/15 23:46	1
4-Chloroaniline	<790		790	180	ug/Kg	*	01/15/15 16:05	01/20/15 23:46	1
4-Chlorophenyl phenyl ether	<200		200	46	ug/Kg	*	01/15/15 16:05	01/20/15 23:46	1
4-Nitroaniline	<390		390	160	ug/Kg	*	01/15/15 16:05	01/20/15 23:46	1
4-Nitrophenol	<790		790	370	ug/Kg	*	01/15/15 16:05	01/20/15 23:46	1
Acenaphthene	<39		39	7.1	ug/Kg	*	01/15/15 16:05	01/20/15 23:46	1
Acenaphthylene	<39		39	5.2	ug/Kg	*	01/15/15 16:05	01/20/15 23:46	1
Anthracene	<39		39	6.6	ug/Kg	*	01/15/15 16:05	01/20/15 23:46	1
Benzo[a]anthracene	<39		39	5.3	ug/Kg	*	01/15/15 16:05	01/20/15 23:46	1
Benzo[a]pyrene	<39		39	7.6	ug/Kg	*	01/15/15 16:05	01/20/15 23:46	1
Benzo[b]fluoranthene	<39		39	8.5	ug/Kg	*	01/15/15 16:05	01/20/15 23:46	1
Benzo[g,h,i]perylene	<39		39	13	ug/Kg	*	01/15/15 16:05	01/20/15 23:46	1
Benzo[k]fluoranthene	<39		39	12	ug/Kg	*	01/15/15 16:05	01/20/15 23:46	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	*	01/15/15 16:05	01/20/15 23:46	1
Bis(2-chloroethyl)ether	<200		200	59	ug/Kg	*	01/15/15 16:05	01/20/15 23:46	1
Bis(2-ethylhexyl) phthalate	<200		200	72	ug/Kg	*	01/15/15 16:05	01/20/15 23:46	1
Butyl benzyl phthalate	<200		200	75	ug/Kg	*	01/15/15 16:05	01/20/15 23:46	1
Carbazole	<200		200	100	ug/Kg	*	01/15/15 16:05	01/20/15 23:46	1
Chrysene	<39		39	11	ug/Kg	*	01/15/15 16:05	01/20/15 23:46	1
Dibenz(a,h)anthracene	<39		39	7.6	ug/Kg	*	01/15/15 16:05	01/20/15 23:46	1
Dibenzofuran	<200		200	46	ug/Kg	*	01/15/15 16:05	01/20/15 23:46	1
Diethyl phthalate	<200		200	67	ug/Kg	*	01/15/15 16:05	01/20/15 23:46	1
Dimethyl phthalate	<200		200	51	ug/Kg	*	01/15/15 16:05	01/20/15 23:46	1
Di-n-butyl phthalate	<200		200	60	ug/Kg	*	01/15/15 16:05	01/20/15 23:46	1
Di-n-octyl phthalate	84	J	200	64	ug/Kg	*	01/15/15 16:05	01/20/15 23:46	1
Fluoranthene	<39		39	7.3	ug/Kg	*	01/15/15 16:05	01/20/15 23:46	1
Fluorene	<39		39	5.5	ug/Kg	*	01/15/15 16:05	01/20/15 23:46	1
Hexachlorobenzene	<79		79	9.1	ug/Kg	*	01/15/15 16:05	01/20/15 23:46	1
Hexachlorobutadiene	<200		200	62	ug/Kg	*	01/15/15 16:05	01/20/15 23:46	1
Hexachlorocyclopentadiene	<790		790	230	ug/Kg	*	01/15/15 16:05	01/20/15 23:46	1
Hexachloroethane	<200		200	60	ug/Kg	*	01/15/15 16:05	01/20/15 23:46	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90788-1

Client Sample ID: LC-6(0-3)-011415

Lab Sample ID: 500-90788-18

Date Collected: 01/14/15 13:20

Matrix: Solid

Date Received: 01/15/15 07:30

Percent Solids: 81.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<39		39	10	ug/Kg	☼	01/15/15 16:05	01/20/15 23:46	1
Isophorone	<200		200	44	ug/Kg	☼	01/15/15 16:05	01/20/15 23:46	1
Naphthalene	<39		39	6.0	ug/Kg	☼	01/15/15 16:05	01/20/15 23:46	1
Nitrobenzene	<39		39	9.8	ug/Kg	☼	01/15/15 16:05	01/20/15 23:46	1
N-Nitrosodi-n-propylamine	<200		200	48	ug/Kg	☼	01/15/15 16:05	01/20/15 23:46	1
N-Nitrosodiphenylamine	<200		200	46	ug/Kg	☼	01/15/15 16:05	01/20/15 23:46	1
Pentachlorophenol	<790		790	630	ug/Kg	☼	01/15/15 16:05	01/20/15 23:46	1
Phenanthrene	<39		39	5.5	ug/Kg	☼	01/15/15 16:05	01/20/15 23:46	1
Phenol	<200		200	87	ug/Kg	☼	01/15/15 16:05	01/20/15 23:46	1
Pyrene	<39		39	7.8	ug/Kg	☼	01/15/15 16:05	01/20/15 23:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>2,4,6-Tribromophenol</i>	62		35 - 137				01/15/15 16:05	01/20/15 23:46	1
<i>2-Fluorobiphenyl</i>	37		25 - 119				01/15/15 16:05	01/20/15 23:46	1
<i>2-Fluorophenol</i>	46		25 - 110				01/15/15 16:05	01/20/15 23:46	1
<i>Nitrobenzene-d5</i>	38		25 - 115				01/15/15 16:05	01/20/15 23:46	1
<i>Phenol-d5</i>	42		31 - 110				01/15/15 16:05	01/20/15 23:46	1
<i>Terphenyl-d14</i>	64		36 - 134				01/15/15 16:05	01/20/15 23:46	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		01/19/15 08:00	01/20/15 01:00	1
Barium	0.48	J	0.50	0.050	mg/L		01/19/15 08:00	01/20/15 01:00	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/19/15 08:00	01/20/15 01:00	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/19/15 08:00	01/20/15 01:00	1
Chromium	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/20/15 01:00	1
Cobalt	0.021	J	0.025	0.010	mg/L		01/19/15 08:00	01/20/15 01:00	1
Copper	0.30		0.025	0.010	mg/L		01/19/15 08:00	01/20/15 01:00	1
Iron	0.53		0.20	0.20	mg/L		01/19/15 08:00	01/20/15 01:00	1
Lead	0.023		0.0075	0.0075	mg/L		01/19/15 08:00	01/20/15 01:00	1
Manganese	17		0.025	0.010	mg/L		01/19/15 08:00	01/20/15 01:00	1
Nickel	0.012	J	0.025	0.010	mg/L		01/19/15 08:00	01/20/15 01:00	1
Selenium	<0.050		0.050	0.020	mg/L		01/19/15 08:00	01/20/15 01:00	1
Silver	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/20/15 01:00	1
Zinc	0.10		0.10	0.020	mg/L		01/19/15 08:00	01/20/15 01:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.031	J	0.050	0.010	mg/L		01/20/15 08:00	01/20/15 23:58	1
Barium	1.2		0.50	0.050	mg/L		01/20/15 08:00	01/20/15 23:58	1
Beryllium	0.0072		0.0040	0.0040	mg/L		01/20/15 08:00	01/20/15 23:58	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/20/15 08:00	01/20/15 23:58	1
Chromium	0.22		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 23:58	1
Cobalt	0.076		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 23:58	1
Copper	0.18		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 23:58	1
Iron	210		0.20	0.20	mg/L		01/20/15 08:00	01/20/15 23:58	1
Lead	0.14		0.0075	0.0075	mg/L		01/20/15 08:00	01/20/15 23:58	1
Manganese	2.7		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 23:58	1
Nickel	0.17		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 23:58	1
Selenium	<0.050		0.050	0.020	mg/L		01/20/15 08:00	01/22/15 12:39	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90788-1

Client Sample ID: LC-6(0-3)-011415

Lab Sample ID: 500-90788-18

Date Collected: 01/14/15 13:20

Matrix: Solid

Date Received: 01/15/15 07:30

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		01/20/15 08:00	01/20/15 23:58	1
Zinc	0.54		0.10	0.020	mg/L		01/20/15 08:00	01/20/15 23:58	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.38	J	1.1	0.23	mg/Kg	☼	01/18/15 16:30	01/20/15 03:52	1
Arsenic	2.5		0.56	0.26	mg/Kg	☼	01/18/15 16:30	01/20/15 03:52	1
Barium	130		0.56	0.10	mg/Kg	☼	01/18/15 16:30	01/20/15 03:52	1
Beryllium	0.89		0.22	0.049	mg/Kg	☼	01/18/15 16:30	01/20/15 03:52	1
Cadmium	0.21		0.11	0.032	mg/Kg	☼	01/18/15 16:30	01/20/15 03:52	1
Calcium	6500		11	3.6	mg/Kg	☼	01/18/15 16:30	01/20/15 03:52	1
Chromium	24		0.56	0.097	mg/Kg	☼	01/18/15 16:30	01/20/15 03:52	1
Cobalt	8.8		0.28	0.063	mg/Kg	☼	01/18/15 16:30	01/20/15 03:52	1
Copper	17		0.56	0.12	mg/Kg	☼	01/18/15 16:30	01/20/15 03:52	1
Iron	23000		11	4.3	mg/Kg	☼	01/18/15 16:30	01/20/15 03:52	1
Lead	15		0.28	0.14	mg/Kg	☼	01/18/15 16:30	01/20/15 03:52	1
Magnesium	6400		5.6	2.3	mg/Kg	☼	01/18/15 16:30	01/20/15 03:52	1
Manganese	290		0.56	0.11	mg/Kg	☼	01/18/15 16:30	01/20/15 03:52	1
Nickel	19		0.56	0.15	mg/Kg	☼	01/18/15 16:30	01/20/15 03:52	1
Potassium	1600		28	4.6	mg/Kg	☼	01/18/15 16:30	01/20/15 03:52	1
Selenium	0.85		0.56	0.28	mg/Kg	☼	01/18/15 16:30	01/20/15 03:52	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	01/18/15 16:30	01/20/15 03:52	1
Sodium	2200		56	7.4	mg/Kg	☼	01/18/15 16:30	01/20/15 03:52	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	01/18/15 16:30	01/20/15 03:52	1
Vanadium	29		0.28	0.082	mg/Kg	☼	01/18/15 16:30	01/20/15 03:52	1
Zinc	58	B	1.1	0.36	mg/Kg	☼	01/18/15 16:30	01/20/15 03:52	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		01/19/15 11:30	01/20/15 10:16	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		01/19/15 11:30	01/20/15 11:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	33		20	7.8	ug/Kg	☼	01/15/15 13:00	01/16/15 09:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.15		0.200	0.200	SU			01/19/15 12:17	1

Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90788-1

Qualifiers

GC/MS VOA

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

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.
X	Surrogate is outside control limits
F1	MS and/or MSD Recovery exceeds the control limits
F2	MS/MSD RPD exceeds control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
F1	MS and/or MSD Recovery exceeds the 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.
F2	MS/MSD RPD exceeds control 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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90788-1

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-15

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

Analysis Method	Prep Method	Matrix	Analyte
7470A	7470A	Solid	Mercury
8260B		Solid	1,3-Dichloropropene, Total
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



500-90788 COC

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

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

Chain of Custody Record

Lab Job #: 500-90788
Chain of Custody Number:
Page 1 of 3
Temperature °C of Cooler: 3.2 / 2.8

Client		Client Project #		Preservative		7		7		7		7		7		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		VOCs		SVOCs		Total Metals		TCUP/SPLP Metals		PH		
Project Location/State		Lab PM														
Sampler																
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix										Comments
1		SA-1(0-3)-011415	1/14/15	0830	2	S	X	X	X	X	X					
2		V9-1(0-3)-011415		0850												
3		V9-2(0-3)-011415		0905												
4		V9-3(0-3)-011415		0920												
5		TM-1(0-3)-011415		0940												
6		UC-3(0-3)-011415		1005												
7		UC-4(0-3)-011415		1025												
8		UC-4(0-3)-011415D		1025												
9		RE-1(0-3)-011415		1040												
10		RE-2(0-3)-011415		1055												

Turnaround Time Required (Business Days)

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

Requested Due Date

Sample Disposal

Return to Client

Disposal by Lab

Archive for _____ Months

(A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>M. Strow</u>	Company <u>Weston</u>	Date <u>1/14/15</u>	Time <u>1540</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>1/14/15</u>	Time <u>1530</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>1/14/15</u>	Time <u>1720</u>	Received By <u>[Signature]</u>	Company <u>TA-CAT</u>	Date <u>1/15/15</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: S. Babusukumar
Company: Weston
Address: 300 Plaza Circle Ste 202
Address: Mundelein, IL 60060
Phone: (224) 864-7200
Fax:
E-Mail:

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

Chain of Custody Record

Lab Job #: 500-90788

Chain of Custody Number: _____

Page 2 of 3

Temperature °C of Cooler: _____

Client		Client Project #		Preservative		7		7		7		7		7		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		7		7		7		7		7		Comments		
Project Location/State		Lab Project #		VOCs		SVOCs		Total Metals		TCUP/SPLP Metals		PH				
Sampler		Lab PM														
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix										
11		RE-3 (0-3) - 011415	1/14/15	1105	2 S		X	X	X	X	X					
12		RE-4 (0-3) - 011415		1125												
13		RE-5 (0-3) - 011415		1135												
14		RE-6 (0-3) - 011415		1145												
15		RE-7 (0-3) - 011415		1200												
16		LC-8 (0-3) - 011415		1300												
17		LC-7 (0-3) - 011415		1310												
18		LC-6 (0-3) - 011415		1320												
19		LC-5 (0-3) - 011415		1340												
20		LC-5 (0-3) - 011415D		1340												

Turnaround Time Required (Business Days)

___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days ___ Standard ___ 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>Weston</u> Company: <u>Weston</u> Date: <u>1/14/15</u> Time: <u>1540</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>1/14/15</u> Time: <u>1540</u>
Relinquished By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>1/14/15</u> Time: <u>1720</u>	Received By: <u>[Signature]</u> Company: <u>TA-CRT</u> Date: <u>1/15/15</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: 500-90789-1
Client Project/Site: IDOT - Lake County - WO 001

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

Attn: Mr. S. Babusukumar



Authorized for release by:
1/22/2015 3:50:34 PM

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

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www.testamericainc.com

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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 - Lake County - WO 001

TestAmerica Job ID: 500-90789-1

Client Sample ID: LC-4(0-3)-011415

Lab Sample ID: 500-90789-1

Date Collected: 01/14/15 13:50

Matrix: Solid

Date Received: 01/15/15 07:30

Percent Solids: 87.1

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	9.7		5.7	2.5	ug/Kg	☼		01/15/15 17:56	1
Benzene	<5.7		5.7	0.79	ug/Kg	☼		01/15/15 17:56	1
Bromodichloromethane	<5.7		5.7	0.99	ug/Kg	☼		01/15/15 17:56	1
Bromoform	<5.7		5.7	1.3	ug/Kg	☼		01/15/15 17:56	1
Bromomethane	<5.7		5.7	1.7	ug/Kg	☼		01/15/15 17:56	1
Carbon disulfide	<5.7		5.7	0.86	ug/Kg	☼		01/15/15 17:56	1
Carbon tetrachloride	<5.7		5.7	1.0	ug/Kg	☼		01/15/15 17:56	1
Chlorobenzene	<5.7		5.7	0.58	ug/Kg	☼		01/15/15 17:56	1
Chloroethane	<5.7		5.7	1.6	ug/Kg	☼		01/15/15 17:56	1
Chloroform	<5.7		5.7	0.66	ug/Kg	☼		01/15/15 17:56	1
Chloromethane	<5.7		5.7	1.2	ug/Kg	☼		01/15/15 17:56	1
cis-1,2-Dichloroethene	<5.7		5.7	0.81	ug/Kg	☼		01/15/15 17:56	1
cis-1,3-Dichloropropene	<5.7		5.7	0.75	ug/Kg	☼		01/15/15 17:56	1
Dibromochloromethane	<5.7		5.7	1.0	ug/Kg	☼		01/15/15 17:56	1
1,1-Dichloroethane	<5.7		5.7	0.91	ug/Kg	☼		01/15/15 17:56	1
1,2-Dichloroethane	<5.7		5.7	0.85	ug/Kg	☼		01/15/15 17:56	1
1,1-Dichloroethene	<5.7		5.7	0.93	ug/Kg	☼		01/15/15 17:56	1
1,2-Dichloropropane	<5.7		5.7	0.87	ug/Kg	☼		01/15/15 17:56	1
1,3-Dichloropropene, Total	<5.7		5.7	0.75	ug/Kg	☼		01/15/15 17:56	1
Ethylbenzene	<5.7		5.7	1.2	ug/Kg	☼		01/15/15 17:56	1
2-Hexanone	<5.7		5.7	1.7	ug/Kg	☼		01/15/15 17:56	1
Methylene Chloride	<5.7		5.7	1.6	ug/Kg	☼		01/15/15 17:56	1
Methyl Ethyl Ketone	<5.7		5.7	2.1	ug/Kg	☼		01/15/15 17:56	1
methyl isobutyl ketone	<5.7		5.7	1.5	ug/Kg	☼		01/15/15 17:56	1
Methyl tert-butyl ether	<5.7		5.7	0.95	ug/Kg	☼		01/15/15 17:56	1
Styrene	<5.7		5.7	0.75	ug/Kg	☼		01/15/15 17:56	1
1,1,2,2-Tetrachloroethane	<5.7		5.7	1.2	ug/Kg	☼		01/15/15 17:56	1
Tetrachloroethene	<5.7		5.7	0.88	ug/Kg	☼		01/15/15 17:56	1
Toluene	<5.7		5.7	0.80	ug/Kg	☼		01/15/15 17:56	1
trans-1,2-Dichloroethene	<5.7		5.7	0.79	ug/Kg	☼		01/15/15 17:56	1
trans-1,3-Dichloropropene	<5.7		5.7	1.0	ug/Kg	☼		01/15/15 17:56	1
1,1,1-Trichloroethane	<5.7		5.7	0.86	ug/Kg	☼		01/15/15 17:56	1
1,1,2-Trichloroethane	<5.7		5.7	0.78	ug/Kg	☼		01/15/15 17:56	1
Trichloroethene	<5.7		5.7	0.95	ug/Kg	☼		01/15/15 17:56	1
Vinyl chloride	<5.7		5.7	1.2	ug/Kg	☼		01/15/15 17:56	1
Xylenes, Total	<11		11	0.52	ug/Kg	☼		01/15/15 17:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 122		01/15/15 17:56	1
Dibromofluoromethane	104		75 - 120		01/15/15 17:56	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 134		01/15/15 17:56	1
Toluene-d8 (Surr)	99		75 - 122		01/15/15 17:56	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	☼	01/15/15 17:32	01/20/15 20:09	1
1,2-Dichlorobenzene	<180		180	43	ug/Kg	☼	01/15/15 17:32	01/20/15 20:09	1
1,3-Dichlorobenzene	<180		180	40	ug/Kg	☼	01/15/15 17:32	01/20/15 20:09	1
1,4-Dichlorobenzene	<180		180	46	ug/Kg	☼	01/15/15 17:32	01/20/15 20:09	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	01/15/15 17:32	01/20/15 20:09	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90789-1

Client Sample ID: LC-4(0-3)-011415

Lab Sample ID: 500-90789-1

Date Collected: 01/14/15 13:50

Matrix: Solid

Date Received: 01/15/15 07:30

Percent Solids: 87.1

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	☼	01/15/15 17:32	01/20/15 20:09	1
2,4,6-Trichlorophenol	<360		360	120	ug/Kg	☼	01/15/15 17:32	01/20/15 20:09	1
2,4-Dichlorophenol	<360		360	85	ug/Kg	☼	01/15/15 17:32	01/20/15 20:09	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	01/15/15 17:32	01/20/15 20:09	1
2,4-Dinitrophenol	<720		720	630	ug/Kg	☼	01/15/15 17:32	01/20/15 20:09	1
2,4-Dinitrotoluene	<180		180	57	ug/Kg	☼	01/15/15 17:32	01/20/15 20:09	1
2,6-Dinitrotoluene	<180		180	71	ug/Kg	☼	01/15/15 17:32	01/20/15 20:09	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	01/15/15 17:32	01/20/15 20:09	1
2-Chlorophenol	<180		180	61	ug/Kg	☼	01/15/15 17:32	01/20/15 20:09	1
2-Methylnaphthalene	<36		36	6.6	ug/Kg	☼	01/15/15 17:32	01/20/15 20:09	1
2-Methylphenol	<180		180	58	ug/Kg	☼	01/15/15 17:32	01/20/15 20:09	1
2-Nitroaniline	<180		180	48	ug/Kg	☼	01/15/15 17:32	01/20/15 20:09	1
2-Nitrophenol	<360		360	85	ug/Kg	☼	01/15/15 17:32	01/20/15 20:09	1
3 & 4 Methylphenol	<180		180	60	ug/Kg	☼	01/15/15 17:32	01/20/15 20:09	1
3,3'-Dichlorobenzidine	<180		180	50	ug/Kg	☼	01/15/15 17:32	01/20/15 20:09	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	01/15/15 17:32	01/20/15 20:09	1
4,6-Dinitro-2-methylphenol	<360		360	290	ug/Kg	☼	01/15/15 17:32	01/20/15 20:09	1
4-Bromophenyl phenyl ether	<180		180	47	ug/Kg	☼	01/15/15 17:32	01/20/15 20:09	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	01/15/15 17:32	01/20/15 20:09	1
4-Chloroaniline	<720		720	170	ug/Kg	☼	01/15/15 17:32	01/20/15 20:09	1
4-Chlorophenyl phenyl ether	<180		180	42	ug/Kg	☼	01/15/15 17:32	01/20/15 20:09	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	01/15/15 17:32	01/20/15 20:09	1
4-Nitrophenol	<720		720	340	ug/Kg	☼	01/15/15 17:32	01/20/15 20:09	1
Acenaphthene	<36		36	6.5	ug/Kg	☼	01/15/15 17:32	01/20/15 20:09	1
Acenaphthylene	<36		36	4.7	ug/Kg	☼	01/15/15 17:32	01/20/15 20:09	1
Anthracene	<36		36	6.0	ug/Kg	☼	01/15/15 17:32	01/20/15 20:09	1
Benzo[a]anthracene	8.8	J	36	4.8	ug/Kg	☼	01/15/15 17:32	01/20/15 20:09	1
Benzo[a]pyrene	7.3	J	36	7.0	ug/Kg	☼	01/15/15 17:32	01/20/15 20:09	1
Benzo[b]fluoranthene	12	J	36	7.8	ug/Kg	☼	01/15/15 17:32	01/20/15 20:09	1
Benzo[g,h,i]perylene	<36		36	12	ug/Kg	☼	01/15/15 17:32	01/20/15 20:09	1
Benzo[k]fluoranthene	<36		36	11	ug/Kg	☼	01/15/15 17:32	01/20/15 20:09	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	01/15/15 17:32	01/20/15 20:09	1
Bis(2-chloroethyl)ether	<180		180	54	ug/Kg	☼	01/15/15 17:32	01/20/15 20:09	1
Bis(2-ethylhexyl) phthalate	<180		180	66	ug/Kg	☼	01/15/15 17:32	01/20/15 20:09	1
Butyl benzyl phthalate	<180		180	68	ug/Kg	☼	01/15/15 17:32	01/20/15 20:09	1
Carbazole	<180		180	93	ug/Kg	☼	01/15/15 17:32	01/20/15 20:09	1
Chrysene	<36		36	9.8	ug/Kg	☼	01/15/15 17:32	01/20/15 20:09	1
Dibenz(a,h)anthracene	<36		36	6.9	ug/Kg	☼	01/15/15 17:32	01/20/15 20:09	1
Dibenzofuran	<180		180	42	ug/Kg	☼	01/15/15 17:32	01/20/15 20:09	1
Diethyl phthalate	<180		180	61	ug/Kg	☼	01/15/15 17:32	01/20/15 20:09	1
Dimethyl phthalate	<180		180	47	ug/Kg	☼	01/15/15 17:32	01/20/15 20:09	1
Di-n-butyl phthalate	<180		180	55	ug/Kg	☼	01/15/15 17:32	01/20/15 20:09	1
Di-n-octyl phthalate	<180		180	59	ug/Kg	☼	01/15/15 17:32	01/20/15 20:09	1
Fluoranthene	14	J	36	6.7	ug/Kg	☼	01/15/15 17:32	01/20/15 20:09	1
Fluorene	<36		36	5.1	ug/Kg	☼	01/15/15 17:32	01/20/15 20:09	1
Hexachlorobenzene	<72		72	8.3	ug/Kg	☼	01/15/15 17:32	01/20/15 20:09	1
Hexachlorobutadiene	<180		180	56	ug/Kg	☼	01/15/15 17:32	01/20/15 20:09	1
Hexachlorocyclopentadiene	<720	*	720	210	ug/Kg	☼	01/15/15 17:32	01/20/15 20:09	1
Hexachloroethane	<180		180	55	ug/Kg	☼	01/15/15 17:32	01/20/15 20:09	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90789-1

Client Sample ID: LC-4(0-3)-011415

Lab Sample ID: 500-90789-1

Date Collected: 01/14/15 13:50

Matrix: Solid

Date Received: 01/15/15 07:30

Percent Solids: 87.1

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	<36		36	9.3	ug/Kg	☼	01/15/15 17:32	01/20/15 20:09	1
Isophorone	<180		180	40	ug/Kg	☼	01/15/15 17:32	01/20/15 20:09	1
Naphthalene	<36		36	5.5	ug/Kg	☼	01/15/15 17:32	01/20/15 20:09	1
Nitrobenzene	<36		36	9.0	ug/Kg	☼	01/15/15 17:32	01/20/15 20:09	1
N-Nitrosodi-n-propylamine	<180		180	44	ug/Kg	☼	01/15/15 17:32	01/20/15 20:09	1
N-Nitrosodiphenylamine	<180		180	42	ug/Kg	☼	01/15/15 17:32	01/20/15 20:09	1
Pentachlorophenol	<720		720	580	ug/Kg	☼	01/15/15 17:32	01/20/15 20:09	1
Phenanthrene	<36		36	5.0	ug/Kg	☼	01/15/15 17:32	01/20/15 20:09	1
Phenol	<180		180	80	ug/Kg	☼	01/15/15 17:32	01/20/15 20:09	1
Pyrene	12	J	36	7.1	ug/Kg	☼	01/15/15 17:32	01/20/15 20:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	83		35 - 137	01/15/15 17:32	01/20/15 20:09	1
2-Fluorobiphenyl	67		25 - 119	01/15/15 17:32	01/20/15 20:09	1
2-Fluorophenol	61		25 - 110	01/15/15 17:32	01/20/15 20:09	1
Nitrobenzene-d5	54		25 - 115	01/15/15 17:32	01/20/15 20:09	1
Phenol-d5	67		31 - 110	01/15/15 17:32	01/20/15 20:09	1
Terphenyl-d14	102		36 - 134	01/15/15 17:32	01/20/15 20:09	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/19/15 08:00	01/19/15 20:37	1
Barium	0.44	J	0.50	0.050	mg/L		01/19/15 08:00	01/19/15 20:37	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/19/15 08:00	01/19/15 20:37	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/19/15 08:00	01/19/15 20:37	1
Chromium	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/19/15 20:37	1
Cobalt	0.021	J	0.025	0.010	mg/L		01/19/15 08:00	01/19/15 20:37	1
Copper	0.045		0.025	0.010	mg/L		01/19/15 08:00	01/19/15 20:37	1
Iron	0.25		0.20	0.20	mg/L		01/19/15 08:00	01/19/15 20:37	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/19/15 08:00	01/19/15 20:37	1
Manganese	13		0.025	0.010	mg/L		01/19/15 08:00	01/19/15 20:37	1
Nickel	0.012	J	0.025	0.010	mg/L		01/19/15 08:00	01/19/15 20:37	1
Selenium	<0.050		0.050	0.020	mg/L		01/19/15 08:00	01/19/15 20:37	1
Silver	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/19/15 20:37	1
Zinc	0.039	J ^	0.10	0.020	mg/L		01/19/15 08:00	01/19/15 20:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.033	J	0.050	0.010	mg/L		01/20/15 08:00	01/20/15 21:10	1
Barium	1.2		0.50	0.050	mg/L		01/20/15 08:00	01/20/15 21:10	1
Beryllium	0.0074		0.0040	0.0040	mg/L		01/20/15 08:00	01/20/15 21:10	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/20/15 08:00	01/20/15 21:10	1
Chromium	0.21		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 21:10	1
Cobalt	0.076		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 21:10	1
Copper	0.21		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 21:10	1
Iron	210		0.20	0.20	mg/L		01/20/15 08:00	01/20/15 21:10	1
Lead	0.11		0.0075	0.0075	mg/L		01/20/15 08:00	01/20/15 21:10	1
Manganese	2.9		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 21:10	1
Nickel	0.16		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 21:10	1
Selenium	<0.050		0.050	0.020	mg/L		01/20/15 08:00	01/20/15 21:10	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90789-1

Client Sample ID: LC-4(0-3)-011415

Lab Sample ID: 500-90789-1

Date Collected: 01/14/15 13:50

Matrix: Solid

Date Received: 01/15/15 07:30

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		01/20/15 08:00	01/20/15 21:10	1
Zinc	0.51		0.10	0.020	mg/L		01/20/15 08:00	01/20/15 21:10	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	01/16/15 10:10	01/17/15 18:46	1
Arsenic	3.2		0.55	0.26	mg/Kg	☼	01/16/15 10:10	01/17/15 18:46	1
Barium	83		0.55	0.10	mg/Kg	☼	01/16/15 10:10	01/17/15 18:46	1
Beryllium	0.48		0.22	0.048	mg/Kg	☼	01/16/15 10:10	01/17/15 18:46	1
Cadmium	0.056	J	0.11	0.032	mg/Kg	☼	01/16/15 10:10	01/17/15 18:46	1
Calcium	15000		11	3.6	mg/Kg	☼	01/16/15 10:10	01/17/15 18:46	1
Chromium	13		0.55	0.095	mg/Kg	☼	01/16/15 10:10	01/17/15 18:46	1
Cobalt	8.0		0.28	0.063	mg/Kg	☼	01/16/15 10:10	01/17/15 18:46	1
Copper	11		0.55	0.12	mg/Kg	☼	01/16/15 10:10	01/17/15 18:46	1
Iron	15000		11	4.3	mg/Kg	☼	01/16/15 10:10	01/17/15 18:46	1
Lead	11		0.28	0.14	mg/Kg	☼	01/16/15 10:10	01/17/15 18:46	1
Magnesium	10000		5.5	2.2	mg/Kg	☼	01/16/15 10:10	01/17/15 18:46	1
Manganese	500		0.55	0.11	mg/Kg	☼	01/16/15 10:10	01/17/15 18:46	1
Nickel	17		0.55	0.15	mg/Kg	☼	01/16/15 10:10	01/17/15 18:46	1
Potassium	600		28	4.5	mg/Kg	☼	01/16/15 10:10	01/17/15 18:46	1
Selenium	0.59		0.55	0.27	mg/Kg	☼	01/16/15 10:10	01/19/15 14:32	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	01/16/15 10:10	01/17/15 18:46	1
Sodium	2100	B	55	7.3	mg/Kg	☼	01/16/15 10:10	01/17/15 18:46	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	01/16/15 10:10	01/17/15 18:46	1
Vanadium	15		0.28	0.081	mg/Kg	☼	01/16/15 10:10	01/17/15 18:46	1
Zinc	48		1.1	0.35	mg/Kg	☼	01/16/15 10:10	01/17/15 18:46	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		01/20/15 11:00	01/21/15 09:11	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		01/20/15 11:00	01/21/15 09:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	15	J	17	6.5	ug/Kg	☼	01/15/15 13:00	01/16/15 09:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.42		0.200	0.200	SU			01/19/15 12:35	1

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90789-1

Client Sample ID: LC-3(0-3)-011415

Lab Sample ID: 500-90789-2

Date Collected: 01/14/15 14:00

Matrix: Solid

Date Received: 01/15/15 07:30

Percent Solids: 83.9

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	23		6.0	2.6	ug/Kg	☼		01/15/15 18:20	1
Benzene	<6.0		6.0	0.82	ug/Kg	☼		01/15/15 18:20	1
Bromodichloromethane	<6.0		6.0	1.0	ug/Kg	☼		01/15/15 18:20	1
Bromoform	<6.0		6.0	1.4	ug/Kg	☼		01/15/15 18:20	1
Bromomethane	<6.0		6.0	1.8	ug/Kg	☼		01/15/15 18:20	1
Carbon disulfide	<6.0		6.0	0.89	ug/Kg	☼		01/15/15 18:20	1
Carbon tetrachloride	<6.0		6.0	1.1	ug/Kg	☼		01/15/15 18:20	1
Chlorobenzene	<6.0		6.0	0.60	ug/Kg	☼		01/15/15 18:20	1
Chloroethane	<6.0		6.0	1.6	ug/Kg	☼		01/15/15 18:20	1
Chloroform	<6.0		6.0	0.69	ug/Kg	☼		01/15/15 18:20	1
Chloromethane	<6.0		6.0	1.3	ug/Kg	☼		01/15/15 18:20	1
cis-1,2-Dichloroethene	<6.0		6.0	0.84	ug/Kg	☼		01/15/15 18:20	1
cis-1,3-Dichloropropene	<6.0		6.0	0.78	ug/Kg	☼		01/15/15 18:20	1
Dibromochloromethane	<6.0		6.0	1.0	ug/Kg	☼		01/15/15 18:20	1
1,1-Dichloroethane	<6.0		6.0	0.94	ug/Kg	☼		01/15/15 18:20	1
1,2-Dichloroethane	<6.0		6.0	0.88	ug/Kg	☼		01/15/15 18:20	1
1,1-Dichloroethene	<6.0		6.0	0.96	ug/Kg	☼		01/15/15 18:20	1
1,2-Dichloropropane	<6.0		6.0	0.90	ug/Kg	☼		01/15/15 18:20	1
1,3-Dichloropropene, Total	<6.0		6.0	0.78	ug/Kg	☼		01/15/15 18:20	1
Ethylbenzene	<6.0		6.0	1.2	ug/Kg	☼		01/15/15 18:20	1
2-Hexanone	<6.0		6.0	1.7	ug/Kg	☼		01/15/15 18:20	1
Methylene Chloride	<6.0		6.0	1.6	ug/Kg	☼		01/15/15 18:20	1
Methyl Ethyl Ketone	<6.0		6.0	2.2	ug/Kg	☼		01/15/15 18:20	1
methyl isobutyl ketone	<6.0		6.0	1.6	ug/Kg	☼		01/15/15 18:20	1
Methyl tert-butyl ether	<6.0		6.0	0.98	ug/Kg	☼		01/15/15 18:20	1
Styrene	<6.0		6.0	0.78	ug/Kg	☼		01/15/15 18:20	1
1,1,1,2-Tetrachloroethane	<6.0		6.0	1.2	ug/Kg	☼		01/15/15 18:20	1
Tetrachloroethene	<6.0		6.0	0.91	ug/Kg	☼		01/15/15 18:20	1
Toluene	<6.0		6.0	0.83	ug/Kg	☼		01/15/15 18:20	1
trans-1,2-Dichloroethene	<6.0		6.0	0.82	ug/Kg	☼		01/15/15 18:20	1
trans-1,3-Dichloropropene	<6.0		6.0	1.1	ug/Kg	☼		01/15/15 18:20	1
1,1,1-Trichloroethane	<6.0		6.0	0.89	ug/Kg	☼		01/15/15 18:20	1
1,1,2-Trichloroethane	<6.0		6.0	0.81	ug/Kg	☼		01/15/15 18:20	1
Trichloroethene	<6.0		6.0	0.98	ug/Kg	☼		01/15/15 18:20	1
Vinyl chloride	<6.0		6.0	1.3	ug/Kg	☼		01/15/15 18:20	1
Xylenes, Total	<12		12	0.54	ug/Kg	☼		01/15/15 18:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122		01/15/15 18:20	1
Dibromofluoromethane	106		75 - 120		01/15/15 18:20	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134		01/15/15 18:20	1
Toluene-d8 (Surr)	96		75 - 122		01/15/15 18:20	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	☼	01/15/15 17:32	01/20/15 20:31	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	01/15/15 17:32	01/20/15 20:31	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	01/15/15 17:32	01/20/15 20:31	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	01/15/15 17:32	01/20/15 20:31	1
2,2'-oxybis[1-chloropropane]	<190		190	45	ug/Kg	☼	01/15/15 17:32	01/20/15 20:31	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90789-1

Client Sample ID: LC-3(0-3)-011415

Lab Sample ID: 500-90789-2

Date Collected: 01/14/15 14:00

Matrix: Solid

Date Received: 01/15/15 07:30

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	88	ug/Kg	☼	01/15/15 17:32	01/20/15 20:31	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	01/15/15 17:32	01/20/15 20:31	1
2,4-Dichlorophenol	<380		380	91	ug/Kg	☼	01/15/15 17:32	01/20/15 20:31	1
2,4-Dimethylphenol	<380		380	150	ug/Kg	☼	01/15/15 17:32	01/20/15 20:31	1
2,4-Dinitrophenol	<780		780	680	ug/Kg	☼	01/15/15 17:32	01/20/15 20:31	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	01/15/15 17:32	01/20/15 20:31	1
2,6-Dinitrotoluene	<190		190	76	ug/Kg	☼	01/15/15 17:32	01/20/15 20:31	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	01/15/15 17:32	01/20/15 20:31	1
2-Chlorophenol	<190		190	66	ug/Kg	☼	01/15/15 17:32	01/20/15 20:31	1
2-Methylnaphthalene	<38		38	7.1	ug/Kg	☼	01/15/15 17:32	01/20/15 20:31	1
2-Methylphenol	<190		190	62	ug/Kg	☼	01/15/15 17:32	01/20/15 20:31	1
2-Nitroaniline	<190		190	52	ug/Kg	☼	01/15/15 17:32	01/20/15 20:31	1
2-Nitrophenol	<380		380	91	ug/Kg	☼	01/15/15 17:32	01/20/15 20:31	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	☼	01/15/15 17:32	01/20/15 20:31	1
3,3'-Dichlorobenzidine	<190		190	54	ug/Kg	☼	01/15/15 17:32	01/20/15 20:31	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	01/15/15 17:32	01/20/15 20:31	1
4,6-Dinitro-2-methylphenol	<380		380	310	ug/Kg	☼	01/15/15 17:32	01/20/15 20:31	1
4-Bromophenyl phenyl ether	<190		190	51	ug/Kg	☼	01/15/15 17:32	01/20/15 20:31	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	01/15/15 17:32	01/20/15 20:31	1
4-Chloroaniline	<780		780	180	ug/Kg	☼	01/15/15 17:32	01/20/15 20:31	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	01/15/15 17:32	01/20/15 20:31	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	01/15/15 17:32	01/20/15 20:31	1
4-Nitrophenol	<780		780	370	ug/Kg	☼	01/15/15 17:32	01/20/15 20:31	1
Acenaphthene	<38		38	6.9	ug/Kg	☼	01/15/15 17:32	01/20/15 20:31	1
Acenaphthylene	<38		38	5.1	ug/Kg	☼	01/15/15 17:32	01/20/15 20:31	1
Anthracene	<38		38	6.4	ug/Kg	☼	01/15/15 17:32	01/20/15 20:31	1
Benzo[a]anthracene	7.4 J		38	5.2	ug/Kg	☼	01/15/15 17:32	01/20/15 20:31	1
Benzo[a]pyrene	7.8 J		38	7.4	ug/Kg	☼	01/15/15 17:32	01/20/15 20:31	1
Benzo[b]fluoranthene	11 J		38	8.3	ug/Kg	☼	01/15/15 17:32	01/20/15 20:31	1
Benzo[g,h,i]perylene	<38		38	12	ug/Kg	☼	01/15/15 17:32	01/20/15 20:31	1
Benzo[k]fluoranthene	<38		38	11	ug/Kg	☼	01/15/15 17:32	01/20/15 20:31	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	01/15/15 17:32	01/20/15 20:31	1
Bis(2-chloroethyl)ether	<190		190	58	ug/Kg	☼	01/15/15 17:32	01/20/15 20:31	1
Bis(2-ethylhexyl) phthalate	<190		190	70	ug/Kg	☼	01/15/15 17:32	01/20/15 20:31	1
Butyl benzyl phthalate	<190		190	73	ug/Kg	☼	01/15/15 17:32	01/20/15 20:31	1
Carbazole	<190		190	99	ug/Kg	☼	01/15/15 17:32	01/20/15 20:31	1
Chrysene	<38		38	10	ug/Kg	☼	01/15/15 17:32	01/20/15 20:31	1
Dibenz(a,h)anthracene	<38		38	7.4	ug/Kg	☼	01/15/15 17:32	01/20/15 20:31	1
Dibenzofuran	<190		190	45	ug/Kg	☼	01/15/15 17:32	01/20/15 20:31	1
Diethyl phthalate	<190		190	65	ug/Kg	☼	01/15/15 17:32	01/20/15 20:31	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	01/15/15 17:32	01/20/15 20:31	1
Di-n-butyl phthalate	<190		190	59	ug/Kg	☼	01/15/15 17:32	01/20/15 20:31	1
Di-n-octyl phthalate	<190		190	63	ug/Kg	☼	01/15/15 17:32	01/20/15 20:31	1
Fluoranthene	13 J		38	7.1	ug/Kg	☼	01/15/15 17:32	01/20/15 20:31	1
Fluorene	<38		38	5.4	ug/Kg	☼	01/15/15 17:32	01/20/15 20:31	1
Hexachlorobenzene	<78		78	8.9	ug/Kg	☼	01/15/15 17:32	01/20/15 20:31	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	01/15/15 17:32	01/20/15 20:31	1
Hexachlorocyclopentadiene	<780 *		780	220	ug/Kg	☼	01/15/15 17:32	01/20/15 20:31	1
Hexachloroethane	<190		190	58	ug/Kg	☼	01/15/15 17:32	01/20/15 20:31	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90789-1

Client Sample ID: LC-3(0-3)-011415

Lab Sample ID: 500-90789-2

Date Collected: 01/14/15 14:00

Matrix: Solid

Date Received: 01/15/15 07:30

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	<38		38	10	ug/Kg	☼	01/15/15 17:32	01/20/15 20:31	1
Isophorone	<190		190	43	ug/Kg	☼	01/15/15 17:32	01/20/15 20:31	1
Naphthalene	<38		38	5.9	ug/Kg	☼	01/15/15 17:32	01/20/15 20:31	1
Nitrobenzene	<38		38	9.6	ug/Kg	☼	01/15/15 17:32	01/20/15 20:31	1
N-Nitrosodi-n-propylamine	<190		190	47	ug/Kg	☼	01/15/15 17:32	01/20/15 20:31	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	01/15/15 17:32	01/20/15 20:31	1
Pentachlorophenol	<780		780	620	ug/Kg	☼	01/15/15 17:32	01/20/15 20:31	1
Phenanthrene	<38		38	5.4	ug/Kg	☼	01/15/15 17:32	01/20/15 20:31	1
Phenol	<190		190	85	ug/Kg	☼	01/15/15 17:32	01/20/15 20:31	1
Pyrene	12	J	38	7.6	ug/Kg	☼	01/15/15 17:32	01/20/15 20:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	57		35 - 137	01/15/15 17:32	01/20/15 20:31	1
2-Fluorobiphenyl	52		25 - 119	01/15/15 17:32	01/20/15 20:31	1
2-Fluorophenol	52		25 - 110	01/15/15 17:32	01/20/15 20:31	1
Nitrobenzene-d5	47		25 - 115	01/15/15 17:32	01/20/15 20:31	1
Phenol-d5	56		31 - 110	01/15/15 17:32	01/20/15 20:31	1
Terphenyl-d14	74		36 - 134	01/15/15 17:32	01/20/15 20:31	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/19/15 08:00	01/19/15 20:57	1
Barium	0.52		0.50	0.050	mg/L		01/19/15 08:00	01/19/15 20:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/19/15 08:00	01/19/15 20:57	1
Cadmium	0.0022	J	0.0050	0.0020	mg/L		01/19/15 08:00	01/19/15 20:57	1
Chromium	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/19/15 20:57	1
Cobalt	0.020	J	0.025	0.010	mg/L		01/19/15 08:00	01/19/15 20:57	1
Copper	0.15		0.025	0.010	mg/L		01/19/15 08:00	01/19/15 20:57	1
Iron	0.27		0.20	0.20	mg/L		01/19/15 08:00	01/19/15 20:57	1
Lead	0.0089		0.0075	0.0075	mg/L		01/19/15 08:00	01/19/15 20:57	1
Manganese	9.8		0.025	0.010	mg/L		01/19/15 08:00	01/19/15 20:57	1
Nickel	0.013	J	0.025	0.010	mg/L		01/19/15 08:00	01/19/15 20:57	1
Selenium	<0.050		0.050	0.020	mg/L		01/19/15 08:00	01/19/15 20:57	1
Silver	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/19/15 20:57	1
Zinc	0.066	J ^	0.10	0.020	mg/L		01/19/15 08:00	01/19/15 20:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.053		0.050	0.010	mg/L		01/20/15 08:00	01/20/15 21:15	1
Barium	0.87		0.50	0.050	mg/L		01/20/15 08:00	01/20/15 21:15	1
Beryllium	0.0081		0.0040	0.0040	mg/L		01/20/15 08:00	01/20/15 21:15	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/20/15 08:00	01/20/15 21:15	1
Chromium	0.19		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 21:15	1
Cobalt	0.070		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 21:15	1
Copper	0.23		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 21:15	1
Iron	190		0.20	0.20	mg/L		01/20/15 08:00	01/20/15 21:15	1
Lead	0.11		0.038	0.038	mg/L		01/20/15 08:00	01/21/15 12:26	5
Manganese	2.2		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 21:15	1
Nickel	0.21		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 21:15	1
Selenium	<0.050		0.050	0.020	mg/L		01/20/15 08:00	01/20/15 21:15	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90789-1

Client Sample ID: LC-3(0-3)-011415

Lab Sample ID: 500-90789-2

Date Collected: 01/14/15 14:00

Matrix: Solid

Date Received: 01/15/15 07:30

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		01/20/15 08:00	01/20/15 21:15	1
Zinc	0.54		0.10	0.020	mg/L		01/20/15 08:00	01/20/15 21:15	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	01/16/15 10:10	01/17/15 18:59	1
Arsenic	5.9		0.55	0.25	mg/Kg	☼	01/16/15 10:10	01/17/15 18:59	1
Barium	82		0.55	0.10	mg/Kg	☼	01/16/15 10:10	01/17/15 18:59	1
Beryllium	0.60		0.22	0.047	mg/Kg	☼	01/16/15 10:10	01/17/15 18:59	1
Cadmium	0.10	J	0.11	0.032	mg/Kg	☼	01/16/15 10:10	01/17/15 18:59	1
Calcium	27000		11	3.5	mg/Kg	☼	01/16/15 10:10	01/17/15 18:59	1
Chromium	16		0.55	0.094	mg/Kg	☼	01/16/15 10:10	01/17/15 18:59	1
Cobalt	10		0.27	0.062	mg/Kg	☼	01/16/15 10:10	01/17/15 18:59	1
Copper	18		0.55	0.12	mg/Kg	☼	01/16/15 10:10	01/17/15 18:59	1
Iron	20000		11	4.2	mg/Kg	☼	01/16/15 10:10	01/17/15 18:59	1
Lead	17		0.27	0.14	mg/Kg	☼	01/16/15 10:10	01/17/15 18:59	1
Magnesium	17000		5.5	2.2	mg/Kg	☼	01/16/15 10:10	01/17/15 18:59	1
Manganese	470		0.55	0.11	mg/Kg	☼	01/16/15 10:10	01/17/15 18:59	1
Nickel	26		0.55	0.15	mg/Kg	☼	01/16/15 10:10	01/17/15 18:59	1
Potassium	1200		27	4.5	mg/Kg	☼	01/16/15 10:10	01/17/15 18:59	1
Selenium	0.32	J	0.55	0.27	mg/Kg	☼	01/16/15 10:10	01/19/15 14:44	1
Silver	<0.27		0.27	0.064	mg/Kg	☼	01/16/15 10:10	01/17/15 18:59	1
Sodium	2100	B	55	7.2	mg/Kg	☼	01/16/15 10:10	01/17/15 18:59	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	01/16/15 10:10	01/17/15 18:59	1
Vanadium	18		0.27	0.080	mg/Kg	☼	01/16/15 10:10	01/17/15 18:59	1
Zinc	62		1.1	0.35	mg/Kg	☼	01/16/15 10:10	01/17/15 18:59	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		01/20/15 11:00	01/21/15 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		01/20/15 11:00	01/21/15 09:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	24		20	7.7	ug/Kg	☼	01/15/15 13:00	01/16/15 09:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.15		0.200	0.200	SU			01/19/15 12:39	1

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90789-1

Client Sample ID: LC-2(0-3)-011415

Lab Sample ID: 500-90789-3

Date Collected: 01/14/15 14:15

Matrix: Solid

Date Received: 01/15/15 07:30

Percent Solids: 83.4

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	27		6.0	2.6	ug/Kg	☼		01/15/15 18:44	1
Benzene	<6.0		6.0	0.82	ug/Kg	☼		01/15/15 18:44	1
Bromodichloromethane	<6.0		6.0	1.0	ug/Kg	☼		01/15/15 18:44	1
Bromoform	<6.0		6.0	1.4	ug/Kg	☼		01/15/15 18:44	1
Bromomethane	<6.0		6.0	1.8	ug/Kg	☼		01/15/15 18:44	1
Carbon disulfide	<6.0		6.0	0.90	ug/Kg	☼		01/15/15 18:44	1
Carbon tetrachloride	<6.0		6.0	1.1	ug/Kg	☼		01/15/15 18:44	1
Chlorobenzene	<6.0		6.0	0.61	ug/Kg	☼		01/15/15 18:44	1
Chloroethane	<6.0		6.0	1.6	ug/Kg	☼		01/15/15 18:44	1
Chloroform	<6.0		6.0	0.69	ug/Kg	☼		01/15/15 18:44	1
Chloromethane	<6.0		6.0	1.3	ug/Kg	☼		01/15/15 18:44	1
cis-1,2-Dichloroethene	<6.0		6.0	0.85	ug/Kg	☼		01/15/15 18:44	1
cis-1,3-Dichloropropene	<6.0		6.0	0.79	ug/Kg	☼		01/15/15 18:44	1
Dibromochloromethane	<6.0		6.0	1.0	ug/Kg	☼		01/15/15 18:44	1
1,1-Dichloroethane	<6.0		6.0	0.95	ug/Kg	☼		01/15/15 18:44	1
1,2-Dichloroethane	<6.0		6.0	0.89	ug/Kg	☼		01/15/15 18:44	1
1,1-Dichloroethene	<6.0		6.0	0.97	ug/Kg	☼		01/15/15 18:44	1
1,2-Dichloropropane	<6.0		6.0	0.91	ug/Kg	☼		01/15/15 18:44	1
1,3-Dichloropropene, Total	<6.0		6.0	0.79	ug/Kg	☼		01/15/15 18:44	1
Ethylbenzene	<6.0		6.0	1.2	ug/Kg	☼		01/15/15 18:44	1
2-Hexanone	<6.0		6.0	1.7	ug/Kg	☼		01/15/15 18:44	1
Methylene Chloride	<6.0		6.0	1.6	ug/Kg	☼		01/15/15 18:44	1
Methyl Ethyl Ketone	<6.0		6.0	2.2	ug/Kg	☼		01/15/15 18:44	1
methyl isobutyl ketone	<6.0		6.0	1.6	ug/Kg	☼		01/15/15 18:44	1
Methyl tert-butyl ether	<6.0		6.0	0.99	ug/Kg	☼		01/15/15 18:44	1
Styrene	<6.0		6.0	0.79	ug/Kg	☼		01/15/15 18:44	1
1,1,2,2-Tetrachloroethane	<6.0		6.0	1.2	ug/Kg	☼		01/15/15 18:44	1
Tetrachloroethene	<6.0		6.0	0.92	ug/Kg	☼		01/15/15 18:44	1
Toluene	<6.0		6.0	0.84	ug/Kg	☼		01/15/15 18:44	1
trans-1,2-Dichloroethene	<6.0		6.0	0.83	ug/Kg	☼		01/15/15 18:44	1
trans-1,3-Dichloropropene	<6.0		6.0	1.1	ug/Kg	☼		01/15/15 18:44	1
1,1,1-Trichloroethane	<6.0		6.0	0.90	ug/Kg	☼		01/15/15 18:44	1
1,1,2-Trichloroethane	<6.0		6.0	0.82	ug/Kg	☼		01/15/15 18:44	1
Trichloroethene	<6.0		6.0	0.99	ug/Kg	☼		01/15/15 18:44	1
Vinyl chloride	<6.0		6.0	1.3	ug/Kg	☼		01/15/15 18:44	1
Xylenes, Total	<12		12	0.54	ug/Kg	☼		01/15/15 18:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122		01/15/15 18:44	1
Dibromofluoromethane	102		75 - 120		01/15/15 18:44	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134		01/15/15 18:44	1
Toluene-d8 (Surr)	98		75 - 122		01/15/15 18:44	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	42	ug/Kg	☼	01/15/15 17:32	01/20/15 20:54	1
1,2-Dichlorobenzene	<200		200	47	ug/Kg	☼	01/15/15 17:32	01/20/15 20:54	1
1,3-Dichlorobenzene	<200		200	44	ug/Kg	☼	01/15/15 17:32	01/20/15 20:54	1
1,4-Dichlorobenzene	<200		200	50	ug/Kg	☼	01/15/15 17:32	01/20/15 20:54	1
2,2'-oxybis[1-chloropropane]	<200		200	46	ug/Kg	☼	01/15/15 17:32	01/20/15 20:54	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90789-1

Client Sample ID: LC-2(0-3)-011415

Lab Sample ID: 500-90789-3

Date Collected: 01/14/15 14:15

Matrix: Solid

Date Received: 01/15/15 07:30

Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<390		390	90	ug/Kg	☼	01/15/15 17:32	01/20/15 20:54	1
2,4,6-Trichlorophenol	<390		390	130	ug/Kg	☼	01/15/15 17:32	01/20/15 20:54	1
2,4-Dichlorophenol	<390		390	93	ug/Kg	☼	01/15/15 17:32	01/20/15 20:54	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	01/15/15 17:32	01/20/15 20:54	1
2,4-Dinitrophenol	<790		790	690	ug/Kg	☼	01/15/15 17:32	01/20/15 20:54	1
2,4-Dinitrotoluene	<200		200	62	ug/Kg	☼	01/15/15 17:32	01/20/15 20:54	1
2,6-Dinitrotoluene	<200		200	77	ug/Kg	☼	01/15/15 17:32	01/20/15 20:54	1
2-Chloronaphthalene	<200		200	43	ug/Kg	☼	01/15/15 17:32	01/20/15 20:54	1
2-Chlorophenol	<200		200	67	ug/Kg	☼	01/15/15 17:32	01/20/15 20:54	1
2-Methylnaphthalene	<39		39	7.2	ug/Kg	☼	01/15/15 17:32	01/20/15 20:54	1
2-Methylphenol	<200		200	63	ug/Kg	☼	01/15/15 17:32	01/20/15 20:54	1
2-Nitroaniline	<200		200	53	ug/Kg	☼	01/15/15 17:32	01/20/15 20:54	1
2-Nitrophenol	<390		390	93	ug/Kg	☼	01/15/15 17:32	01/20/15 20:54	1
3 & 4 Methylphenol	<200		200	66	ug/Kg	☼	01/15/15 17:32	01/20/15 20:54	1
3,3'-Dichlorobenzidine	<200		200	55	ug/Kg	☼	01/15/15 17:32	01/20/15 20:54	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	01/15/15 17:32	01/20/15 20:54	1
4,6-Dinitro-2-methylphenol	<390		390	320	ug/Kg	☼	01/15/15 17:32	01/20/15 20:54	1
4-Bromophenyl phenyl ether	<200		200	52	ug/Kg	☼	01/15/15 17:32	01/20/15 20:54	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	01/15/15 17:32	01/20/15 20:54	1
4-Chloroaniline	<790		790	180	ug/Kg	☼	01/15/15 17:32	01/20/15 20:54	1
4-Chlorophenyl phenyl ether	<200		200	46	ug/Kg	☼	01/15/15 17:32	01/20/15 20:54	1
4-Nitroaniline	<390		390	160	ug/Kg	☼	01/15/15 17:32	01/20/15 20:54	1
4-Nitrophenol	<790		790	370	ug/Kg	☼	01/15/15 17:32	01/20/15 20:54	1
Acenaphthene	<39		39	7.1	ug/Kg	☼	01/15/15 17:32	01/20/15 20:54	1
Acenaphthylene	<39		39	5.2	ug/Kg	☼	01/15/15 17:32	01/20/15 20:54	1
Anthracene	<39		39	6.6	ug/Kg	☼	01/15/15 17:32	01/20/15 20:54	1
Benzo[a]anthracene	<39		39	5.3	ug/Kg	☼	01/15/15 17:32	01/20/15 20:54	1
Benzo[a]pyrene	<39		39	7.6	ug/Kg	☼	01/15/15 17:32	01/20/15 20:54	1
Benzo[b]fluoranthene	<39		39	8.5	ug/Kg	☼	01/15/15 17:32	01/20/15 20:54	1
Benzo[g,h,i]perylene	<39		39	13	ug/Kg	☼	01/15/15 17:32	01/20/15 20:54	1
Benzo[k]fluoranthene	<39		39	12	ug/Kg	☼	01/15/15 17:32	01/20/15 20:54	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	☼	01/15/15 17:32	01/20/15 20:54	1
Bis(2-chloroethyl)ether	<200		200	59	ug/Kg	☼	01/15/15 17:32	01/20/15 20:54	1
Bis(2-ethylhexyl) phthalate	<200		200	72	ug/Kg	☼	01/15/15 17:32	01/20/15 20:54	1
Butyl benzyl phthalate	<200		200	75	ug/Kg	☼	01/15/15 17:32	01/20/15 20:54	1
Carbazole	<200		200	100	ug/Kg	☼	01/15/15 17:32	01/20/15 20:54	1
Chrysene	<39		39	11	ug/Kg	☼	01/15/15 17:32	01/20/15 20:54	1
Dibenz(a,h)anthracene	<39		39	7.6	ug/Kg	☼	01/15/15 17:32	01/20/15 20:54	1
Dibenzofuran	<200		200	46	ug/Kg	☼	01/15/15 17:32	01/20/15 20:54	1
Diethyl phthalate	<200		200	67	ug/Kg	☼	01/15/15 17:32	01/20/15 20:54	1
Dimethyl phthalate	<200		200	51	ug/Kg	☼	01/15/15 17:32	01/20/15 20:54	1
Di-n-butyl phthalate	<200		200	60	ug/Kg	☼	01/15/15 17:32	01/20/15 20:54	1
Di-n-octyl phthalate	<200		200	64	ug/Kg	☼	01/15/15 17:32	01/20/15 20:54	1
Fluoranthene	<39		39	7.3	ug/Kg	☼	01/15/15 17:32	01/20/15 20:54	1
Fluorene	<39		39	5.5	ug/Kg	☼	01/15/15 17:32	01/20/15 20:54	1
Hexachlorobenzene	<79		79	9.1	ug/Kg	☼	01/15/15 17:32	01/20/15 20:54	1
Hexachlorobutadiene	<200		200	62	ug/Kg	☼	01/15/15 17:32	01/20/15 20:54	1
Hexachlorocyclopentadiene	<790 *		790	230	ug/Kg	☼	01/15/15 17:32	01/20/15 20:54	1
Hexachloroethane	<200		200	60	ug/Kg	☼	01/15/15 17:32	01/20/15 20:54	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90789-1

Client Sample ID: LC-2(0-3)-011415

Lab Sample ID: 500-90789-3

Date Collected: 01/14/15 14:15

Matrix: Solid

Date Received: 01/15/15 07:30

Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<39		39	10	ug/Kg	☼	01/15/15 17:32	01/20/15 20:54	1
Isophorone	<200		200	44	ug/Kg	☼	01/15/15 17:32	01/20/15 20:54	1
Naphthalene	<39		39	6.0	ug/Kg	☼	01/15/15 17:32	01/20/15 20:54	1
Nitrobenzene	<39		39	9.8	ug/Kg	☼	01/15/15 17:32	01/20/15 20:54	1
N-Nitrosodi-n-propylamine	<200		200	48	ug/Kg	☼	01/15/15 17:32	01/20/15 20:54	1
N-Nitrosodiphenylamine	<200		200	46	ug/Kg	☼	01/15/15 17:32	01/20/15 20:54	1
Pentachlorophenol	<790		790	630	ug/Kg	☼	01/15/15 17:32	01/20/15 20:54	1
Phenanthrene	<39		39	5.5	ug/Kg	☼	01/15/15 17:32	01/20/15 20:54	1
Phenol	<200		200	87	ug/Kg	☼	01/15/15 17:32	01/20/15 20:54	1
Pyrene	<39		39	7.8	ug/Kg	☼	01/15/15 17:32	01/20/15 20:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	42		35 - 137				01/15/15 17:32	01/20/15 20:54	1
2-Fluorobiphenyl	44		25 - 119				01/15/15 17:32	01/20/15 20:54	1
2-Fluorophenol	45		25 - 110				01/15/15 17:32	01/20/15 20:54	1
Nitrobenzene-d5	42		25 - 115				01/15/15 17:32	01/20/15 20:54	1
Phenol-d5	47		31 - 110				01/15/15 17:32	01/20/15 20:54	1
Terphenyl-d14	65		36 - 134				01/15/15 17:32	01/20/15 20:54	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		01/19/15 08:00	01/19/15 21:02	1
Barium	0.47	J	0.50	0.050	mg/L		01/19/15 08:00	01/19/15 21:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/19/15 08:00	01/19/15 21:02	1
Cadmium	0.0021	J	0.0050	0.0020	mg/L		01/19/15 08:00	01/19/15 21:02	1
Chromium	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/19/15 21:02	1
Cobalt	0.018	J	0.025	0.010	mg/L		01/19/15 08:00	01/19/15 21:02	1
Copper	0.052		0.025	0.010	mg/L		01/19/15 08:00	01/19/15 21:02	1
Iron	0.29		0.20	0.20	mg/L		01/19/15 08:00	01/19/15 21:02	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/19/15 08:00	01/19/15 21:02	1
Manganese	14		0.025	0.010	mg/L		01/19/15 08:00	01/19/15 21:02	1
Nickel	0.013	J	0.025	0.010	mg/L		01/19/15 08:00	01/19/15 21:02	1
Selenium	<0.050		0.050	0.020	mg/L		01/19/15 08:00	01/19/15 21:02	1
Silver	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/19/15 21:02	1
Zinc	0.040	J ^	0.10	0.020	mg/L		01/19/15 08:00	01/19/15 21:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.030	J	0.050	0.010	mg/L		01/20/15 08:00	01/20/15 21:19	1
Barium	0.56		0.50	0.050	mg/L		01/20/15 08:00	01/20/15 21:19	1
Beryllium	0.0054		0.0040	0.0040	mg/L		01/20/15 08:00	01/20/15 21:19	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/20/15 08:00	01/20/15 21:19	1
Chromium	0.14		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 21:19	1
Cobalt	0.051		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 21:19	1
Copper	0.22		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 21:19	1
Iron	130		0.20	0.20	mg/L		01/20/15 08:00	01/20/15 21:19	1
Lead	0.080		0.038	0.038	mg/L		01/20/15 08:00	01/21/15 12:30	5
Manganese	1.6		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 21:19	1
Nickel	0.14		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 21:19	1
Selenium	<0.050		0.050	0.020	mg/L		01/20/15 08:00	01/20/15 21:19	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90789-1

Client Sample ID: LC-2(0-3)-011415

Lab Sample ID: 500-90789-3

Date Collected: 01/14/15 14:15

Matrix: Solid

Date Received: 01/15/15 07:30

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		01/20/15 08:00	01/20/15 21:19	1
Zinc	0.38		0.10	0.020	mg/L		01/20/15 08:00	01/20/15 21:19	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.24	mg/Kg	☼	01/16/15 10:10	01/17/15 19:04	1
Arsenic	2.9		0.57	0.26	mg/Kg	☼	01/16/15 10:10	01/17/15 19:04	1
Barium	58		0.57	0.10	mg/Kg	☼	01/16/15 10:10	01/17/15 19:04	1
Beryllium	0.68		0.23	0.049	mg/Kg	☼	01/16/15 10:10	01/17/15 19:04	1
Cadmium	0.062	J	0.11	0.033	mg/Kg	☼	01/16/15 10:10	01/17/15 19:04	1
Calcium	9500		11	3.7	mg/Kg	☼	01/16/15 10:10	01/17/15 19:04	1
Chromium	17		0.57	0.098	mg/Kg	☼	01/16/15 10:10	01/17/15 19:04	1
Cobalt	11		0.28	0.064	mg/Kg	☼	01/16/15 10:10	01/17/15 19:04	1
Copper	13		0.57	0.12	mg/Kg	☼	01/16/15 10:10	01/17/15 19:04	1
Iron	18000		11	4.4	mg/Kg	☼	01/16/15 10:10	01/17/15 19:04	1
Lead	13		0.28	0.14	mg/Kg	☼	01/16/15 10:10	01/17/15 19:04	1
Magnesium	6700		5.7	2.3	mg/Kg	☼	01/16/15 10:10	01/17/15 19:04	1
Manganese	320		0.57	0.11	mg/Kg	☼	01/16/15 10:10	01/17/15 19:04	1
Nickel	22		0.57	0.15	mg/Kg	☼	01/16/15 10:10	01/17/15 19:04	1
Potassium	820		28	4.6	mg/Kg	☼	01/16/15 10:10	01/17/15 19:04	1
Selenium	0.54	J	0.57	0.28	mg/Kg	☼	01/16/15 10:10	01/19/15 14:49	1
Silver	<0.28		0.28	0.067	mg/Kg	☼	01/16/15 10:10	01/17/15 19:04	1
Sodium	1500	B	57	7.5	mg/Kg	☼	01/16/15 10:10	01/17/15 19:04	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	01/16/15 10:10	01/17/15 19:04	1
Vanadium	20		0.28	0.083	mg/Kg	☼	01/16/15 10:10	01/17/15 19:04	1
Zinc	60		1.1	0.36	mg/Kg	☼	01/16/15 10:10	01/17/15 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		01/20/15 11:00	01/21/15 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		01/20/15 11:00	01/21/15 09:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	14	J	19	7.3	ug/Kg	☼	01/15/15 13:00	01/16/15 09:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.06		0.200	0.200	SU			01/19/15 12:43	1

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90789-1

Client Sample ID: LC-1(0-3)-011415

Lab Sample ID: 500-90789-4

Date Collected: 01/14/15 14:25

Matrix: Solid

Date Received: 01/15/15 07:30

Percent Solids: 85.4

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	8.1		5.9	2.5	ug/Kg	☼		01/15/15 19:08	1
Benzene	<5.9		5.9	0.80	ug/Kg	☼		01/15/15 19:08	1
Bromodichloromethane	<5.9		5.9	1.0	ug/Kg	☼		01/15/15 19:08	1
Bromoform	<5.9		5.9	1.3	ug/Kg	☼		01/15/15 19:08	1
Bromomethane	<5.9		5.9	1.8	ug/Kg	☼		01/15/15 19:08	1
Carbon disulfide	<5.9		5.9	0.87	ug/Kg	☼		01/15/15 19:08	1
Carbon tetrachloride	<5.9		5.9	1.1	ug/Kg	☼		01/15/15 19:08	1
Chlorobenzene	<5.9		5.9	0.59	ug/Kg	☼		01/15/15 19:08	1
Chloroethane	<5.9		5.9	1.6	ug/Kg	☼		01/15/15 19:08	1
Chloroform	<5.9		5.9	0.67	ug/Kg	☼		01/15/15 19:08	1
Chloromethane	<5.9		5.9	1.2	ug/Kg	☼		01/15/15 19:08	1
cis-1,2-Dichloroethene	<5.9		5.9	0.83	ug/Kg	☼		01/15/15 19:08	1
cis-1,3-Dichloropropene	<5.9		5.9	0.77	ug/Kg	☼		01/15/15 19:08	1
Dibromochloromethane	<5.9		5.9	1.0	ug/Kg	☼		01/15/15 19:08	1
1,1-Dichloroethane	<5.9		5.9	0.93	ug/Kg	☼		01/15/15 19:08	1
1,2-Dichloroethane	<5.9		5.9	0.87	ug/Kg	☼		01/15/15 19:08	1
1,1-Dichloroethene	<5.9		5.9	0.95	ug/Kg	☼		01/15/15 19:08	1
1,2-Dichloropropane	<5.9		5.9	0.89	ug/Kg	☼		01/15/15 19:08	1
1,3-Dichloropropene, Total	<5.9		5.9	0.77	ug/Kg	☼		01/15/15 19:08	1
Ethylbenzene	<5.9		5.9	1.2	ug/Kg	☼		01/15/15 19:08	1
2-Hexanone	<5.9		5.9	1.7	ug/Kg	☼		01/15/15 19:08	1
Methylene Chloride	<5.9		5.9	1.6	ug/Kg	☼		01/15/15 19:08	1
Methyl Ethyl Ketone	<5.9		5.9	2.1	ug/Kg	☼		01/15/15 19:08	1
methyl isobutyl ketone	<5.9		5.9	1.5	ug/Kg	☼		01/15/15 19:08	1
Methyl tert-butyl ether	<5.9		5.9	0.97	ug/Kg	☼		01/15/15 19:08	1
Styrene	<5.9		5.9	0.77	ug/Kg	☼		01/15/15 19:08	1
1,1,1,2-Tetrachloroethane	<5.9		5.9	1.2	ug/Kg	☼		01/15/15 19:08	1
Tetrachloroethene	<5.9		5.9	0.89	ug/Kg	☼		01/15/15 19:08	1
Toluene	<5.9		5.9	0.82	ug/Kg	☼		01/15/15 19:08	1
trans-1,2-Dichloroethene	<5.9		5.9	0.81	ug/Kg	☼		01/15/15 19:08	1
trans-1,3-Dichloropropene	<5.9		5.9	1.0	ug/Kg	☼		01/15/15 19:08	1
1,1,1-Trichloroethane	<5.9		5.9	0.87	ug/Kg	☼		01/15/15 19:08	1
1,1,2-Trichloroethane	<5.9		5.9	0.80	ug/Kg	☼		01/15/15 19:08	1
Trichloroethene	<5.9		5.9	0.97	ug/Kg	☼		01/15/15 19:08	1
Vinyl chloride	<5.9		5.9	1.2	ug/Kg	☼		01/15/15 19:08	1
Xylenes, Total	<12		12	0.53	ug/Kg	☼		01/15/15 19:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122		01/15/15 19:08	1
Dibromofluoromethane	102		75 - 120		01/15/15 19:08	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134		01/15/15 19:08	1
Toluene-d8 (Surr)	100		75 - 122		01/15/15 19:08	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	41	ug/Kg	☼	01/15/15 17:32	01/20/15 21:17	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	01/15/15 17:32	01/20/15 21:17	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	01/15/15 17:32	01/20/15 21:17	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	01/15/15 17:32	01/20/15 21:17	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	01/15/15 17:32	01/20/15 21:17	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90789-1

Client Sample ID: LC-1(0-3)-011415

Lab Sample ID: 500-90789-4

Date Collected: 01/14/15 14:25

Matrix: Solid

Date Received: 01/15/15 07:30

Percent Solids: 85.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<380		380	88	ug/Kg	*	01/15/15 17:32	01/20/15 21:17	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	*	01/15/15 17:32	01/20/15 21:17	1
2,4-Dichlorophenol	<380		380	91	ug/Kg	*	01/15/15 17:32	01/20/15 21:17	1
2,4-Dimethylphenol	<380		380	150	ug/Kg	*	01/15/15 17:32	01/20/15 21:17	1
2,4-Dinitrophenol	<770		770	680	ug/Kg	*	01/15/15 17:32	01/20/15 21:17	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	*	01/15/15 17:32	01/20/15 21:17	1
2,6-Dinitrotoluene	<190		190	75	ug/Kg	*	01/15/15 17:32	01/20/15 21:17	1
2-Chloronaphthalene	<190		190	42	ug/Kg	*	01/15/15 17:32	01/20/15 21:17	1
2-Chlorophenol	<190		190	65	ug/Kg	*	01/15/15 17:32	01/20/15 21:17	1
2-Methylnaphthalene	<38		38	7.1	ug/Kg	*	01/15/15 17:32	01/20/15 21:17	1
2-Methylphenol	<190		190	62	ug/Kg	*	01/15/15 17:32	01/20/15 21:17	1
2-Nitroaniline	<190		190	52	ug/Kg	*	01/15/15 17:32	01/20/15 21:17	1
2-Nitrophenol	<380		380	91	ug/Kg	*	01/15/15 17:32	01/20/15 21:17	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	*	01/15/15 17:32	01/20/15 21:17	1
3,3'-Dichlorobenzidine	<190		190	54	ug/Kg	*	01/15/15 17:32	01/20/15 21:17	1
3-Nitroaniline	<380		380	120	ug/Kg	*	01/15/15 17:32	01/20/15 21:17	1
4,6-Dinitro-2-methylphenol	<380		380	310	ug/Kg	*	01/15/15 17:32	01/20/15 21:17	1
4-Bromophenyl phenyl ether	<190		190	51	ug/Kg	*	01/15/15 17:32	01/20/15 21:17	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	*	01/15/15 17:32	01/20/15 21:17	1
4-Chloroaniline	<770		770	180	ug/Kg	*	01/15/15 17:32	01/20/15 21:17	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	*	01/15/15 17:32	01/20/15 21:17	1
4-Nitroaniline	<380		380	160	ug/Kg	*	01/15/15 17:32	01/20/15 21:17	1
4-Nitrophenol	<770		770	360	ug/Kg	*	01/15/15 17:32	01/20/15 21:17	1
Acenaphthene	<38		38	6.9	ug/Kg	*	01/15/15 17:32	01/20/15 21:17	1
Acenaphthylene	<38		38	5.1	ug/Kg	*	01/15/15 17:32	01/20/15 21:17	1
Anthracene	<38		38	6.4	ug/Kg	*	01/15/15 17:32	01/20/15 21:17	1
Benzo[a]anthracene	<38		38	5.2	ug/Kg	*	01/15/15 17:32	01/20/15 21:17	1
Benzo[a]pyrene	<38		38	7.4	ug/Kg	*	01/15/15 17:32	01/20/15 21:17	1
Benzo[b]fluoranthene	<38		38	8.3	ug/Kg	*	01/15/15 17:32	01/20/15 21:17	1
Benzo[g,h,i]perylene	<38		38	12	ug/Kg	*	01/15/15 17:32	01/20/15 21:17	1
Benzo[k]fluoranthene	<38		38	11	ug/Kg	*	01/15/15 17:32	01/20/15 21:17	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	*	01/15/15 17:32	01/20/15 21:17	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	*	01/15/15 17:32	01/20/15 21:17	1
Bis(2-ethylhexyl) phthalate	<190		190	70	ug/Kg	*	01/15/15 17:32	01/20/15 21:17	1
Butyl benzyl phthalate	<190		190	73	ug/Kg	*	01/15/15 17:32	01/20/15 21:17	1
Carbazole	<190		190	99	ug/Kg	*	01/15/15 17:32	01/20/15 21:17	1
Chrysene	<38		38	10	ug/Kg	*	01/15/15 17:32	01/20/15 21:17	1
Dibenz(a,h)anthracene	<38		38	7.4	ug/Kg	*	01/15/15 17:32	01/20/15 21:17	1
Dibenzofuran	<190		190	45	ug/Kg	*	01/15/15 17:32	01/20/15 21:17	1
Diethyl phthalate	<190		190	65	ug/Kg	*	01/15/15 17:32	01/20/15 21:17	1
Dimethyl phthalate	<190		190	50	ug/Kg	*	01/15/15 17:32	01/20/15 21:17	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	*	01/15/15 17:32	01/20/15 21:17	1
Di-n-octyl phthalate	<190		190	63	ug/Kg	*	01/15/15 17:32	01/20/15 21:17	1
Fluoranthene	<38		38	7.1	ug/Kg	*	01/15/15 17:32	01/20/15 21:17	1
Fluorene	<38		38	5.4	ug/Kg	*	01/15/15 17:32	01/20/15 21:17	1
Hexachlorobenzene	<77		77	8.9	ug/Kg	*	01/15/15 17:32	01/20/15 21:17	1
Hexachlorobutadiene	<190		190	60	ug/Kg	*	01/15/15 17:32	01/20/15 21:17	1
Hexachlorocyclopentadiene	<770 *		770	220	ug/Kg	*	01/15/15 17:32	01/20/15 21:17	1
Hexachloroethane	<190		190	58	ug/Kg	*	01/15/15 17:32	01/20/15 21:17	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90789-1

Client Sample ID: LC-1(0-3)-011415

Lab Sample ID: 500-90789-4

Date Collected: 01/14/15 14:25

Matrix: Solid

Date Received: 01/15/15 07:30

Percent Solids: 85.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<38		38	9.9	ug/Kg	☼	01/15/15 17:32	01/20/15 21:17	1
Isophorone	<190		190	43	ug/Kg	☼	01/15/15 17:32	01/20/15 21:17	1
Naphthalene	<38		38	5.9	ug/Kg	☼	01/15/15 17:32	01/20/15 21:17	1
Nitrobenzene	<38		38	9.6	ug/Kg	☼	01/15/15 17:32	01/20/15 21:17	1
N-Nitrosodi-n-propylamine	<190		190	47	ug/Kg	☼	01/15/15 17:32	01/20/15 21:17	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	01/15/15 17:32	01/20/15 21:17	1
Pentachlorophenol	<770		770	620	ug/Kg	☼	01/15/15 17:32	01/20/15 21:17	1
Phenanthrene	<38		38	5.3	ug/Kg	☼	01/15/15 17:32	01/20/15 21:17	1
Phenol	<190		190	85	ug/Kg	☼	01/15/15 17:32	01/20/15 21:17	1
Pyrene	<38		38	7.6	ug/Kg	☼	01/15/15 17:32	01/20/15 21:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	46		35 - 137				01/15/15 17:32	01/20/15 21:17	1
2-Fluorobiphenyl	43		25 - 119				01/15/15 17:32	01/20/15 21:17	1
2-Fluorophenol	44		25 - 110				01/15/15 17:32	01/20/15 21:17	1
Nitrobenzene-d5	40		25 - 115				01/15/15 17:32	01/20/15 21:17	1
Phenol-d5	44		31 - 110				01/15/15 17:32	01/20/15 21:17	1
Terphenyl-d14	75		36 - 134				01/15/15 17:32	01/20/15 21:17	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		01/19/15 08:00	01/19/15 21:07	1
Barium	0.36	J	0.50	0.050	mg/L		01/19/15 08:00	01/19/15 21:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/19/15 08:00	01/19/15 21:07	1
Cadmium	0.0020	J	0.0050	0.0020	mg/L		01/19/15 08:00	01/19/15 21:07	1
Chromium	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/19/15 21:07	1
Cobalt	0.014	J	0.025	0.010	mg/L		01/19/15 08:00	01/19/15 21:07	1
Copper	0.12		0.025	0.010	mg/L		01/19/15 08:00	01/19/15 21:07	1
Iron	0.29		0.20	0.20	mg/L		01/19/15 08:00	01/19/15 21:07	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/19/15 08:00	01/19/15 21:07	1
Manganese	6.6		0.025	0.010	mg/L		01/19/15 08:00	01/19/15 21:07	1
Nickel	0.014	J	0.025	0.010	mg/L		01/19/15 08:00	01/19/15 21:07	1
Selenium	<0.050		0.050	0.020	mg/L		01/19/15 08:00	01/19/15 21:07	1
Silver	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/19/15 21:07	1
Zinc	0.059	J ^	0.10	0.020	mg/L		01/19/15 08:00	01/19/15 21:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.027	J	0.050	0.010	mg/L		01/20/15 08:00	01/20/15 21:33	1
Barium	0.31	J	0.50	0.050	mg/L		01/20/15 08:00	01/20/15 21:33	1
Beryllium	0.0043		0.0040	0.0040	mg/L		01/20/15 08:00	01/20/15 21:33	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/20/15 08:00	01/20/15 21:33	1
Chromium	0.091		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 21:33	1
Cobalt	0.027		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 21:33	1
Copper	0.18		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 21:33	1
Iron	84		0.20	0.20	mg/L		01/20/15 08:00	01/20/15 21:33	1
Lead	0.054		0.038	0.038	mg/L		01/20/15 08:00	01/21/15 12:34	5
Manganese	1.1		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 21:33	1
Nickel	0.10		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 21:33	1
Selenium	<0.050		0.050	0.020	mg/L		01/20/15 08:00	01/20/15 21:33	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90789-1

Client Sample ID: LC-1(0-3)-011415

Lab Sample ID: 500-90789-4

Date Collected: 01/14/15 14:25

Matrix: Solid

Date Received: 01/15/15 07:30

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		01/20/15 08:00	01/20/15 21:33	1
Zinc	0.31		0.10	0.020	mg/L		01/20/15 08:00	01/20/15 21:33	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	☼	01/16/15 10:10	01/17/15 19:09	1
Arsenic	6.4		0.53	0.25	mg/Kg	☼	01/16/15 10:10	01/17/15 19:09	1
Barium	35		0.53	0.098	mg/Kg	☼	01/16/15 10:10	01/17/15 19:09	1
Beryllium	0.43		0.21	0.046	mg/Kg	☼	01/16/15 10:10	01/17/15 19:09	1
Cadmium	0.055	J	0.11	0.031	mg/Kg	☼	01/16/15 10:10	01/17/15 19:09	1
Calcium	83000		110	34	mg/Kg	☼	01/16/15 10:10	01/19/15 14:59	10
Chromium	13		0.53	0.092	mg/Kg	☼	01/16/15 10:10	01/17/15 19:09	1
Cobalt	12		0.27	0.060	mg/Kg	☼	01/16/15 10:10	01/17/15 19:09	1
Copper	20		0.53	0.12	mg/Kg	☼	01/16/15 10:10	01/17/15 19:09	1
Iron	15000		11	4.1	mg/Kg	☼	01/16/15 10:10	01/17/15 19:09	1
Lead	12		0.27	0.13	mg/Kg	☼	01/16/15 10:10	01/17/15 19:09	1
Magnesium	32000		5.3	2.2	mg/Kg	☼	01/16/15 10:10	01/17/15 19:09	1
Manganese	530		0.53	0.11	mg/Kg	☼	01/16/15 10:10	01/17/15 19:09	1
Nickel	27		0.53	0.14	mg/Kg	☼	01/16/15 10:10	01/17/15 19:09	1
Potassium	1500		27	4.4	mg/Kg	☼	01/16/15 10:10	01/17/15 19:09	1
Selenium	0.40	J	0.53	0.26	mg/Kg	☼	01/16/15 10:10	01/19/15 14:54	1
Silver	<0.27		0.27	0.062	mg/Kg	☼	01/16/15 10:10	01/17/15 19:09	1
Sodium	1200	B	53	7.0	mg/Kg	☼	01/16/15 10:10	01/17/15 19:09	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	01/16/15 10:10	01/17/15 19:09	1
Vanadium	14		0.27	0.078	mg/Kg	☼	01/16/15 10:10	01/17/15 19:09	1
Zinc	58		1.1	0.34	mg/Kg	☼	01/16/15 10:10	01/17/15 19:09	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		01/20/15 11:00	01/21/15 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		01/20/15 11:00	01/21/15 09:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	23		19	7.3	ug/Kg	☼	01/15/15 13:00	01/16/15 09:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.07		0.200	0.200	SU			01/19/15 12:48	1

Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90789-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits

GC/MS Semi VOA

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

Metals

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90789-1

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-15

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

Analysis Method	Prep Method	Matrix	Analyte
7470A	7470A	Solid	Mercury
8260B		Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

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TestAmerica

THE LEADER IN ENVIRONMENTAL

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



500-90789 COC

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

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

Chain of Custody Record

Lab Job #: 500-90789
 Chain of Custody Number: _____
 Page 3 of 3
 Temperature °C of Cooler: 3, 2, 2, 8

Client		Client Project #		Preservative		Parameter		Matrix		Comments	
Weston				7	7	7	7	7			
Project Name		Lab Project #		Date		Time		Matrix		Preservative Key	
IDOT 001											
Project Location/State		Lab Project #		Date		Time		Matrix		Preservative Key	
IL											
Sampler		Lab PM		Date		Time		Matrix		Preservative Key	
M. Straw		D. Wright									
Lab ID	MIS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs	SVOCs	Total Metals	TCUP/SPLP Metals	pH
1		LC-4 (0-3)-011415	1/14/15	1350	2	S	X	X	X	X	X
2		LC-3 (0-3)-011415		1400							
3		LC-2 (0-3)-011415		1415							
4		LC-1 (0-3)-011415		1425							
5		UC-2 (0-3)-011415		1440							
6		UC-1 (0-3)-011415		1455							
7		UC-1 (0-3)-011415D		1455							
8		FP-7 (0-3)-011415		1510							
9		FP-6 (0-3)-011415		1525							

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

Turnaround Time Required (Business Days)

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

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>M. Straw</u>	Company <u>Weston</u>	Date <u>1/14/15</u>	Time <u>1540</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>1/14/15</u>	Time <u>1540</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>1/14/15</u>	Time <u>1720</u>	Received By <u>[Signature]</u>	Company <u>TA-CHE</u>	Date <u>1/15/15</u>	Time <u>0730</u>

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: _____



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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 346: US 41 from IL 21 to West Park Ave Office Phone Number, if available: _____

Physical Site Location (address, including number and street):
35730 US 41

City: Warren Township State: IL Zip Code: _____

County: Lake Township: _____

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

Latitude: 42.38202712 Longitude: -87.91829721
(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: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

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

Project Name: FAP 346: US 41 from IL 21 to West Park Ave

Latitude: 42.38202712 Longitude: -87.91829721

Uncontaminated Site Certification

III. Basis for Certification and Attachments

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

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

LOCATIONS RE-2, RE-6, AND RE-7 WERE SAMPLED ADJACENT TO ISGS SITE No. 2668A-13. SEE FIGURE 3-2 AND TABLE 4-1 OF THE REVISED 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]:

TEST AMERICA ANALYTICAL REPORT - JOB ID: 500-90788-1

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

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

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

Company Name: Illinois Department of Transportation

Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Kurt T. Fischer P.G.

Printed Name:



2/9/15

Date:

Licensed Professional Engineer or
Licensed Professional Geologist Signature:



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

Summary Table of ISGS Site No. 2668A-13
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 346: US Route 41 (Skokie Highway) from IL Route 21 to West Park Avenue
Gurnee, Park City, Waukegan, and North Chicago, Lake County, Illinois

Field Sample ID	RE-2(0-3)-011415	RE-6(0-3)-011415	RE-7(0-3)-011415	Soil Reference Concentrations ^A
Sample Date	1/14/2015	1/14/2015	1/14/2015	
Location ID	RE-2	RE-6	RE-7	
Depth	0 - 3	0 - 3	0 - 3	
ISGS Site Number	2668A-13	2668A-13	2668A-13	
Parameter				
Laboratory pH (s.u.)	8.52	7.85	8.76	<6.25,>9.0
VOCs (ug/kg)				
Acetone	13	140	70	25000
Methyl ethyl ketone	ND	16	8.1	---
SVOCs (ug/kg)				
Benzo(a)anthracene	8.6 J	31 J	ND	900 / 1100 / 1800
Benzo(a)pyrene	10 J	40	ND	90 / 1300 / 2100
Benzo(b)fluoranthene	14 J	65	17 J	900 / 1500 / 2100
Benzo(g,h,i)perylene	ND	43	17 J	---
Benzo(k)fluoranthene	ND	27 J	ND	9000
Chrysene	ND	52	20 J	88000
Dibenzo(a,h)anthracene	ND	23 J	ND	90 / 200 / 420
Di-N-Octyl phthalate	ND	330	ND	1600000
Fluoranthene	15 J	68	13 J	3100000
Indeno(1,2,3-cd)pyrene	12 J	43	ND	900 / 900 / 1600
Phenanthrene	ND	28 J	15 J	---
Pyrene	14 J	63	28 J	2300000
Total Metals (mg/kg)				
Antimony, Total	0.37 J	0.3 J	0.33 J	5
Arsenic, Total	2.9 J	6.1 J	3.6 J	11.3 / 13
Barium, Total	190 J	150 J	87 J	1500
Beryllium, Total	0.89	0.84	0.76	22
Cadmium, Total	0.28 J-	0.26 J-	0.21 J-	5.2
Calcium, Total	5400 J	9000 J	8100 J	---
Chromium, Total	24	24	21	21
Cobalt, Total	8.9 J-	11 J-	8.5 J-	20
Copper, Total	13	16	16	2900
Iron, Total	25000 J-	27000 J-	22000 J-	15000 / 15900
Lead, Total	15 J-	21 J-	13 J-	107
Magnesium, Total	4900 J	8000 J	6200 J	325000
Manganese, Total	330 J	610 J	340 J	630 / 636
Mercury, Total	0.034 J	0.039 J	0.029 J	0.89
Nickel, Total	18 J-	22 J-	19 J-	100
Potassium, Total	1400 J+	1700 J+	1500 J+	---
Selenium, Total	1.2 J-	1.1 J-	1.1 J-	1.3
Sodium, Total	2800 J-	2400 J-	28000 J-	---
Thallium, Total	ND	0.68 J-	ND	2.6
Vanadium, Total	32	32	26	550
Zinc, Total	55 J-	54 J-	51 J-	5100
TCLP Metals (mg/l)				
Barium, TCLP	0.25 J	0.63	0.34 J	2
Cobalt, TCLP	ND	0.026	0.012 J	1
Copper, TCLP	0.086	0.095	0.067	0.65
Iron, TCLP	ND	1.2	0.25	5
Lead, TCLP	ND	0.018	ND	0.0075
Manganese, TCLP	3.9	19	5.6	0.15
Nickel, TCLP	ND	0.018 J	ND	0.1
Zinc, TCLP	0.053 J	0.082 J	0.039 J	5
SPLP Metals (mg/l)				
Arsenic, SPLP	0.027 J	0.024 J	0.037 J	0.05
Barium, SPLP	0.91	0.76	0.72	2
Beryllium, SPLP	0.0076	0.0049	0.0069	0.004
Chromium, SPLP	0.23	0.14	0.19	0.1
Cobalt, SPLP	0.051	0.045	0.064	1
Copper, SPLP	0.12	0.099	0.42	0.65
Iron, SPLP	200 J+	140 J+	180 J+	5
Lead, SPLP	0.12	0.11	0.15	0.0075
Manganese, SPLP	1.1	0.87	1.6	0.15
Nickel, SPLP	0.15	0.098	0.16	0.1
Zinc, SPLP	0.52	0.31	0.62	5

Summary Table of ISGS Site No. 2668A-13
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 346: US Route 41 (Skokie Highway) from IL Route 21 to West Park Avenue
Gurnee, Park City, Waukegan, and North Chicago, Lake County, Illinois

Notes:

--- - not applicable or value not available.


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

ND - Constituent not detected above the reporting limit.

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: 500-90788-1
Client Project/Site: IDOT - Lake County - WO 001

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

Attn: Mr. S. Babusukumar



Authorized for release by:
1/23/2015 1:15:32 PM

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 - Lake County - WO 001

TestAmerica Job ID: 500-90788-1

Client Sample ID: RE-2(0-3)-011415

Lab Sample ID: 500-90788-10

Date Collected: 01/14/15 10:55

Matrix: Solid

Date Received: 01/15/15 07:30

Percent Solids: 79.6

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	13		6.3	2.7	ug/Kg	☼		01/19/15 15:18	1
Benzene	<6.3		6.3	0.86	ug/Kg	☼		01/19/15 15:18	1
Bromodichloromethane	<6.3		6.3	1.1	ug/Kg	☼		01/19/15 15:18	1
Bromoform	<6.3		6.3	1.4	ug/Kg	☼		01/19/15 15:18	1
Bromomethane	<6.3		6.3	1.9	ug/Kg	☼		01/19/15 15:18	1
Carbon disulfide	<6.3		6.3	0.94	ug/Kg	☼		01/19/15 15:18	1
Carbon tetrachloride	<6.3		6.3	1.1	ug/Kg	☼		01/19/15 15:18	1
Chlorobenzene	<6.3		6.3	0.64	ug/Kg	☼		01/19/15 15:18	1
Chloroethane	<6.3		6.3	1.7	ug/Kg	☼		01/19/15 15:18	1
Chloroform	<6.3		6.3	0.72	ug/Kg	☼		01/19/15 15:18	1
Chloromethane	<6.3		6.3	1.3	ug/Kg	☼		01/19/15 15:18	1
cis-1,2-Dichloroethene	<6.3		6.3	0.89	ug/Kg	☼		01/19/15 15:18	1
cis-1,3-Dichloropropene	<6.3		6.3	0.82	ug/Kg	☼		01/19/15 15:18	1
Dibromochloromethane	<6.3		6.3	1.1	ug/Kg	☼		01/19/15 15:18	1
1,1-Dichloroethane	<6.3		6.3	0.99	ug/Kg	☼		01/19/15 15:18	1
1,2-Dichloroethane	<6.3		6.3	0.93	ug/Kg	☼		01/19/15 15:18	1
1,1,1-Dichloroethene	<6.3		6.3	1.0	ug/Kg	☼		01/19/15 15:18	1
1,2-Dichloropropane	<6.3		6.3	0.95	ug/Kg	☼		01/19/15 15:18	1
1,3-Dichloropropene, Total	<6.3		6.3	0.82	ug/Kg	☼		01/19/15 15:18	1
Ethylbenzene	<6.3		6.3	1.3	ug/Kg	☼		01/19/15 15:18	1
2-Hexanone	<6.3		6.3	1.8	ug/Kg	☼		01/19/15 15:18	1
Methylene Chloride	<6.3		6.3	1.7	ug/Kg	☼		01/19/15 15:18	1
Methyl Ethyl Ketone	<6.3		6.3	2.3	ug/Kg	☼		01/19/15 15:18	1
methyl isobutyl ketone	<6.3		6.3	1.6	ug/Kg	☼		01/19/15 15:18	1
Methyl tert-butyl ether	<6.3		6.3	1.0	ug/Kg	☼		01/19/15 15:18	1
Styrene	<6.3		6.3	0.82	ug/Kg	☼		01/19/15 15:18	1
1,1,1,2-Tetrachloroethane	<6.3		6.3	1.3	ug/Kg	☼		01/19/15 15:18	1
Tetrachloroethene	<6.3		6.3	0.96	ug/Kg	☼		01/19/15 15:18	1
Toluene	<6.3		6.3	0.88	ug/Kg	☼		01/19/15 15:18	1
trans-1,2-Dichloroethene	<6.3		6.3	0.86	ug/Kg	☼		01/19/15 15:18	1
trans-1,3-Dichloropropene	<6.3		6.3	1.1	ug/Kg	☼		01/19/15 15:18	1
1,1,1-Trichloroethane	<6.3		6.3	0.94	ug/Kg	☼		01/19/15 15:18	1
1,1,2-Trichloroethane	<6.3		6.3	0.86	ug/Kg	☼		01/19/15 15:18	1
Trichloroethene	<6.3		6.3	1.0	ug/Kg	☼		01/19/15 15:18	1
Vinyl chloride	<6.3		6.3	1.3	ug/Kg	☼		01/19/15 15:18	1
Xylenes, Total	<13		13	0.57	ug/Kg	☼		01/19/15 15:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 122		01/19/15 15:18	1
Dibromofluoromethane	102		75 - 120		01/19/15 15:18	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134		01/19/15 15:18	1
Toluene-d8 (Surr)	97		75 - 122		01/19/15 15:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<200		200	43	ug/Kg	☼	01/15/15 16:05	01/20/15 22:04	1
1,2-Dichlorobenzene	<200		200	47	ug/Kg	☼	01/15/15 16:05	01/20/15 22:04	1
1,3-Dichlorobenzene	<200		200	45	ug/Kg	☼	01/15/15 16:05	01/20/15 22:04	1
1,4-Dichlorobenzene	<200		200	51	ug/Kg	☼	01/15/15 16:05	01/20/15 22:04	1
2,2'-oxybis[1-chloropropane]	<200		200	46	ug/Kg	☼	01/15/15 16:05	01/20/15 22:04	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90788-1

Client Sample ID: RE-2(0-3)-011415

Lab Sample ID: 500-90788-10

Date Collected: 01/14/15 10:55

Matrix: Solid

Date Received: 01/15/15 07:30

Percent Solids: 79.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<390		390	91	ug/Kg	☼	01/15/15 16:05	01/20/15 22:04	1
2,4,6-Trichlorophenol	<390		390	140	ug/Kg	☼	01/15/15 16:05	01/20/15 22:04	1
2,4-Dichlorophenol	<390		390	94	ug/Kg	☼	01/15/15 16:05	01/20/15 22:04	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	01/15/15 16:05	01/20/15 22:04	1
2,4-Dinitrophenol	<800		800	700	ug/Kg	☼	01/15/15 16:05	01/20/15 22:04	1
2,4-Dinitrotoluene	<200		200	63	ug/Kg	☼	01/15/15 16:05	01/20/15 22:04	1
2,6-Dinitrotoluene	<200		200	78	ug/Kg	☼	01/15/15 16:05	01/20/15 22:04	1
2-Chloronaphthalene	<200		200	44	ug/Kg	☼	01/15/15 16:05	01/20/15 22:04	1
2-Chlorophenol	<200		200	68	ug/Kg	☼	01/15/15 16:05	01/20/15 22:04	1
2-Methylnaphthalene	<39		39	7.3	ug/Kg	☼	01/15/15 16:05	01/20/15 22:04	1
2-Methylphenol	<200		200	64	ug/Kg	☼	01/15/15 16:05	01/20/15 22:04	1
2-Nitroaniline	<200		200	53	ug/Kg	☼	01/15/15 16:05	01/20/15 22:04	1
2-Nitrophenol	<390		390	94	ug/Kg	☼	01/15/15 16:05	01/20/15 22:04	1
3 & 4 Methylphenol	<200		200	66	ug/Kg	☼	01/15/15 16:05	01/20/15 22:04	1
3,3'-Dichlorobenzidine	<200		200	56	ug/Kg	☼	01/15/15 16:05	01/20/15 22:04	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	01/15/15 16:05	01/20/15 22:04	1
4,6-Dinitro-2-methylphenol	<390		390	320	ug/Kg	☼	01/15/15 16:05	01/20/15 22:04	1
4-Bromophenyl phenyl ether	<200		200	52	ug/Kg	☼	01/15/15 16:05	01/20/15 22:04	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	01/15/15 16:05	01/20/15 22:04	1
4-Chloroaniline	<800		800	190	ug/Kg	☼	01/15/15 16:05	01/20/15 22:04	1
4-Chlorophenyl phenyl ether	<200		200	46	ug/Kg	☼	01/15/15 16:05	01/20/15 22:04	1
4-Nitroaniline	<390		390	170	ug/Kg	☼	01/15/15 16:05	01/20/15 22:04	1
4-Nitrophenol	<800		800	380	ug/Kg	☼	01/15/15 16:05	01/20/15 22:04	1
Acenaphthene	<39		39	7.1	ug/Kg	☼	01/15/15 16:05	01/20/15 22:04	1
Acenaphthylene	<39		39	5.2	ug/Kg	☼	01/15/15 16:05	01/20/15 22:04	1
Anthracene	<39		39	6.6	ug/Kg	☼	01/15/15 16:05	01/20/15 22:04	1
Benzo[a]anthracene	8.6 J		39	5.3	ug/Kg	☼	01/15/15 16:05	01/20/15 22:04	1
Benzo[a]pyrene	10 J		39	7.7	ug/Kg	☼	01/15/15 16:05	01/20/15 22:04	1
Benzo[b]fluoranthene	14 J		39	8.6	ug/Kg	☼	01/15/15 16:05	01/20/15 22:04	1
Benzo[g,h,i]perylene	<39		39	13	ug/Kg	☼	01/15/15 16:05	01/20/15 22:04	1
Benzo[k]fluoranthene	<39		39	12	ug/Kg	☼	01/15/15 16:05	01/20/15 22:04	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	☼	01/15/15 16:05	01/20/15 22:04	1
Bis(2-chloroethyl)ether	<200		200	59	ug/Kg	☼	01/15/15 16:05	01/20/15 22:04	1
Bis(2-ethylhexyl) phthalate	<200		200	73	ug/Kg	☼	01/15/15 16:05	01/20/15 22:04	1
Butyl benzyl phthalate	<200		200	75	ug/Kg	☼	01/15/15 16:05	01/20/15 22:04	1
Carbazole	<200		200	100	ug/Kg	☼	01/15/15 16:05	01/20/15 22:04	1
Chrysene	<39		39	11	ug/Kg	☼	01/15/15 16:05	01/20/15 22:04	1
Dibenz(a,h)anthracene	<39		39	7.7	ug/Kg	☼	01/15/15 16:05	01/20/15 22:04	1
Dibenzofuran	<200		200	46	ug/Kg	☼	01/15/15 16:05	01/20/15 22:04	1
Diethyl phthalate	<200		200	67	ug/Kg	☼	01/15/15 16:05	01/20/15 22:04	1
Dimethyl phthalate	<200		200	52	ug/Kg	☼	01/15/15 16:05	01/20/15 22:04	1
Di-n-butyl phthalate	<200		200	60	ug/Kg	☼	01/15/15 16:05	01/20/15 22:04	1
Di-n-octyl phthalate	<200		200	65	ug/Kg	☼	01/15/15 16:05	01/20/15 22:04	1
Fluoranthene	15 J		39	7.4	ug/Kg	☼	01/15/15 16:05	01/20/15 22:04	1
Fluorene	<39		39	5.6	ug/Kg	☼	01/15/15 16:05	01/20/15 22:04	1
Hexachlorobenzene	<80		80	9.2	ug/Kg	☼	01/15/15 16:05	01/20/15 22:04	1
Hexachlorobutadiene	<200		200	62	ug/Kg	☼	01/15/15 16:05	01/20/15 22:04	1
Hexachlorocyclopentadiene	<800		800	230	ug/Kg	☼	01/15/15 16:05	01/20/15 22:04	1
Hexachloroethane	<200		200	60	ug/Kg	☼	01/15/15 16:05	01/20/15 22:04	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90788-1

Client Sample ID: RE-2(0-3)-011415

Lab Sample ID: 500-90788-10

Date Collected: 01/14/15 10:55

Matrix: Solid

Date Received: 01/15/15 07:30

Percent Solids: 79.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	12	J	39	10	ug/Kg	☼	01/15/15 16:05	01/20/15 22:04	1
Isophorone	<200		200	45	ug/Kg	☼	01/15/15 16:05	01/20/15 22:04	1
Naphthalene	<39		39	6.1	ug/Kg	☼	01/15/15 16:05	01/20/15 22:04	1
Nitrobenzene	<39		39	9.9	ug/Kg	☼	01/15/15 16:05	01/20/15 22:04	1
N-Nitrosodi-n-propylamine	<200		200	48	ug/Kg	☼	01/15/15 16:05	01/20/15 22:04	1
N-Nitrosodiphenylamine	<200		200	47	ug/Kg	☼	01/15/15 16:05	01/20/15 22:04	1
Pentachlorophenol	<800		800	640	ug/Kg	☼	01/15/15 16:05	01/20/15 22:04	1
Phenanthrene	<39		39	5.5	ug/Kg	☼	01/15/15 16:05	01/20/15 22:04	1
Phenol	<200		200	88	ug/Kg	☼	01/15/15 16:05	01/20/15 22:04	1
Pyrene	14	J	39	7.9	ug/Kg	☼	01/15/15 16:05	01/20/15 22:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>2,4,6-Tribromophenol</i>	52		35 - 137				01/15/15 16:05	01/20/15 22:04	1
<i>2-Fluorobiphenyl</i>	27		25 - 119				01/15/15 16:05	01/20/15 22:04	1
<i>2-Fluorophenol</i>	32		25 - 110				01/15/15 16:05	01/20/15 22:04	1
<i>Nitrobenzene-d5</i>	26		25 - 115				01/15/15 16:05	01/20/15 22:04	1
<i>Phenol-d5</i>	29	X	31 - 110				01/15/15 16:05	01/20/15 22:04	1
<i>Terphenyl-d14</i>	53		36 - 134				01/15/15 16:05	01/20/15 22:04	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/19/15 08:00	01/19/15 23:55	1
Barium	0.25	J	0.50	0.050	mg/L		01/19/15 08:00	01/19/15 23:55	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/19/15 08:00	01/19/15 23:55	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/19/15 08:00	01/19/15 23:55	1
Chromium	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/19/15 23:55	1
Cobalt	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/19/15 23:55	1
Copper	0.086		0.025	0.010	mg/L		01/19/15 08:00	01/19/15 23:55	1
Iron	<0.20		0.20	0.20	mg/L		01/19/15 08:00	01/19/15 23:55	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/19/15 08:00	01/19/15 23:55	1
Manganese	3.9		0.025	0.010	mg/L		01/19/15 08:00	01/19/15 23:55	1
Nickel	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/19/15 23:55	1
Selenium	<0.050		0.050	0.020	mg/L		01/19/15 08:00	01/19/15 23:55	1
Silver	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/19/15 23:55	1
Zinc	0.053	J	0.10	0.020	mg/L		01/19/15 08:00	01/19/15 23:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.027	J	0.050	0.010	mg/L		01/20/15 08:00	01/20/15 23:20	1
Barium	0.91		0.50	0.050	mg/L		01/20/15 08:00	01/20/15 23:20	1
Beryllium	0.0076		0.0040	0.0040	mg/L		01/20/15 08:00	01/20/15 23:20	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/20/15 08:00	01/20/15 23:20	1
Chromium	0.23		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 23:20	1
Cobalt	0.051		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 23:20	1
Copper	0.12		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 23:20	1
Iron	200		0.20	0.20	mg/L		01/20/15 08:00	01/20/15 23:20	1
Lead	0.12		0.0075	0.0075	mg/L		01/20/15 08:00	01/22/15 11:26	1
Manganese	1.1		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 23:20	1
Nickel	0.15		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 23:20	1
Selenium	<0.050		0.050	0.020	mg/L		01/20/15 08:00	01/22/15 11:26	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90788-1

Client Sample ID: RE-2(0-3)-011415

Lab Sample ID: 500-90788-10

Date Collected: 01/14/15 10:55

Matrix: Solid

Date Received: 01/15/15 07:30

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		01/20/15 08:00	01/20/15 23:20	1
Zinc	0.52		0.10	0.020	mg/L		01/20/15 08:00	01/20/15 23:20	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.37	J	1.2	0.25	mg/Kg	☼	01/18/15 16:30	01/20/15 02:47	1
Arsenic	2.9		0.60	0.28	mg/Kg	☼	01/18/15 16:30	01/20/15 02:47	1
Barium	190		0.60	0.11	mg/Kg	☼	01/18/15 16:30	01/20/15 02:47	1
Beryllium	0.89		0.24	0.052	mg/Kg	☼	01/18/15 16:30	01/20/15 02:47	1
Cadmium	0.28		0.12	0.035	mg/Kg	☼	01/18/15 16:30	01/20/15 02:47	1
Calcium	5400		12	3.9	mg/Kg	☼	01/18/15 16:30	01/20/15 02:47	1
Chromium	24		0.60	0.10	mg/Kg	☼	01/18/15 16:30	01/20/15 02:47	1
Cobalt	8.9		0.30	0.068	mg/Kg	☼	01/18/15 16:30	01/20/15 02:47	1
Copper	13		0.60	0.13	mg/Kg	☼	01/18/15 16:30	01/20/15 02:47	1
Iron	25000		12	4.6	mg/Kg	☼	01/18/15 16:30	01/20/15 02:47	1
Lead	15		0.30	0.15	mg/Kg	☼	01/18/15 16:30	01/20/15 02:47	1
Magnesium	4900		6.0	2.4	mg/Kg	☼	01/18/15 16:30	01/20/15 02:47	1
Manganese	330		0.60	0.12	mg/Kg	☼	01/18/15 16:30	01/20/15 02:47	1
Nickel	18		0.60	0.16	mg/Kg	☼	01/18/15 16:30	01/20/15 02:47	1
Potassium	1400		30	4.9	mg/Kg	☼	01/18/15 16:30	01/20/15 02:47	1
Selenium	1.2		0.60	0.30	mg/Kg	☼	01/18/15 16:30	01/20/15 02:47	1
Silver	<0.30		0.30	0.070	mg/Kg	☼	01/18/15 16:30	01/20/15 02:47	1
Sodium	2800		60	7.9	mg/Kg	☼	01/18/15 16:30	01/20/15 02:47	1
Thallium	<0.60		0.60	0.30	mg/Kg	☼	01/18/15 16:30	01/20/15 02:47	1
Vanadium	32		0.30	0.088	mg/Kg	☼	01/18/15 16:30	01/20/15 02:47	1
Zinc	55	B	1.2	0.38	mg/Kg	☼	01/18/15 16:30	01/20/15 02:47	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		01/19/15 11:30	01/20/15 09:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		01/19/15 11:30	01/20/15 10:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	34		20	7.9	ug/Kg	☼	01/15/15 13:00	01/16/15 08:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.52		0.200	0.200	SU			01/19/15 11:43	1

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90788-1

Client Sample ID: RE-6(0-3)-011415

Lab Sample ID: 500-90788-14

Date Collected: 01/14/15 11:45

Matrix: Solid

Date Received: 01/15/15 07:30

Percent Solids: 80.9

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	140		6.2	2.7	ug/Kg	☼		01/19/15 16:58	1
Benzene	<6.2		6.2	0.85	ug/Kg	☼		01/19/15 16:58	1
Bromodichloromethane	<6.2		6.2	1.1	ug/Kg	☼		01/19/15 16:58	1
Bromoform	<6.2		6.2	1.4	ug/Kg	☼		01/19/15 16:58	1
Bromomethane	<6.2		6.2	1.9	ug/Kg	☼		01/19/15 16:58	1
Carbon disulfide	<6.2		6.2	0.92	ug/Kg	☼		01/19/15 16:58	1
Carbon tetrachloride	<6.2		6.2	1.1	ug/Kg	☼		01/19/15 16:58	1
Chlorobenzene	<6.2		6.2	0.63	ug/Kg	☼		01/19/15 16:58	1
Chloroethane	<6.2		6.2	1.7	ug/Kg	☼		01/19/15 16:58	1
Chloroform	<6.2		6.2	0.71	ug/Kg	☼		01/19/15 16:58	1
Chloromethane	<6.2		6.2	1.3	ug/Kg	☼		01/19/15 16:58	1
cis-1,2-Dichloroethene	<6.2		6.2	0.87	ug/Kg	☼		01/19/15 16:58	1
cis-1,3-Dichloropropene	<6.2		6.2	0.81	ug/Kg	☼		01/19/15 16:58	1
Dibromochloromethane	<6.2		6.2	1.1	ug/Kg	☼		01/19/15 16:58	1
1,1-Dichloroethane	<6.2		6.2	0.98	ug/Kg	☼		01/19/15 16:58	1
1,2-Dichloroethane	<6.2		6.2	0.92	ug/Kg	☼		01/19/15 16:58	1
1,1-Dichloroethene	<6.2		6.2	1.0	ug/Kg	☼		01/19/15 16:58	1
1,2-Dichloropropane	<6.2		6.2	0.94	ug/Kg	☼		01/19/15 16:58	1
1,3-Dichloropropene, Total	<6.2		6.2	0.81	ug/Kg	☼		01/19/15 16:58	1
Ethylbenzene	<6.2		6.2	1.2	ug/Kg	☼		01/19/15 16:58	1
2-Hexanone	<6.2		6.2	1.8	ug/Kg	☼		01/19/15 16:58	1
Methylene Chloride	<6.2		6.2	1.7	ug/Kg	☼		01/19/15 16:58	1
Methyl Ethyl Ketone	16		6.2	2.2	ug/Kg	☼		01/19/15 16:58	1
methyl isobutyl ketone	<6.2		6.2	1.6	ug/Kg	☼		01/19/15 16:58	1
Methyl tert-butyl ether	<6.2		6.2	1.0	ug/Kg	☼		01/19/15 16:58	1
Styrene	<6.2		6.2	0.81	ug/Kg	☼		01/19/15 16:58	1
1,1,1,2-Tetrachloroethane	<6.2		6.2	1.2	ug/Kg	☼		01/19/15 16:58	1
Tetrachloroethene	<6.2		6.2	0.94	ug/Kg	☼		01/19/15 16:58	1
Toluene	<6.2		6.2	0.87	ug/Kg	☼		01/19/15 16:58	1
trans-1,2-Dichloroethene	<6.2		6.2	0.85	ug/Kg	☼		01/19/15 16:58	1
trans-1,3-Dichloropropene	<6.2		6.2	1.1	ug/Kg	☼		01/19/15 16:58	1
1,1,1-Trichloroethane	<6.2		6.2	0.92	ug/Kg	☼		01/19/15 16:58	1
1,1,2-Trichloroethane	<6.2		6.2	0.84	ug/Kg	☼		01/19/15 16:58	1
Trichloroethene	<6.2		6.2	1.0	ug/Kg	☼		01/19/15 16:58	1
Vinyl chloride	<6.2		6.2	1.3	ug/Kg	☼		01/19/15 16:58	1
Xylenes, Total	<12		12	0.56	ug/Kg	☼		01/19/15 16:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 122		01/19/15 16:58	1
Dibromofluoromethane	104		75 - 120		01/19/15 16:58	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134		01/19/15 16:58	1
Toluene-d8 (Surr)	97		75 - 122		01/19/15 16:58	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	☼	01/15/15 16:05	01/21/15 02:09	1
1,2-Dichlorobenzene	<200		200	48	ug/Kg	☼	01/15/15 16:05	01/21/15 02:09	1
1,3-Dichlorobenzene	<200		200	45	ug/Kg	☼	01/15/15 16:05	01/21/15 02:09	1
1,4-Dichlorobenzene	<200		200	52	ug/Kg	☼	01/15/15 16:05	01/21/15 02:09	1
2,2'-oxybis[1-chloropropane]	<200		200	47	ug/Kg	☼	01/15/15 16:05	01/21/15 02:09	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90788-1

Client Sample ID: RE-6(0-3)-011415

Lab Sample ID: 500-90788-14

Date Collected: 01/14/15 11:45

Matrix: Solid

Date Received: 01/15/15 07:30

Percent Solids: 80.9

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	*	01/15/15 16:05	01/21/15 02:09	1
2,4,6-Trichlorophenol	<400		400	140	ug/Kg	*	01/15/15 16:05	01/21/15 02:09	1
2,4-Dichlorophenol	<400		400	96	ug/Kg	*	01/15/15 16:05	01/21/15 02:09	1
2,4-Dimethylphenol	<400		400	150	ug/Kg	*	01/15/15 16:05	01/21/15 02:09	1
2,4-Dinitrophenol	<810		810	710	ug/Kg	*	01/15/15 16:05	01/21/15 02:09	1
2,4-Dinitrotoluene	<200		200	64	ug/Kg	*	01/15/15 16:05	01/21/15 02:09	1
2,6-Dinitrotoluene	<200		200	79	ug/Kg	*	01/15/15 16:05	01/21/15 02:09	1
2-Chloronaphthalene	<200		200	45	ug/Kg	*	01/15/15 16:05	01/21/15 02:09	1
2-Chlorophenol	<200		200	69	ug/Kg	*	01/15/15 16:05	01/21/15 02:09	1
2-Methylnaphthalene	<40		40	7.4	ug/Kg	*	01/15/15 16:05	01/21/15 02:09	1
2-Methylphenol	<200		200	65	ug/Kg	*	01/15/15 16:05	01/21/15 02:09	1
2-Nitroaniline	<200		200	54	ug/Kg	*	01/15/15 16:05	01/21/15 02:09	1
2-Nitrophenol	<400		400	95	ug/Kg	*	01/15/15 16:05	01/21/15 02:09	1
3 & 4 Methylphenol	<200		200	67	ug/Kg	*	01/15/15 16:05	01/21/15 02:09	1
3,3'-Dichlorobenzidine	<200		200	56	ug/Kg	*	01/15/15 16:05	01/21/15 02:09	1
3-Nitroaniline	<400		400	120	ug/Kg	*	01/15/15 16:05	01/21/15 02:09	1
4,6-Dinitro-2-methylphenol	<400		400	320	ug/Kg	*	01/15/15 16:05	01/21/15 02:09	1
4-Bromophenyl phenyl ether	<200		200	53	ug/Kg	*	01/15/15 16:05	01/21/15 02:09	1
4-Chloro-3-methylphenol	<400		400	140	ug/Kg	*	01/15/15 16:05	01/21/15 02:09	1
4-Chloroaniline	<810		810	190	ug/Kg	*	01/15/15 16:05	01/21/15 02:09	1
4-Chlorophenyl phenyl ether	<200		200	47	ug/Kg	*	01/15/15 16:05	01/21/15 02:09	1
4-Nitroaniline	<400		400	170	ug/Kg	*	01/15/15 16:05	01/21/15 02:09	1
4-Nitrophenol	<810		810	380	ug/Kg	*	01/15/15 16:05	01/21/15 02:09	1
Acenaphthene	<40		40	7.2	ug/Kg	*	01/15/15 16:05	01/21/15 02:09	1
Acenaphthylene	<40		40	5.3	ug/Kg	*	01/15/15 16:05	01/21/15 02:09	1
Anthracene	<40		40	6.7	ug/Kg	*	01/15/15 16:05	01/21/15 02:09	1
Benzo[a]anthracene	31	J	40	5.4	ug/Kg	*	01/15/15 16:05	01/21/15 02:09	1
Benzo[a]pyrene	40		40	7.8	ug/Kg	*	01/15/15 16:05	01/21/15 02:09	1
Benzo[b]fluoranthene	65		40	8.7	ug/Kg	*	01/15/15 16:05	01/21/15 02:09	1
Benzo[g,h,i]perylene	43		40	13	ug/Kg	*	01/15/15 16:05	01/21/15 02:09	1
Benzo[k]fluoranthene	27	J	40	12	ug/Kg	*	01/15/15 16:05	01/21/15 02:09	1
Bis(2-chloroethoxy)methane	<200		200	41	ug/Kg	*	01/15/15 16:05	01/21/15 02:09	1
Bis(2-chloroethyl)ether	<200		200	60	ug/Kg	*	01/15/15 16:05	01/21/15 02:09	1
Bis(2-ethylhexyl) phthalate	<200		200	74	ug/Kg	*	01/15/15 16:05	01/21/15 02:09	1
Butyl benzyl phthalate	<200		200	77	ug/Kg	*	01/15/15 16:05	01/21/15 02:09	1
Carbazole	<200		200	100	ug/Kg	*	01/15/15 16:05	01/21/15 02:09	1
Chrysene	52		40	11	ug/Kg	*	01/15/15 16:05	01/21/15 02:09	1
Dibenz(a,h)anthracene	23	J	40	7.8	ug/Kg	*	01/15/15 16:05	01/21/15 02:09	1
Dibenzofuran	<200		200	47	ug/Kg	*	01/15/15 16:05	01/21/15 02:09	1
Diethyl phthalate	<200		200	68	ug/Kg	*	01/15/15 16:05	01/21/15 02:09	1
Dimethyl phthalate	<200		200	53	ug/Kg	*	01/15/15 16:05	01/21/15 02:09	1
Di-n-butyl phthalate	<200		200	61	ug/Kg	*	01/15/15 16:05	01/21/15 02:09	1
Di-n-octyl phthalate	330		200	66	ug/Kg	*	01/15/15 16:05	01/21/15 02:09	1
Fluoranthene	68		40	7.5	ug/Kg	*	01/15/15 16:05	01/21/15 02:09	1
Fluorene	<40		40	5.7	ug/Kg	*	01/15/15 16:05	01/21/15 02:09	1
Hexachlorobenzene	<81		81	9.3	ug/Kg	*	01/15/15 16:05	01/21/15 02:09	1
Hexachlorobutadiene	<200		200	63	ug/Kg	*	01/15/15 16:05	01/21/15 02:09	1
Hexachlorocyclopentadiene	<810		810	230	ug/Kg	*	01/15/15 16:05	01/21/15 02:09	1
Hexachloroethane	<200		200	61	ug/Kg	*	01/15/15 16:05	01/21/15 02:09	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90788-1

Client Sample ID: RE-6(0-3)-011415

Lab Sample ID: 500-90788-14

Date Collected: 01/14/15 11:45

Matrix: Solid

Date Received: 01/15/15 07:30

Percent Solids: 80.9

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	43		40	10	ug/Kg	☼	01/15/15 16:05	01/21/15 02:09	1
Isophorone	<200		200	45	ug/Kg	☼	01/15/15 16:05	01/21/15 02:09	1
Naphthalene	<40		40	6.2	ug/Kg	☼	01/15/15 16:05	01/21/15 02:09	1
Nitrobenzene	<40		40	10	ug/Kg	☼	01/15/15 16:05	01/21/15 02:09	1
N-Nitrosodi-n-propylamine	<200		200	49	ug/Kg	☼	01/15/15 16:05	01/21/15 02:09	1
N-Nitrosodiphenylamine	<200		200	48	ug/Kg	☼	01/15/15 16:05	01/21/15 02:09	1
Pentachlorophenol	<810		810	650	ug/Kg	☼	01/15/15 16:05	01/21/15 02:09	1
Phenanthrene	28 J		40	5.6	ug/Kg	☼	01/15/15 16:05	01/21/15 02:09	1
Phenol	<200		200	90	ug/Kg	☼	01/15/15 16:05	01/21/15 02:09	1
Pyrene	63		40	8.0	ug/Kg	☼	01/15/15 16:05	01/21/15 02:09	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>2,4,6-Tribromophenol</i>	48		35 - 137				01/15/15 16:05	01/21/15 02:09	1
<i>2-Fluorobiphenyl</i>	27		25 - 119				01/15/15 16:05	01/21/15 02:09	1
<i>2-Fluorophenol</i>	30		25 - 110				01/15/15 16:05	01/21/15 02:09	1
<i>Nitrobenzene-d5</i>	25		25 - 115				01/15/15 16:05	01/21/15 02:09	1
<i>Phenol-d5</i>	28 X		31 - 110				01/15/15 16:05	01/21/15 02:09	1
<i>Terphenyl-d14</i>	44		36 - 134				01/15/15 16:05	01/21/15 02:09	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/19/15 08:00	01/20/15 00:20	1
Barium	0.63		0.50	0.050	mg/L		01/19/15 08:00	01/20/15 00:20	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/19/15 08:00	01/20/15 00:20	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/19/15 08:00	01/20/15 00:20	1
Chromium	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/20/15 00:20	1
Cobalt	0.026		0.025	0.010	mg/L		01/19/15 08:00	01/20/15 00:20	1
Copper	0.095		0.025	0.010	mg/L		01/19/15 08:00	01/20/15 00:20	1
Iron	1.2		0.20	0.20	mg/L		01/19/15 08:00	01/20/15 00:20	1
Lead	0.018		0.0075	0.0075	mg/L		01/19/15 08:00	01/20/15 00:20	1
Manganese	19		0.025	0.010	mg/L		01/19/15 08:00	01/20/15 00:20	1
Nickel	0.018 J		0.025	0.010	mg/L		01/19/15 08:00	01/20/15 00:20	1
Selenium	<0.050		0.050	0.020	mg/L		01/19/15 08:00	01/20/15 00:20	1
Silver	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/20/15 00:20	1
Zinc	0.082 J		0.10	0.020	mg/L		01/19/15 08:00	01/20/15 00:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.024 J		0.050	0.010	mg/L		01/20/15 08:00	01/20/15 23:39	1
Barium	0.76		0.50	0.050	mg/L		01/20/15 08:00	01/20/15 23:39	1
Beryllium	0.0049		0.0040	0.0040	mg/L		01/20/15 08:00	01/20/15 23:39	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/20/15 08:00	01/20/15 23:39	1
Chromium	0.14		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 23:39	1
Cobalt	0.045		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 23:39	1
Copper	0.099		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 23:39	1
Iron	140		0.20	0.20	mg/L		01/20/15 08:00	01/20/15 23:39	1
Lead	0.11		0.0075	0.0075	mg/L		01/20/15 08:00	01/20/15 23:39	1
Manganese	0.87		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 23:39	1
Nickel	0.098		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 23:39	1
Selenium	<0.050		0.050	0.020	mg/L		01/20/15 08:00	01/22/15 12:08	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90788-1

Client Sample ID: RE-6(0-3)-011415

Lab Sample ID: 500-90788-14

Date Collected: 01/14/15 11:45

Matrix: Solid

Date Received: 01/15/15 07:30

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		01/20/15 08:00	01/20/15 23:39	1
Zinc	0.31		0.10	0.020	mg/L		01/20/15 08:00	01/20/15 23:39	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.30	J	1.2	0.25	mg/Kg	☼	01/18/15 16:30	01/20/15 03:27	1
Arsenic	6.1		0.60	0.28	mg/Kg	☼	01/18/15 16:30	01/20/15 03:27	1
Barium	150		0.60	0.11	mg/Kg	☼	01/18/15 16:30	01/20/15 03:27	1
Beryllium	0.84		0.24	0.052	mg/Kg	☼	01/18/15 16:30	01/20/15 03:27	1
Cadmium	0.26		0.12	0.035	mg/Kg	☼	01/18/15 16:30	01/20/15 03:27	1
Calcium	9000		12	3.9	mg/Kg	☼	01/18/15 16:30	01/20/15 03:27	1
Chromium	24		0.60	0.10	mg/Kg	☼	01/18/15 16:30	01/20/15 03:27	1
Cobalt	11		0.30	0.068	mg/Kg	☼	01/18/15 16:30	01/20/15 03:27	1
Copper	16		0.60	0.13	mg/Kg	☼	01/18/15 16:30	01/20/15 03:27	1
Iron	27000		12	4.6	mg/Kg	☼	01/18/15 16:30	01/20/15 03:27	1
Lead	21		0.30	0.15	mg/Kg	☼	01/18/15 16:30	01/20/15 03:27	1
Magnesium	8000		6.0	2.4	mg/Kg	☼	01/18/15 16:30	01/20/15 03:27	1
Manganese	610		0.60	0.12	mg/Kg	☼	01/18/15 16:30	01/20/15 03:27	1
Nickel	22		0.60	0.16	mg/Kg	☼	01/18/15 16:30	01/20/15 03:27	1
Potassium	1700		30	4.9	mg/Kg	☼	01/18/15 16:30	01/20/15 03:27	1
Selenium	1.1		0.60	0.30	mg/Kg	☼	01/18/15 16:30	01/20/15 03:27	1
Silver	<0.30		0.30	0.070	mg/Kg	☼	01/18/15 16:30	01/20/15 03:27	1
Sodium	2400		60	7.9	mg/Kg	☼	01/18/15 16:30	01/20/15 03:27	1
Thallium	0.68		0.60	0.29	mg/Kg	☼	01/18/15 16:30	01/20/15 03:27	1
Vanadium	32		0.30	0.087	mg/Kg	☼	01/18/15 16:30	01/20/15 03:27	1
Zinc	54	B	1.2	0.38	mg/Kg	☼	01/18/15 16:30	01/20/15 03:27	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		01/19/15 11:30	01/20/15 10:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		01/19/15 11:30	01/20/15 11:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	39		19	7.3	ug/Kg	☼	01/15/15 13:00	01/16/15 09:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.85		0.200	0.200	SU			01/19/15 12:00	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90788-1

Client Sample ID: RE-7(0-3)-011415

Lab Sample ID: 500-90788-15

Date Collected: 01/14/15 12:00

Matrix: Solid

Date Received: 01/15/15 07:30

Percent Solids: 80.8

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	70		6.2	2.7	ug/Kg	☼		01/19/15 17:23	1
Benzene	<6.2		6.2	0.85	ug/Kg	☼		01/19/15 17:23	1
Bromodichloromethane	<6.2		6.2	1.1	ug/Kg	☼		01/19/15 17:23	1
Bromoform	<6.2		6.2	1.4	ug/Kg	☼		01/19/15 17:23	1
Bromomethane	<6.2		6.2	1.9	ug/Kg	☼		01/19/15 17:23	1
Carbon disulfide	<6.2		6.2	0.92	ug/Kg	☼		01/19/15 17:23	1
Carbon tetrachloride	<6.2		6.2	1.1	ug/Kg	☼		01/19/15 17:23	1
Chlorobenzene	<6.2		6.2	0.63	ug/Kg	☼		01/19/15 17:23	1
Chloroethane	<6.2		6.2	1.7	ug/Kg	☼		01/19/15 17:23	1
Chloroform	<6.2		6.2	0.71	ug/Kg	☼		01/19/15 17:23	1
Chloromethane	<6.2		6.2	1.3	ug/Kg	☼		01/19/15 17:23	1
cis-1,2-Dichloroethene	<6.2		6.2	0.87	ug/Kg	☼		01/19/15 17:23	1
cis-1,3-Dichloropropene	<6.2		6.2	0.81	ug/Kg	☼		01/19/15 17:23	1
Dibromochloromethane	<6.2		6.2	1.1	ug/Kg	☼		01/19/15 17:23	1
1,1-Dichloroethane	<6.2		6.2	0.98	ug/Kg	☼		01/19/15 17:23	1
1,2-Dichloroethane	<6.2		6.2	0.92	ug/Kg	☼		01/19/15 17:23	1
1,1-Dichloroethene	<6.2		6.2	1.0	ug/Kg	☼		01/19/15 17:23	1
1,2-Dichloropropane	<6.2		6.2	0.94	ug/Kg	☼		01/19/15 17:23	1
1,3-Dichloropropene, Total	<6.2		6.2	0.81	ug/Kg	☼		01/19/15 17:23	1
Ethylbenzene	<6.2		6.2	1.2	ug/Kg	☼		01/19/15 17:23	1
2-Hexanone	<6.2		6.2	1.8	ug/Kg	☼		01/19/15 17:23	1
Methylene Chloride	<6.2		6.2	1.7	ug/Kg	☼		01/19/15 17:23	1
Methyl Ethyl Ketone	8.1		6.2	2.2	ug/Kg	☼		01/19/15 17:23	1
methyl isobutyl ketone	<6.2		6.2	1.6	ug/Kg	☼		01/19/15 17:23	1
Methyl tert-butyl ether	<6.2		6.2	1.0	ug/Kg	☼		01/19/15 17:23	1
Styrene	<6.2		6.2	0.81	ug/Kg	☼		01/19/15 17:23	1
1,1,2,2-Tetrachloroethane	<6.2		6.2	1.2	ug/Kg	☼		01/19/15 17:23	1
Tetrachloroethene	<6.2		6.2	0.95	ug/Kg	☼		01/19/15 17:23	1
Toluene	<6.2		6.2	0.87	ug/Kg	☼		01/19/15 17:23	1
trans-1,2-Dichloroethene	<6.2		6.2	0.85	ug/Kg	☼		01/19/15 17:23	1
trans-1,3-Dichloropropene	<6.2		6.2	1.1	ug/Kg	☼		01/19/15 17:23	1
1,1,1-Trichloroethane	<6.2		6.2	0.92	ug/Kg	☼		01/19/15 17:23	1
1,1,2-Trichloroethane	<6.2		6.2	0.84	ug/Kg	☼		01/19/15 17:23	1
Trichloroethene	<6.2		6.2	1.0	ug/Kg	☼		01/19/15 17:23	1
Vinyl chloride	<6.2		6.2	1.3	ug/Kg	☼		01/19/15 17:23	1
Xylenes, Total	<12		12	0.56	ug/Kg	☼		01/19/15 17:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122		01/19/15 17:23	1
Dibromofluoromethane	101		75 - 120		01/19/15 17:23	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134		01/19/15 17:23	1
Toluene-d8 (Surr)	98		75 - 122		01/19/15 17:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<200		200	42	ug/Kg	☼	01/15/15 16:05	01/21/15 02:29	1
1,2-Dichlorobenzene	<200		200	47	ug/Kg	☼	01/15/15 16:05	01/21/15 02:29	1
1,3-Dichlorobenzene	<200		200	44	ug/Kg	☼	01/15/15 16:05	01/21/15 02:29	1
1,4-Dichlorobenzene	<200		200	50	ug/Kg	☼	01/15/15 16:05	01/21/15 02:29	1
2,2'-oxybis[1-chloropropane]	<200		200	45	ug/Kg	☼	01/15/15 16:05	01/21/15 02:29	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90788-1

Client Sample ID: RE-7(0-3)-011415

Lab Sample ID: 500-90788-15

Date Collected: 01/14/15 12:00

Matrix: Solid

Date Received: 01/15/15 07:30

Percent Solids: 80.8

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	89	ug/Kg	☼	01/15/15 16:05	01/21/15 02:29	1
2,4,6-Trichlorophenol	<390		390	130	ug/Kg	☼	01/15/15 16:05	01/21/15 02:29	1
2,4-Dichlorophenol	<390		390	93	ug/Kg	☼	01/15/15 16:05	01/21/15 02:29	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	01/15/15 16:05	01/21/15 02:29	1
2,4-Dinitrophenol	<790		790	690	ug/Kg	☼	01/15/15 16:05	01/21/15 02:29	1
2,4-Dinitrotoluene	<200		200	62	ug/Kg	☼	01/15/15 16:05	01/21/15 02:29	1
2,6-Dinitrotoluene	<200		200	77	ug/Kg	☼	01/15/15 16:05	01/21/15 02:29	1
2-Chloronaphthalene	<200		200	43	ug/Kg	☼	01/15/15 16:05	01/21/15 02:29	1
2-Chlorophenol	<200		200	67	ug/Kg	☼	01/15/15 16:05	01/21/15 02:29	1
2-Methylnaphthalene	<39		39	7.2	ug/Kg	☼	01/15/15 16:05	01/21/15 02:29	1
2-Methylphenol	<200		200	63	ug/Kg	☼	01/15/15 16:05	01/21/15 02:29	1
2-Nitroaniline	<200		200	52	ug/Kg	☼	01/15/15 16:05	01/21/15 02:29	1
2-Nitrophenol	<390		390	92	ug/Kg	☼	01/15/15 16:05	01/21/15 02:29	1
3 & 4 Methylphenol	<200		200	65	ug/Kg	☼	01/15/15 16:05	01/21/15 02:29	1
3,3'-Dichlorobenzidine	<200		200	55	ug/Kg	☼	01/15/15 16:05	01/21/15 02:29	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	01/15/15 16:05	01/21/15 02:29	1
4,6-Dinitro-2-methylphenol	<390		390	310	ug/Kg	☼	01/15/15 16:05	01/21/15 02:29	1
4-Bromophenyl phenyl ether	<200		200	51	ug/Kg	☼	01/15/15 16:05	01/21/15 02:29	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	01/15/15 16:05	01/21/15 02:29	1
4-Chloroaniline	<790		790	180	ug/Kg	☼	01/15/15 16:05	01/21/15 02:29	1
4-Chlorophenyl phenyl ether	<200		200	46	ug/Kg	☼	01/15/15 16:05	01/21/15 02:29	1
4-Nitroaniline	<390		390	160	ug/Kg	☼	01/15/15 16:05	01/21/15 02:29	1
4-Nitrophenol	<790		790	370	ug/Kg	☼	01/15/15 16:05	01/21/15 02:29	1
Acenaphthene	<39		39	7.0	ug/Kg	☼	01/15/15 16:05	01/21/15 02:29	1
Acenaphthylene	<39		39	5.1	ug/Kg	☼	01/15/15 16:05	01/21/15 02:29	1
Anthracene	<39		39	6.5	ug/Kg	☼	01/15/15 16:05	01/21/15 02:29	1
Benzo[a]anthracene	<39		39	5.2	ug/Kg	☼	01/15/15 16:05	01/21/15 02:29	1
Benzo[a]pyrene	<39		39	7.6	ug/Kg	☼	01/15/15 16:05	01/21/15 02:29	1
Benzo[b]fluoranthene	17 J		39	8.4	ug/Kg	☼	01/15/15 16:05	01/21/15 02:29	1
Benzo[g,h,i]perylene	17 J		39	13	ug/Kg	☼	01/15/15 16:05	01/21/15 02:29	1
Benzo[k]fluoranthene	<39		39	11	ug/Kg	☼	01/15/15 16:05	01/21/15 02:29	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	☼	01/15/15 16:05	01/21/15 02:29	1
Bis(2-chloroethyl)ether	<200		200	58	ug/Kg	☼	01/15/15 16:05	01/21/15 02:29	1
Bis(2-ethylhexyl) phthalate	<200		200	71	ug/Kg	☼	01/15/15 16:05	01/21/15 02:29	1
Butyl benzyl phthalate	<200		200	74	ug/Kg	☼	01/15/15 16:05	01/21/15 02:29	1
Carbazole	<200		200	100	ug/Kg	☼	01/15/15 16:05	01/21/15 02:29	1
Chrysene	20 J		39	11	ug/Kg	☼	01/15/15 16:05	01/21/15 02:29	1
Dibenz(a,h)anthracene	<39		39	7.5	ug/Kg	☼	01/15/15 16:05	01/21/15 02:29	1
Dibenzofuran	<200		200	46	ug/Kg	☼	01/15/15 16:05	01/21/15 02:29	1
Diethyl phthalate	<200		200	66	ug/Kg	☼	01/15/15 16:05	01/21/15 02:29	1
Dimethyl phthalate	<200		200	51	ug/Kg	☼	01/15/15 16:05	01/21/15 02:29	1
Di-n-butyl phthalate	<200		200	59	ug/Kg	☼	01/15/15 16:05	01/21/15 02:29	1
Di-n-octyl phthalate	<200		200	64	ug/Kg	☼	01/15/15 16:05	01/21/15 02:29	1
Fluoranthene	13 J		39	7.2	ug/Kg	☼	01/15/15 16:05	01/21/15 02:29	1
Fluorene	<39		39	5.5	ug/Kg	☼	01/15/15 16:05	01/21/15 02:29	1
Hexachlorobenzene	<79		79	9.0	ug/Kg	☼	01/15/15 16:05	01/21/15 02:29	1
Hexachlorobutadiene	<200		200	61	ug/Kg	☼	01/15/15 16:05	01/21/15 02:29	1
Hexachlorocyclopentadiene	<790		790	220	ug/Kg	☼	01/15/15 16:05	01/21/15 02:29	1
Hexachloroethane	<200		200	59	ug/Kg	☼	01/15/15 16:05	01/21/15 02:29	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90788-1

Client Sample ID: RE-7(0-3)-011415

Lab Sample ID: 500-90788-15

Date Collected: 01/14/15 12:00

Matrix: Solid

Date Received: 01/15/15 07:30

Percent Solids: 80.8

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	<39		39	10	ug/Kg	☼	01/15/15 16:05	01/21/15 02:29	1
Isophorone	<200		200	44	ug/Kg	☼	01/15/15 16:05	01/21/15 02:29	1
Naphthalene	<39		39	6.0	ug/Kg	☼	01/15/15 16:05	01/21/15 02:29	1
Nitrobenzene	<39		39	9.7	ug/Kg	☼	01/15/15 16:05	01/21/15 02:29	1
N-Nitrosodi-n-propylamine	<200		200	48	ug/Kg	☼	01/15/15 16:05	01/21/15 02:29	1
N-Nitrosodiphenylamine	<200		200	46	ug/Kg	☼	01/15/15 16:05	01/21/15 02:29	1
Pentachlorophenol	<790		790	630	ug/Kg	☼	01/15/15 16:05	01/21/15 02:29	1
Phenanthrene	15	J	39	5.4	ug/Kg	☼	01/15/15 16:05	01/21/15 02:29	1
Phenol	<200		200	87	ug/Kg	☼	01/15/15 16:05	01/21/15 02:29	1
Pyrene	28	J	39	7.8	ug/Kg	☼	01/15/15 16:05	01/21/15 02:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	66		35 - 137				01/15/15 16:05	01/21/15 02:29	1
2-Fluorobiphenyl	40		25 - 119				01/15/15 16:05	01/21/15 02:29	1
2-Fluorophenol	47		25 - 110				01/15/15 16:05	01/21/15 02:29	1
Nitrobenzene-d5	40		25 - 115				01/15/15 16:05	01/21/15 02:29	1
Phenol-d5	42		31 - 110				01/15/15 16:05	01/21/15 02:29	1
Terphenyl-d14	66		36 - 134				01/15/15 16:05	01/21/15 02:29	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		01/19/15 08:00	01/20/15 00:26	1
Barium	0.34	J	0.50	0.050	mg/L		01/19/15 08:00	01/20/15 00:26	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/19/15 08:00	01/20/15 00:26	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/19/15 08:00	01/20/15 00:26	1
Chromium	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/20/15 00:26	1
Cobalt	0.012	J	0.025	0.010	mg/L		01/19/15 08:00	01/20/15 00:26	1
Copper	0.067		0.025	0.010	mg/L		01/19/15 08:00	01/20/15 00:26	1
Iron	0.25		0.20	0.20	mg/L		01/19/15 08:00	01/20/15 00:26	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/19/15 08:00	01/20/15 00:26	1
Manganese	5.6		0.025	0.010	mg/L		01/19/15 08:00	01/20/15 00:26	1
Nickel	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/20/15 00:26	1
Selenium	<0.050		0.050	0.020	mg/L		01/19/15 08:00	01/20/15 00:26	1
Silver	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/20/15 00:26	1
Zinc	0.039	J	0.10	0.020	mg/L		01/19/15 08:00	01/20/15 00:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.037	J	0.050	0.010	mg/L		01/20/15 08:00	01/20/15 23:44	1
Barium	0.72		0.50	0.050	mg/L		01/20/15 08:00	01/20/15 23:44	1
Beryllium	0.0069		0.0040	0.0040	mg/L		01/20/15 08:00	01/20/15 23:44	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/20/15 08:00	01/20/15 23:44	1
Chromium	0.19		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 23:44	1
Cobalt	0.064		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 23:44	1
Copper	0.42		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 23:44	1
Iron	180		0.20	0.20	mg/L		01/20/15 08:00	01/20/15 23:44	1
Lead	0.15		0.038	0.038	mg/L		01/20/15 08:00	01/22/15 12:16	5
Manganese	1.6		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 23:44	1
Nickel	0.16		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 23:44	1
Selenium	<0.050		0.050	0.020	mg/L		01/20/15 08:00	01/22/15 12:12	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90788-1

Client Sample ID: RE-7(0-3)-011415

Lab Sample ID: 500-90788-15

Date Collected: 01/14/15 12:00

Matrix: Solid

Date Received: 01/15/15 07:30

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		01/20/15 08:00	01/20/15 23:44	1
Zinc	0.62		0.10	0.020	mg/L		01/20/15 08:00	01/20/15 23:44	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.33	J	1.1	0.24	mg/Kg	☼	01/18/15 16:30	01/20/15 03:33	1
Arsenic	3.6		0.57	0.27	mg/Kg	☼	01/18/15 16:30	01/20/15 03:33	1
Barium	87		0.57	0.11	mg/Kg	☼	01/18/15 16:30	01/20/15 03:33	1
Beryllium	0.76		0.23	0.050	mg/Kg	☼	01/18/15 16:30	01/20/15 03:33	1
Cadmium	0.21		0.11	0.033	mg/Kg	☼	01/18/15 16:30	01/20/15 03:33	1
Calcium	8100		11	3.7	mg/Kg	☼	01/18/15 16:30	01/20/15 03:33	1
Chromium	21		0.57	0.099	mg/Kg	☼	01/18/15 16:30	01/20/15 03:33	1
Cobalt	8.5		0.29	0.065	mg/Kg	☼	01/18/15 16:30	01/20/15 03:33	1
Copper	16		0.57	0.12	mg/Kg	☼	01/18/15 16:30	01/20/15 03:33	1
Iron	22000		11	4.4	mg/Kg	☼	01/18/15 16:30	01/20/15 03:33	1
Lead	13		0.29	0.14	mg/Kg	☼	01/18/15 16:30	01/20/15 03:33	1
Magnesium	6200		5.7	2.3	mg/Kg	☼	01/18/15 16:30	01/20/15 03:33	1
Manganese	340		0.57	0.11	mg/Kg	☼	01/18/15 16:30	01/20/15 03:33	1
Nickel	19		0.57	0.16	mg/Kg	☼	01/18/15 16:30	01/20/15 03:33	1
Potassium	1500		29	4.7	mg/Kg	☼	01/18/15 16:30	01/20/15 03:33	1
Selenium	1.1		0.57	0.28	mg/Kg	☼	01/18/15 16:30	01/20/15 03:33	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	01/18/15 16:30	01/20/15 03:33	1
Sodium	28000		570	76	mg/Kg	☼	01/18/15 16:30	01/20/15 13:59	10
Thallium	<0.57		0.57	0.28	mg/Kg	☼	01/18/15 16:30	01/20/15 03:33	1
Vanadium	26		0.29	0.084	mg/Kg	☼	01/18/15 16:30	01/20/15 03:33	1
Zinc	51	B	1.1	0.36	mg/Kg	☼	01/18/15 16:30	01/20/15 03:33	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		01/19/15 11:30	01/20/15 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		01/19/15 11:30	01/20/15 11:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	29		19	7.6	ug/Kg	☼	01/15/15 13:00	01/16/15 09:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.76		0.200	0.200	SU			01/19/15 12:04	1

Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90788-1

Qualifiers

GC/MS VOA

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

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.
X	Surrogate is outside control limits
F1	MS and/or MSD Recovery exceeds the control limits
F2	MS/MSD RPD exceeds control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
F1	MS and/or MSD Recovery exceeds the 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.
F2	MS/MSD RPD exceeds control 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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90788-1

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-15

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

Analysis Method	Prep Method	Matrix	Analyte
7470A	7470A	Solid	Mercury
8260B		Solid	1,3-Dichloropropene, Total
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



500-90788 COC

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

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

Chain of Custody Record

Lab Job #: 500-90788
Chain of Custody Number:
Page 1 of 3
Temperature °C of Cooler: 3.2 / 2.8

Client		Client Project #		Preservative		7		7		7		7		7		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		VOCs		SVOCs		Total Metals		TCUP/SPLP Metals		PH		
Project Location/State		Lab PM														
Sampler																
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix										Comments
1		SA-1(0-3)-011415	1/14/15	0830	2	S	X	X	X	X	X					
2		V9-1(0-3)-011415		0850												
3		V9-2(0-3)-011415		0905												
4		V9-3(0-3)-011415		0920												
5		TM-1(0-3)-011415		0940												
6		UC-3(0-3)-011415		1005												
7		UC-4(0-3)-011415		1025												
8		UC-4(0-3)-011415D		1025												
9		RE-1(0-3)-011415		1040												
10		RE-2(0-3)-011415		1055												

Turnaround Time Required (Business Days)

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

Requested Due Date

Sample Disposal

Return to Client

Disposal by Lab

Archive for _____ Months

(A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>M. Strow</u>	Company <u>Weston</u>	Date <u>1/14/15</u>	Time <u>1540</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>1/14/15</u>	Time <u>1530</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>1/14/15</u>	Time <u>1720</u>	Received By <u>[Signature]</u>	Company <u>TA-CAT</u>	Date <u>1/15/15</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: S. Babusukumar
Company: Weston
Address: 300 Plaza Circle Ste 202
Address: Mundelein, IL 60060
Phone: (224) 864-7200
Fax:
E-Mail:

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

Chain of Custody Record

Lab Job #: 500-90788

Chain of Custody Number: _____

Page 2 of 3

Temperature °C of Cooler: _____

Client		Client Project #		Preservative		7		7		7		7		7		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		7		7		7		7		7		Comments		
Project Location/State		Lab Project #		VOCs		SVOCs		Total Metals		TCUP/SPLP Metals		PH				
Sampler		Lab PM		M		M		M		M		M				
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix										
11		RE-3 (0-3) - 011415	1/14/15	1105	2 S		X	X	X	X	X					
12		RE-4 (0-3) - 011415		1125												
13		RE-5 (0-3) - 011415		1135												
14		RE-6 (0-3) - 011415		1145												
15		RE-7 (0-3) - 011415		1200												
16		LC-8 (0-3) - 011415		1300												
17		LC-7 (0-3) - 011415		1310												
18		LC-6 (0-3) - 011415		1320												
19		LC-5 (0-3) - 011415		1340												
20		LC-5 (0-3) - 011415D		1340												

Turnaround Time Required (Business Days)

___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days ___ Standard ___ 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>Weston</u>	Company <u>Weston</u>	Date <u>1/14/15</u>	Time <u>1540</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>1/14/15</u>	Time <u>1540</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>1/14/15</u>	Time <u>1720</u>	Received By <u>[Signature]</u>	Company <u>TA-CRT</u>	Date <u>1/15/15</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:



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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 346: US 41 from IL 21 to West Park Ave Office Phone Number, if available: _____

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

1200 block of N. Skokie Highway; 900 block of N. Delany Road; and 1000 block of N. Delany Road

City: Gurnee State: IL Zip Code: _____

County: Lake Township: _____

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

Latitude: 42.37742935 Longitude: -87.90602136
(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: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

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

Project Name: FAP 346: US 41 from IL 21 to West Park AveLatitude: 42.37742935 Longitude: -87.90602136Uncontaminated Site Certification**III. Basis for Certification and Attachments**

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

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

LOCATIONS W-1, W-2, W-5, AND W-6 WERE SAMPLED ADJACENT TO ISGS SITE No. 2668A-25. SEE FIGURE 3-3 AND TABLE 4-1 OF THE REVISED 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]:

TEST AMERICA ANALYTICAL REPORT - JOB ID: 500-90849-1

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

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

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

Company Name: Illinois Department of TransportationStreet Address: 2300 South Dirksen ParkwayCity: Springfield State: IL Zip Code: 62764Phone: 217-785-4246

Kurt T. Fischer P.G. _____

Printed Name:




Date:

Licensed Professional Engineer or
Licensed Professional Geologist Signature:



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

Summary Table of ISGS Site No. 2668A-25
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 346: US Route 41 (Skokie Highway) from IL Route 21 to West Park Avenue
Gurnee, Park City, Waukegan, and North Chicago, Lake County, Illinois

Field Sample ID	W-1(0-3)-011515	W-2(0-3)-011515	W-5(0-3)-011515	W-6(0-3)-011515	W-6(0-3)-011515D	Soil Reference Concentrations ^A
Sample Date	1/15/2015	1/15/2015	1/15/2015	1/15/2015	1/15/2015	
Location ID	W-1	W-2	W-5	W-6	W-6	
Depth	0 - 3	0 - 3	0 - 3	0 - 3	0 - 3	
Lab Sample ID	500-90849-16	500-90849-17	500-90849-20	500-90850-1	500-90850-2	
ISGS Site Number	2668A-25	2668A-25	2668A-25	2668A-25	2668A-25	
Parameter						
Laboratory pH (s.u.)	7.73	8.45	7.95	7.59	7.7	<6.25,>9.0
VOCs (ug/kg)						
Acetone	110	37	26	37	43	25000
Methyl ethyl ketone	25	5.5 J	ND	ND	ND	---
SVOCs (ug/kg)						
Benzo(a)anthracene	7.9 J	ND	ND	10 J	7.5 J	900 / 1100 / 1800
Benzo(a)pyrene	ND	7.7 J	ND	9.9 J	7.8 J	90 / 1300 / 2100
Benzo(b)fluoranthene	12 J	9.6 J	9.2 J	15 J	12 J	900 / 1500 / 2100
Benzo(g,h,i)perylene	ND	ND	12 J	13 J	ND	---
Chrysene	ND	ND	ND	12 J	ND	88000
Fluoranthene	10 J	ND	ND	15 J	14 J	3100000
Phenanthrene	ND	ND	ND	ND	7.3 J	---
Pyrene	12 J	7.5 J	ND	16 J	10 J	2300000
Total Metals (mg/kg)						
Antimony, Total	0.45 J	0.45 J	0.44 J	0.44 J	0.41 J	5
Arsenic, Total	8 J+	7.8 J+	6 J+	6.2	6	11.3 / 13
Barium, Total	56	44	46	49	64	1500
Beryllium, Total	0.64	0.65	0.61	0.57	0.65	22
Cadmium, Total	0.41 J-	0.32 J-	0.42 J-	0.26	0.23	5.2
Calcium, Total	29000 J	40000 J	78000 J	74000	62000	---
Chromium, Total	17 J+	18 J+	17 J+	14	16	21
Cobalt, Total	7.9 J-	9.9 J-	9.5 J-	11	11	20
Copper, Total	21 B	21 B	20 B	21	20	2900
Iron, Total	21000 J	19000 J	17000 J	17000 B	18000 B	15000 / 15900
Lead, Total	18 J	14 J	11 J	39	34	107
Magnesium, Total	18000 J+	24000 J+	33000 J+	29000	25000	325000
Manganese, Total	590 J	400 J	490 J	460	490	630 / 636
Mercury, Total	0.043 J+	0.033 J+	0.021 J+	0.019	0.031	0.89
Nickel, Total	20	24	22	26	28	100
Potassium, Total	2100 J+	2600 J+	3200 J+	1900	2100	---
Selenium, Total	ND	ND	ND	0.37 J	0.61	1.3
Sodium, Total	2200	1300	840	1500 B	1700 B	---
Thallium, Total	0.9 J-	0.65 J-	0.81 J-	0.45 J	0.34 J	2.6
Vanadium, Total	25	23	20	21	22	550
Zinc, Total	60 J	47 J	42 J	88 B	82 B	5100

Summary Table of ISGS Site No. 2668A-25
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 346: US Route 41 (Skokie Highway) from IL Route 21 to West Park Avenue
Gurnee, Park City, Waukegan, and North Chicago, Lake County, Illinois

Field Sample ID	W-1(0-3)-011515	W-2(0-3)-011515	W-5(0-3)-011515	W-6(0-3)-011515	W-6(0-3)-011515D	Soil Reference Concentrations ^A
Sample Date	1/15/2015	1/15/2015	1/15/2015	1/15/2015	1/15/2015	
Location ID	W-1	W-2	W-5	W-6	W-6	
Depth	0 - 3	0 - 3	0 - 3	0 - 3	0 - 3	
Lab Sample ID	500-90849-16	500-90849-17	500-90849-20	500-90850-1	500-90850-2	
ISGS Site Number	2668A-25	2668A-25	2668A-25	2668A-25	2668A-25	
Parameter						
TCLP Metals (mg/l)						
Barium, TCLP	0.44 J	0.34 J	0.4 J	0.52	0.55	2
Cobalt, TCLP	0.018 J	ND	ND	0.016 J	0.017 J	1
Copper, TCLP	ND	0.048	0.02 J	ND	0.066	0.65
Lead, TCLP	ND	ND	ND	ND	0.009	0.0075
Manganese, TCLP	15	1.6	1.9	4.7	5.6	0.15
Nickel, TCLP	0.011 J	ND	ND	0.014 J	0.015 J	0.1
Zinc, TCLP	0.027 J	0.042 J	0.025 J	0.026 J	0.054 J	5
SPLP Metals (mg/l)						
Arsenic, SPLP	0.033 J	0.059	0.026 J	0.042 J	0.045 J	0.05
Barium, SPLP	0.31 J	0.44 J	0.23 J	0.44 J	0.5	2
Beryllium, SPLP	ND	0.006	ND	0.0048	0.0057	0.004
Chromium, SPLP	0.083	0.14	0.07	0.11	0.14	0.1
Cobalt, SPLP	0.031	0.041	0.022 J	0.044	0.049	1
Copper, SPLP	0.15	0.19	0.13	0.22	0.18	0.65
Iron, SPLP	93 J+	140 J+	64 J+	110	130	5
Lead, SPLP	0.06	0.1	0.043	0.11	0.11	0.0075
Manganese, SPLP	1.3	0.97	0.55	1.6	1.7	0.15
Nickel, SPLP	0.089	0.15	0.077	0.13	0.15	0.1
Zinc, SPLP	0.29	0.35	0.21	0.43	0.45	5

Notes:

--- - not applicable or value not available.

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

B - Constituent detected in investigative and blank sample.

ND - Constituent not detected above the reporting limit.

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: 500-90849-1
Client Project/Site: IDOT - Lake County - WO 001

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

Attn: Mr. S. Babusukumar



Authorized for release by:
1/27/2015 8:24:19 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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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 - Lake County - WO 001

TestAmerica Job ID: 500-90849-1

Client Sample ID: W-1(0-3)-011515

Lab Sample ID: 500-90849-16

Date Collected: 01/15/15 11:50

Matrix: Solid

Date Received: 01/16/15 07:25

Percent Solids: 81.3

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	110		6.2	2.7	ug/Kg	☼		01/20/15 18:02	1
Benzene	<6.2		6.2	0.84	ug/Kg	☼		01/20/15 18:02	1
Bromodichloromethane	<6.2		6.2	1.1	ug/Kg	☼		01/20/15 18:02	1
Bromoform	<6.2		6.2	1.4	ug/Kg	☼		01/20/15 18:02	1
Bromomethane	<6.2		6.2	1.9	ug/Kg	☼		01/20/15 18:02	1
Carbon disulfide	<6.2		6.2	0.92	ug/Kg	☼		01/20/15 18:02	1
Carbon tetrachloride	<6.2		6.2	1.1	ug/Kg	☼		01/20/15 18:02	1
Chlorobenzene	<6.2		6.2	0.62	ug/Kg	☼		01/20/15 18:02	1
Chloroethane	<6.2		6.2	1.7	ug/Kg	☼		01/20/15 18:02	1
Chloroform	<6.2		6.2	0.71	ug/Kg	☼		01/20/15 18:02	1
Chloromethane	<6.2		6.2	1.3	ug/Kg	☼		01/20/15 18:02	1
cis-1,2-Dichloroethene	<6.2		6.2	0.87	ug/Kg	☼		01/20/15 18:02	1
cis-1,3-Dichloropropene	<6.2		6.2	0.81	ug/Kg	☼		01/20/15 18:02	1
Dibromochloromethane	<6.2		6.2	1.1	ug/Kg	☼		01/20/15 18:02	1
1,1-Dichloroethane	<6.2		6.2	0.97	ug/Kg	☼		01/20/15 18:02	1
1,2-Dichloroethane	<6.2		6.2	0.91	ug/Kg	☼		01/20/15 18:02	1
1,1-Dichloroethene	<6.2		6.2	0.99	ug/Kg	☼		01/20/15 18:02	1
1,2-Dichloropropane	<6.2		6.2	0.93	ug/Kg	☼		01/20/15 18:02	1
1,3-Dichloropropene, Total	<6.2		6.2	0.81	ug/Kg	☼		01/20/15 18:02	1
Ethylbenzene	<6.2		6.2	1.2	ug/Kg	☼		01/20/15 18:02	1
2-Hexanone	<6.2		6.2	1.8	ug/Kg	☼		01/20/15 18:02	1
Methylene Chloride	<6.2		6.2	1.7	ug/Kg	☼		01/20/15 18:02	1
Methyl Ethyl Ketone	25		6.2	2.2	ug/Kg	☼		01/20/15 18:02	1
methyl isobutyl ketone	<6.2		6.2	1.6	ug/Kg	☼		01/20/15 18:02	1
Methyl tert-butyl ether	<6.2		6.2	1.0	ug/Kg	☼		01/20/15 18:02	1
Styrene	<6.2		6.2	0.81	ug/Kg	☼		01/20/15 18:02	1
1,1,1,2-Tetrachloroethane	<6.2		6.2	1.2	ug/Kg	☼		01/20/15 18:02	1
Tetrachloroethene	<6.2		6.2	0.94	ug/Kg	☼		01/20/15 18:02	1
Toluene	<6.2		6.2	0.86	ug/Kg	☼		01/20/15 18:02	1
trans-1,2-Dichloroethene	<6.2		6.2	0.85	ug/Kg	☼		01/20/15 18:02	1
trans-1,3-Dichloropropene	<6.2		6.2	1.1	ug/Kg	☼		01/20/15 18:02	1
1,1,1-Trichloroethane	<6.2		6.2	0.92	ug/Kg	☼		01/20/15 18:02	1
1,1,2-Trichloroethane	<6.2		6.2	0.84	ug/Kg	☼		01/20/15 18:02	1
Trichloroethene	<6.2		6.2	1.0	ug/Kg	☼		01/20/15 18:02	1
Vinyl chloride	<6.2		6.2	1.3	ug/Kg	☼		01/20/15 18:02	1
Xylenes, Total	<12		12	0.56	ug/Kg	☼		01/20/15 18:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 122		01/20/15 18:02	1
Dibromofluoromethane	106		75 - 120		01/20/15 18:02	1
1,2-Dichloroethane-d4 (Surr)	116		70 - 134		01/20/15 18:02	1
Toluene-d8 (Surr)	96		75 - 122		01/20/15 18:02	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	☼	01/16/15 15:52	01/21/15 16:56	1
1,2-Dichlorobenzene	<200		200	47	ug/Kg	☼	01/16/15 15:52	01/21/15 16:56	1
1,3-Dichlorobenzene	<200		200	44	ug/Kg	☼	01/16/15 15:52	01/21/15 16:56	1
1,4-Dichlorobenzene	<200		200	50	ug/Kg	☼	01/16/15 15:52	01/21/15 16:56	1
2,2'-oxybis[1-chloropropane]	<200		200	46	ug/Kg	☼	01/16/15 15:52	01/21/15 16:56	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90849-1

Client Sample ID: W-1(0-3)-011515

Lab Sample ID: 500-90849-16

Date Collected: 01/15/15 11:50

Matrix: Solid

Date Received: 01/16/15 07:25

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	☼	01/16/15 15:52	01/21/15 16:56	1
2,4,6-Trichlorophenol	<390		390	130	ug/Kg	☼	01/16/15 15:52	01/21/15 16:56	1
2,4-Dichlorophenol	<390		390	93	ug/Kg	☼	01/16/15 15:52	01/21/15 16:56	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	01/16/15 15:52	01/21/15 16:56	1
2,4-Dinitrophenol	<790	*	790	690	ug/Kg	☼	01/16/15 15:52	01/21/15 16:56	1
2,4-Dinitrotoluene	<200		200	62	ug/Kg	☼	01/16/15 15:52	01/21/15 16:56	1
2,6-Dinitrotoluene	<200		200	77	ug/Kg	☼	01/16/15 15:52	01/21/15 16:56	1
2-Chloronaphthalene	<200		200	43	ug/Kg	☼	01/16/15 15:52	01/21/15 16:56	1
2-Chlorophenol	<200		200	67	ug/Kg	☼	01/16/15 15:52	01/21/15 16:56	1
2-Methylnaphthalene	<39		39	7.2	ug/Kg	☼	01/16/15 15:52	01/21/15 16:56	1
2-Methylphenol	<200		200	63	ug/Kg	☼	01/16/15 15:52	01/21/15 16:56	1
2-Nitroaniline	<200		200	53	ug/Kg	☼	01/16/15 15:52	01/21/15 16:56	1
2-Nitrophenol	<390		390	93	ug/Kg	☼	01/16/15 15:52	01/21/15 16:56	1
3 & 4 Methylphenol	<200		200	66	ug/Kg	☼	01/16/15 15:52	01/21/15 16:56	1
3,3'-Dichlorobenzidine	<200		200	55	ug/Kg	☼	01/16/15 15:52	01/21/15 16:56	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	01/16/15 15:52	01/21/15 16:56	1
4,6-Dinitro-2-methylphenol	<390		390	320	ug/Kg	☼	01/16/15 15:52	01/21/15 16:56	1
4-Bromophenyl phenyl ether	<200		200	52	ug/Kg	☼	01/16/15 15:52	01/21/15 16:56	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	01/16/15 15:52	01/21/15 16:56	1
4-Chloroaniline	<790		790	180	ug/Kg	☼	01/16/15 15:52	01/21/15 16:56	1
4-Chlorophenyl phenyl ether	<200		200	46	ug/Kg	☼	01/16/15 15:52	01/21/15 16:56	1
4-Nitroaniline	<390		390	160	ug/Kg	☼	01/16/15 15:52	01/21/15 16:56	1
4-Nitrophenol	<790		790	370	ug/Kg	☼	01/16/15 15:52	01/21/15 16:56	1
Acenaphthene	<39		39	7.1	ug/Kg	☼	01/16/15 15:52	01/21/15 16:56	1
Acenaphthylene	<39		39	5.2	ug/Kg	☼	01/16/15 15:52	01/21/15 16:56	1
Anthracene	<39		39	6.6	ug/Kg	☼	01/16/15 15:52	01/21/15 16:56	1
Benzo[a]anthracene	7.9	J	39	5.3	ug/Kg	☼	01/16/15 15:52	01/21/15 16:56	1
Benzo[a]pyrene	<39		39	7.6	ug/Kg	☼	01/16/15 15:52	01/21/15 16:56	1
Benzo[b]fluoranthene	12	J	39	8.5	ug/Kg	☼	01/16/15 15:52	01/21/15 16:56	1
Benzo[g,h,i]perylene	<39		39	13	ug/Kg	☼	01/16/15 15:52	01/21/15 16:56	1
Benzo[k]fluoranthene	<39		39	12	ug/Kg	☼	01/16/15 15:52	01/21/15 16:56	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	☼	01/16/15 15:52	01/21/15 16:56	1
Bis(2-chloroethyl)ether	<200		200	59	ug/Kg	☼	01/16/15 15:52	01/21/15 16:56	1
Bis(2-ethylhexyl) phthalate	<200		200	72	ug/Kg	☼	01/16/15 15:52	01/21/15 16:56	1
Butyl benzyl phthalate	<200		200	75	ug/Kg	☼	01/16/15 15:52	01/21/15 16:56	1
Carbazole	<200		200	100	ug/Kg	☼	01/16/15 15:52	01/21/15 16:56	1
Chrysene	<39		39	11	ug/Kg	☼	01/16/15 15:52	01/21/15 16:56	1
Dibenz(a,h)anthracene	<39		39	7.6	ug/Kg	☼	01/16/15 15:52	01/21/15 16:56	1
Dibenzofuran	<200		200	46	ug/Kg	☼	01/16/15 15:52	01/21/15 16:56	1
Diethyl phthalate	<200		200	67	ug/Kg	☼	01/16/15 15:52	01/21/15 16:56	1
Dimethyl phthalate	<200		200	51	ug/Kg	☼	01/16/15 15:52	01/21/15 16:56	1
Di-n-butyl phthalate	<200		200	60	ug/Kg	☼	01/16/15 15:52	01/21/15 16:56	1
Di-n-octyl phthalate	<200		200	64	ug/Kg	☼	01/16/15 15:52	01/21/15 16:56	1
Fluoranthene	10	J	39	7.3	ug/Kg	☼	01/16/15 15:52	01/21/15 16:56	1
Fluorene	<39		39	5.5	ug/Kg	☼	01/16/15 15:52	01/21/15 16:56	1
Hexachlorobenzene	<79		79	9.1	ug/Kg	☼	01/16/15 15:52	01/21/15 16:56	1
Hexachlorobutadiene	<200		200	62	ug/Kg	☼	01/16/15 15:52	01/21/15 16:56	1
Hexachlorocyclopentadiene	<790		790	230	ug/Kg	☼	01/16/15 15:52	01/21/15 16:56	1
Hexachloroethane	<200		200	60	ug/Kg	☼	01/16/15 15:52	01/21/15 16:56	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90849-1

Client Sample ID: W-1(0-3)-011515

Lab Sample ID: 500-90849-16

Date Collected: 01/15/15 11:50

Matrix: Solid

Date Received: 01/16/15 07:25

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	<39		39	10	ug/Kg	☼	01/16/15 15:52	01/21/15 16:56	1
Isophorone	<200		200	44	ug/Kg	☼	01/16/15 15:52	01/21/15 16:56	1
Naphthalene	<39		39	6.0	ug/Kg	☼	01/16/15 15:52	01/21/15 16:56	1
Nitrobenzene	<39		39	9.8	ug/Kg	☼	01/16/15 15:52	01/21/15 16:56	1
N-Nitrosodi-n-propylamine	<200		200	48	ug/Kg	☼	01/16/15 15:52	01/21/15 16:56	1
N-Nitrosodiphenylamine	<200		200	46	ug/Kg	☼	01/16/15 15:52	01/21/15 16:56	1
Pentachlorophenol	<790		790	630	ug/Kg	☼	01/16/15 15:52	01/21/15 16:56	1
Phenanthrene	<39		39	5.5	ug/Kg	☼	01/16/15 15:52	01/21/15 16:56	1
Phenol	<200		200	87	ug/Kg	☼	01/16/15 15:52	01/21/15 16:56	1
Pyrene	12	J	39	7.8	ug/Kg	☼	01/16/15 15:52	01/21/15 16:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	57		35 - 137	01/16/15 15:52	01/21/15 16:56	1
2-Fluorobiphenyl	35		25 - 119	01/16/15 15:52	01/21/15 16:56	1
2-Fluorophenol	47		25 - 110	01/16/15 15:52	01/21/15 16:56	1
Nitrobenzene-d5	38		25 - 115	01/16/15 15:52	01/21/15 16:56	1
Phenol-d5	40		31 - 110	01/16/15 15:52	01/21/15 16:56	1
Terphenyl-d14	74		36 - 134	01/16/15 15:52	01/21/15 16:56	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		01/19/15 08:00	01/21/15 20:16	1
Barium	0.44	J	0.50	0.050	mg/L		01/19/15 08:00	01/21/15 20:16	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/19/15 08:00	01/21/15 20:16	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/19/15 08:00	01/21/15 20:16	1
Chromium	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/21/15 20:16	1
Cobalt	0.018	J	0.025	0.010	mg/L		01/19/15 08:00	01/21/15 20:16	1
Copper	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/21/15 20:16	1
Iron	<0.20		0.20	0.20	mg/L		01/19/15 08:00	01/21/15 20:16	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/19/15 08:00	01/21/15 20:16	1
Manganese	15		0.025	0.010	mg/L		01/19/15 08:00	01/21/15 20:16	1
Nickel	0.011	J	0.025	0.010	mg/L		01/19/15 08:00	01/21/15 20:16	1
Selenium	<0.050		0.050	0.020	mg/L		01/19/15 08:00	01/21/15 20:16	1
Silver	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/21/15 20:16	1
Zinc	0.027	J	0.10	0.020	mg/L		01/19/15 08:00	01/21/15 20:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.033	J	0.050	0.010	mg/L		01/20/15 08:30	01/21/15 15:14	1
Barium	0.31	J	0.50	0.050	mg/L		01/20/15 08:30	01/21/15 15:14	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/20/15 08:30	01/21/15 15:14	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/20/15 08:30	01/21/15 15:14	1
Chromium	0.083		0.025	0.010	mg/L		01/20/15 08:30	01/21/15 15:14	1
Cobalt	0.031		0.025	0.010	mg/L		01/20/15 08:30	01/21/15 15:14	1
Copper	0.15		0.025	0.010	mg/L		01/20/15 08:30	01/21/15 15:14	1
Iron	93		0.20	0.20	mg/L		01/20/15 08:30	01/21/15 15:14	1
Lead	0.060		0.0075	0.0075	mg/L		01/20/15 08:30	01/21/15 15:14	1
Manganese	1.3		0.025	0.010	mg/L		01/20/15 08:30	01/21/15 15:14	1
Nickel	0.089		0.025	0.010	mg/L		01/20/15 08:30	01/21/15 15:14	1
Selenium	<0.050		0.050	0.020	mg/L		01/20/15 08:30	01/21/15 15:14	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90849-1

Client Sample ID: W-1(0-3)-011515

Lab Sample ID: 500-90849-16

Date Collected: 01/15/15 11:50

Matrix: Solid

Date Received: 01/16/15 07:25

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		01/20/15 08:30	01/21/15 15:14	1
Zinc	0.29		0.10	0.020	mg/L		01/20/15 08:30	01/21/15 15:14	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.45	J	1.2	0.25	mg/Kg	☼	01/18/15 16:30	01/20/15 16:20	1
Arsenic	8.0		0.61	0.28	mg/Kg	☼	01/18/15 16:30	01/20/15 16:20	1
Barium	56		0.61	0.11	mg/Kg	☼	01/18/15 16:30	01/20/15 16:20	1
Beryllium	0.64		0.24	0.053	mg/Kg	☼	01/18/15 16:30	01/20/15 16:20	1
Cadmium	0.41		0.12	0.035	mg/Kg	☼	01/18/15 16:30	01/20/15 16:20	1
Calcium	29000		12	3.9	mg/Kg	☼	01/18/15 16:30	01/20/15 16:20	1
Chromium	17		0.61	0.11	mg/Kg	☼	01/18/15 16:30	01/20/15 16:20	1
Cobalt	7.9		0.31	0.069	mg/Kg	☼	01/18/15 16:30	01/20/15 16:20	1
Copper	21	B	0.61	0.13	mg/Kg	☼	01/18/15 16:30	01/20/15 16:20	1
Iron	21000		12	4.7	mg/Kg	☼	01/18/15 16:30	01/20/15 16:20	1
Lead	18		0.31	0.15	mg/Kg	☼	01/18/15 16:30	01/20/15 16:20	1
Magnesium	18000		6.1	2.5	mg/Kg	☼	01/18/15 16:30	01/20/15 16:20	1
Manganese	590		0.61	0.12	mg/Kg	☼	01/18/15 16:30	01/20/15 16:20	1
Nickel	20		0.61	0.17	mg/Kg	☼	01/18/15 16:30	01/20/15 16:20	1
Potassium	2100		31	5.0	mg/Kg	☼	01/18/15 16:30	01/20/15 16:20	1
Selenium	<0.61		0.61	0.30	mg/Kg	☼	01/18/15 16:30	01/20/15 16:20	1
Silver	<0.31		0.31	0.071	mg/Kg	☼	01/18/15 16:30	01/20/15 16:20	1
Sodium	2200		61	8.1	mg/Kg	☼	01/18/15 16:30	01/20/15 16:20	1
Thallium	0.90		0.61	0.30	mg/Kg	☼	01/18/15 16:30	01/20/15 16:20	1
Vanadium	25		0.31	0.089	mg/Kg	☼	01/18/15 16:30	01/20/15 16:20	1
Zinc	60	B	1.2	0.39	mg/Kg	☼	01/18/15 16:30	01/20/15 16:20	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		01/20/15 11:00	01/21/15 10:46	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		01/20/15 11:00	01/21/15 12:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	43		19	6.6	ug/Kg	☼	01/16/15 13:00	01/19/15 11:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.73		0.200	0.200	SU			01/19/15 14:23	1

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90849-1

Client Sample ID: W-2(0-3)-011515

Lab Sample ID: 500-90849-17

Date Collected: 01/15/15 12:00

Matrix: Solid

Date Received: 01/16/15 07:25

Percent Solids: 87.3

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	37		5.7	2.5	ug/Kg	☼		01/20/15 18:26	1
Benzene	<5.7		5.7	0.78	ug/Kg	☼		01/20/15 18:26	1
Bromodichloromethane	<5.7		5.7	0.99	ug/Kg	☼		01/20/15 18:26	1
Bromoform	<5.7		5.7	1.3	ug/Kg	☼		01/20/15 18:26	1
Bromomethane	<5.7		5.7	1.7	ug/Kg	☼		01/20/15 18:26	1
Carbon disulfide	<5.7		5.7	0.86	ug/Kg	☼		01/20/15 18:26	1
Carbon tetrachloride	<5.7		5.7	1.0	ug/Kg	☼		01/20/15 18:26	1
Chlorobenzene	<5.7		5.7	0.58	ug/Kg	☼		01/20/15 18:26	1
Chloroethane	<5.7		5.7	1.6	ug/Kg	☼		01/20/15 18:26	1
Chloroform	<5.7		5.7	0.66	ug/Kg	☼		01/20/15 18:26	1
Chloromethane	<5.7		5.7	1.2	ug/Kg	☼		01/20/15 18:26	1
cis-1,2-Dichloroethene	<5.7		5.7	0.81	ug/Kg	☼		01/20/15 18:26	1
cis-1,3-Dichloropropene	<5.7		5.7	0.75	ug/Kg	☼		01/20/15 18:26	1
Dibromochloromethane	<5.7		5.7	1.0	ug/Kg	☼		01/20/15 18:26	1
1,1-Dichloroethane	<5.7		5.7	0.91	ug/Kg	☼		01/20/15 18:26	1
1,2-Dichloroethane	<5.7		5.7	0.85	ug/Kg	☼		01/20/15 18:26	1
1,1,1-Dichloroethane	<5.7		5.7	0.93	ug/Kg	☼		01/20/15 18:26	1
1,2-Dichloropropane	<5.7		5.7	0.87	ug/Kg	☼		01/20/15 18:26	1
1,3-Dichloropropene, Total	<5.7		5.7	0.75	ug/Kg	☼		01/20/15 18:26	1
Ethylbenzene	<5.7		5.7	1.2	ug/Kg	☼		01/20/15 18:26	1
2-Hexanone	<5.7		5.7	1.6	ug/Kg	☼		01/20/15 18:26	1
Methylene Chloride	<5.7		5.7	1.5	ug/Kg	☼		01/20/15 18:26	1
Methyl Ethyl Ketone	5.5 J		5.7	2.1	ug/Kg	☼		01/20/15 18:26	1
methyl isobutyl ketone	<5.7		5.7	1.5	ug/Kg	☼		01/20/15 18:26	1
Methyl tert-butyl ether	<5.7		5.7	0.95	ug/Kg	☼		01/20/15 18:26	1
Styrene	<5.7		5.7	0.75	ug/Kg	☼		01/20/15 18:26	1
1,1,1,2-Tetrachloroethane	<5.7		5.7	1.2	ug/Kg	☼		01/20/15 18:26	1
Tetrachloroethene	<5.7		5.7	0.88	ug/Kg	☼		01/20/15 18:26	1
Toluene	<5.7		5.7	0.80	ug/Kg	☼		01/20/15 18:26	1
trans-1,2-Dichloroethene	<5.7		5.7	0.79	ug/Kg	☼		01/20/15 18:26	1
trans-1,3-Dichloropropene	<5.7		5.7	1.0	ug/Kg	☼		01/20/15 18:26	1
1,1,1-Trichloroethane	<5.7		5.7	0.86	ug/Kg	☼		01/20/15 18:26	1
1,1,2-Trichloroethane	<5.7		5.7	0.78	ug/Kg	☼		01/20/15 18:26	1
Trichloroethene	<5.7		5.7	0.95	ug/Kg	☼		01/20/15 18:26	1
Vinyl chloride	<5.7		5.7	1.2	ug/Kg	☼		01/20/15 18:26	1
Xylenes, Total	<11		11	0.52	ug/Kg	☼		01/20/15 18:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122		01/20/15 18:26	1
Dibromofluoromethane	106		75 - 120		01/20/15 18:26	1
1,2-Dichloroethane-d4 (Surr)	114		70 - 134		01/20/15 18:26	1
Toluene-d8 (Surr)	93		75 - 122		01/20/15 18:26	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	☼	01/16/15 15:52	01/21/15 17:17	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	01/16/15 15:52	01/21/15 17:17	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	01/16/15 15:52	01/21/15 17:17	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	01/16/15 15:52	01/21/15 17:17	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	01/16/15 15:52	01/21/15 17:17	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90849-1

Client Sample ID: W-2(0-3)-011515

Lab Sample ID: 500-90849-17

Date Collected: 01/15/15 12:00

Matrix: Solid

Date Received: 01/16/15 07:25

Percent Solids: 87.3

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	☼	01/16/15 15:52	01/21/15 17:17	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	01/16/15 15:52	01/21/15 17:17	1
2,4-Dichlorophenol	<370		370	88	ug/Kg	☼	01/16/15 15:52	01/21/15 17:17	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	01/16/15 15:52	01/21/15 17:17	1
2,4-Dinitrophenol	<750	*	750	660	ug/Kg	☼	01/16/15 15:52	01/21/15 17:17	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	01/16/15 15:52	01/21/15 17:17	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	01/16/15 15:52	01/21/15 17:17	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	01/16/15 15:52	01/21/15 17:17	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	01/16/15 15:52	01/21/15 17:17	1
2-Methylnaphthalene	<37		37	6.9	ug/Kg	☼	01/16/15 15:52	01/21/15 17:17	1
2-Methylphenol	<190		190	60	ug/Kg	☼	01/16/15 15:52	01/21/15 17:17	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	01/16/15 15:52	01/21/15 17:17	1
2-Nitrophenol	<370		370	88	ug/Kg	☼	01/16/15 15:52	01/21/15 17:17	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	01/16/15 15:52	01/21/15 17:17	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	01/16/15 15:52	01/21/15 17:17	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	01/16/15 15:52	01/21/15 17:17	1
4,6-Dinitro-2-methylphenol	<370		370	300	ug/Kg	☼	01/16/15 15:52	01/21/15 17:17	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	01/16/15 15:52	01/21/15 17:17	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	01/16/15 15:52	01/21/15 17:17	1
4-Chloroaniline	<750		750	170	ug/Kg	☼	01/16/15 15:52	01/21/15 17:17	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	01/16/15 15:52	01/21/15 17:17	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	01/16/15 15:52	01/21/15 17:17	1
4-Nitrophenol	<750		750	350	ug/Kg	☼	01/16/15 15:52	01/21/15 17:17	1
Acenaphthene	<37		37	6.7	ug/Kg	☼	01/16/15 15:52	01/21/15 17:17	1
Acenaphthylene	<37		37	4.9	ug/Kg	☼	01/16/15 15:52	01/21/15 17:17	1
Anthracene	<37		37	6.2	ug/Kg	☼	01/16/15 15:52	01/21/15 17:17	1
Benzo[a]anthracene	<37		37	5.0	ug/Kg	☼	01/16/15 15:52	01/21/15 17:17	1
Benzo[a]pyrene	7.7	J	37	7.2	ug/Kg	☼	01/16/15 15:52	01/21/15 17:17	1
Benzo[b]fluoranthene	9.6	J	37	8.0	ug/Kg	☼	01/16/15 15:52	01/21/15 17:17	1
Benzo[g,h,i]perylene	<37		37	12	ug/Kg	☼	01/16/15 15:52	01/21/15 17:17	1
Benzo[k]fluoranthene	<37		37	11	ug/Kg	☼	01/16/15 15:52	01/21/15 17:17	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	01/16/15 15:52	01/21/15 17:17	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	01/16/15 15:52	01/21/15 17:17	1
Bis(2-ethylhexyl) phthalate	<190		190	68	ug/Kg	☼	01/16/15 15:52	01/21/15 17:17	1
Butyl benzyl phthalate	<190		190	71	ug/Kg	☼	01/16/15 15:52	01/21/15 17:17	1
Carbazole	<190		190	96	ug/Kg	☼	01/16/15 15:52	01/21/15 17:17	1
Chrysene	<37		37	10	ug/Kg	☼	01/16/15 15:52	01/21/15 17:17	1
Dibenz(a,h)anthracene	<37		37	7.2	ug/Kg	☼	01/16/15 15:52	01/21/15 17:17	1
Dibenzofuran	<190		190	44	ug/Kg	☼	01/16/15 15:52	01/21/15 17:17	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	01/16/15 15:52	01/21/15 17:17	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	01/16/15 15:52	01/21/15 17:17	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	01/16/15 15:52	01/21/15 17:17	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	01/16/15 15:52	01/21/15 17:17	1
Fluoranthene	<37		37	6.9	ug/Kg	☼	01/16/15 15:52	01/21/15 17:17	1
Fluorene	<37		37	5.2	ug/Kg	☼	01/16/15 15:52	01/21/15 17:17	1
Hexachlorobenzene	<75		75	8.6	ug/Kg	☼	01/16/15 15:52	01/21/15 17:17	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	01/16/15 15:52	01/21/15 17:17	1
Hexachlorocyclopentadiene	<750		750	210	ug/Kg	☼	01/16/15 15:52	01/21/15 17:17	1
Hexachloroethane	<190		190	57	ug/Kg	☼	01/16/15 15:52	01/21/15 17:17	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90849-1

Client Sample ID: W-2(0-3)-011515

Lab Sample ID: 500-90849-17

Date Collected: 01/15/15 12:00

Matrix: Solid

Date Received: 01/16/15 07:25

Percent Solids: 87.3

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	<37		37	9.7	ug/Kg	☼	01/16/15 15:52	01/21/15 17:17	1
Isophorone	<190		190	42	ug/Kg	☼	01/16/15 15:52	01/21/15 17:17	1
Naphthalene	<37		37	5.7	ug/Kg	☼	01/16/15 15:52	01/21/15 17:17	1
Nitrobenzene	<37		37	9.3	ug/Kg	☼	01/16/15 15:52	01/21/15 17:17	1
N-Nitrosodi-n-propylamine	<190		190	46	ug/Kg	☼	01/16/15 15:52	01/21/15 17:17	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	01/16/15 15:52	01/21/15 17:17	1
Pentachlorophenol	<750		750	600	ug/Kg	☼	01/16/15 15:52	01/21/15 17:17	1
Phenanthrene	<37		37	5.2	ug/Kg	☼	01/16/15 15:52	01/21/15 17:17	1
Phenol	<190		190	83	ug/Kg	☼	01/16/15 15:52	01/21/15 17:17	1
Pyrene	7.5	J	37	7.4	ug/Kg	☼	01/16/15 15:52	01/21/15 17:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	43		35 - 137	01/16/15 15:52	01/21/15 17:17	1
2-Fluorobiphenyl	31		25 - 119	01/16/15 15:52	01/21/15 17:17	1
2-Fluorophenol	37		25 - 110	01/16/15 15:52	01/21/15 17:17	1
Nitrobenzene-d5	32		25 - 115	01/16/15 15:52	01/21/15 17:17	1
Phenol-d5	34		31 - 110	01/16/15 15:52	01/21/15 17:17	1
Terphenyl-d14	54		36 - 134	01/16/15 15:52	01/21/15 17:17	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		01/19/15 08:00	01/21/15 20:22	1
Barium	0.34	J	0.50	0.050	mg/L		01/19/15 08:00	01/21/15 20:22	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/19/15 08:00	01/21/15 20:22	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/19/15 08:00	01/21/15 20:22	1
Chromium	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/21/15 20:22	1
Cobalt	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/21/15 20:22	1
Copper	0.048		0.025	0.010	mg/L		01/19/15 08:00	01/21/15 20:22	1
Iron	<0.20		0.20	0.20	mg/L		01/19/15 08:00	01/21/15 20:22	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/19/15 08:00	01/21/15 20:22	1
Manganese	1.6		0.025	0.010	mg/L		01/19/15 08:00	01/21/15 20:22	1
Nickel	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/21/15 20:22	1
Selenium	<0.050		0.050	0.020	mg/L		01/19/15 08:00	01/21/15 20:22	1
Silver	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/21/15 20:22	1
Zinc	0.042	J	0.10	0.020	mg/L		01/19/15 08:00	01/21/15 20:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.059		0.050	0.010	mg/L		01/20/15 08:30	01/21/15 15:20	1
Barium	0.44	J	0.50	0.050	mg/L		01/20/15 08:30	01/21/15 15:20	1
Beryllium	0.0060		0.0040	0.0040	mg/L		01/20/15 08:30	01/21/15 15:20	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/20/15 08:30	01/21/15 15:20	1
Chromium	0.14		0.025	0.010	mg/L		01/20/15 08:30	01/21/15 15:20	1
Cobalt	0.041		0.025	0.010	mg/L		01/20/15 08:30	01/21/15 15:20	1
Copper	0.19		0.025	0.010	mg/L		01/20/15 08:30	01/21/15 15:20	1
Iron	140		0.20	0.20	mg/L		01/20/15 08:30	01/21/15 15:20	1
Lead	0.10		0.0075	0.0075	mg/L		01/20/15 08:30	01/21/15 15:20	1
Manganese	0.97		0.025	0.010	mg/L		01/20/15 08:30	01/21/15 15:20	1
Nickel	0.15		0.025	0.010	mg/L		01/20/15 08:30	01/21/15 15:20	1
Selenium	<0.050		0.050	0.020	mg/L		01/20/15 08:30	01/21/15 15:20	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90849-1

Client Sample ID: W-2(0-3)-011515

Lab Sample ID: 500-90849-17

Date Collected: 01/15/15 12:00

Matrix: Solid

Date Received: 01/16/15 07:25

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		01/20/15 08:30	01/21/15 15:20	1
Zinc	0.35		0.10	0.020	mg/L		01/20/15 08:30	01/21/15 15:20	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.45	J	1.1	0.23	mg/Kg	☼	01/18/15 16:30	01/20/15 16:26	1
Arsenic	7.8		0.56	0.26	mg/Kg	☼	01/18/15 16:30	01/20/15 16:26	1
Barium	44		0.56	0.10	mg/Kg	☼	01/18/15 16:30	01/20/15 16:26	1
Beryllium	0.65		0.23	0.049	mg/Kg	☼	01/18/15 16:30	01/20/15 16:26	1
Cadmium	0.32		0.11	0.033	mg/Kg	☼	01/18/15 16:30	01/20/15 16:26	1
Calcium	4000		11	3.6	mg/Kg	☼	01/18/15 16:30	01/20/15 16:26	1
Chromium	18		0.56	0.097	mg/Kg	☼	01/18/15 16:30	01/20/15 16:26	1
Cobalt	9.9		0.28	0.064	mg/Kg	☼	01/18/15 16:30	01/20/15 16:26	1
Copper	21	B	0.56	0.12	mg/Kg	☼	01/18/15 16:30	01/20/15 16:26	1
Iron	19000		11	4.3	mg/Kg	☼	01/18/15 16:30	01/20/15 16:26	1
Lead	14		0.28	0.14	mg/Kg	☼	01/18/15 16:30	01/20/15 16:26	1
Magnesium	24000		5.6	2.3	mg/Kg	☼	01/18/15 16:30	01/20/15 16:26	1
Manganese	400		0.56	0.11	mg/Kg	☼	01/18/15 16:30	01/20/15 16:26	1
Nickel	24		0.56	0.15	mg/Kg	☼	01/18/15 16:30	01/20/15 16:26	1
Potassium	2600		28	4.6	mg/Kg	☼	01/18/15 16:30	01/20/15 16:26	1
Selenium	<0.56		0.56	0.28	mg/Kg	☼	01/18/15 16:30	01/20/15 16:26	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	01/18/15 16:30	01/20/15 16:26	1
Sodium	1300		56	7.4	mg/Kg	☼	01/18/15 16:30	01/20/15 16:26	1
Thallium	0.65		0.56	0.28	mg/Kg	☼	01/18/15 16:30	01/20/15 16:26	1
Vanadium	23		0.28	0.082	mg/Kg	☼	01/18/15 16:30	01/20/15 16:26	1
Zinc	47	B	1.1	0.36	mg/Kg	☼	01/18/15 16:30	01/20/15 16:26	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		01/20/15 11:00	01/21/15 10:48	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		01/20/15 11:00	01/21/15 12:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	33		19	6.6	ug/Kg	☼	01/16/15 13:00	01/19/15 11:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.45		0.200	0.200	SU			01/19/15 14:27	1

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90849-1

Client Sample ID: W-5(0-3)-011515

Lab Sample ID: 500-90849-20

Date Collected: 01/15/15 12:40

Matrix: Solid

Date Received: 01/16/15 07:25

Percent Solids: 86.8

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	26		5.8	2.5	ug/Kg	☼		01/20/15 19:38	1
Benzene	<5.8		5.8	0.79	ug/Kg	☼		01/20/15 19:38	1
Bromodichloromethane	<5.8		5.8	0.99	ug/Kg	☼		01/20/15 19:38	1
Bromoform	<5.8		5.8	1.3	ug/Kg	☼		01/20/15 19:38	1
Bromomethane	<5.8		5.8	1.7	ug/Kg	☼		01/20/15 19:38	1
Carbon disulfide	<5.8		5.8	0.86	ug/Kg	☼		01/20/15 19:38	1
Carbon tetrachloride	<5.8		5.8	1.0	ug/Kg	☼		01/20/15 19:38	1
Chlorobenzene	<5.8		5.8	0.58	ug/Kg	☼		01/20/15 19:38	1
Chloroethane	<5.8		5.8	1.6	ug/Kg	☼		01/20/15 19:38	1
Chloroform	<5.8		5.8	0.66	ug/Kg	☼		01/20/15 19:38	1
Chloromethane	<5.8		5.8	1.2	ug/Kg	☼		01/20/15 19:38	1
cis-1,2-Dichloroethene	<5.8		5.8	0.81	ug/Kg	☼		01/20/15 19:38	1
cis-1,3-Dichloropropene	<5.8		5.8	0.76	ug/Kg	☼		01/20/15 19:38	1
Dibromochloromethane	<5.8		5.8	1.0	ug/Kg	☼		01/20/15 19:38	1
1,1-Dichloroethane	<5.8		5.8	0.91	ug/Kg	☼		01/20/15 19:38	1
1,2-Dichloroethane	<5.8		5.8	0.85	ug/Kg	☼		01/20/15 19:38	1
1,1-Dichloroethene	<5.8		5.8	0.93	ug/Kg	☼		01/20/15 19:38	1
1,2-Dichloropropane	<5.8		5.8	0.87	ug/Kg	☼		01/20/15 19:38	1
1,3-Dichloropropene, Total	<5.8		5.8	0.76	ug/Kg	☼		01/20/15 19:38	1
Ethylbenzene	<5.8		5.8	1.2	ug/Kg	☼		01/20/15 19:38	1
2-Hexanone	<5.8		5.8	1.7	ug/Kg	☼		01/20/15 19:38	1
Methylene Chloride	<5.8		5.8	1.6	ug/Kg	☼		01/20/15 19:38	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		01/20/15 19:38	1
methyl isobutyl ketone	<5.8		5.8	1.5	ug/Kg	☼		01/20/15 19:38	1
Methyl tert-butyl ether	<5.8		5.8	0.95	ug/Kg	☼		01/20/15 19:38	1
Styrene	<5.8		5.8	0.76	ug/Kg	☼		01/20/15 19:38	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	1.2	ug/Kg	☼		01/20/15 19:38	1
Tetrachloroethene	<5.8		5.8	0.88	ug/Kg	☼		01/20/15 19:38	1
Toluene	<5.8		5.8	0.81	ug/Kg	☼		01/20/15 19:38	1
trans-1,2-Dichloroethene	<5.8		5.8	0.79	ug/Kg	☼		01/20/15 19:38	1
trans-1,3-Dichloropropene	<5.8		5.8	1.0	ug/Kg	☼		01/20/15 19:38	1
1,1,1-Trichloroethane	<5.8		5.8	0.86	ug/Kg	☼		01/20/15 19:38	1
1,1,2-Trichloroethane	<5.8		5.8	0.79	ug/Kg	☼		01/20/15 19:38	1
Trichloroethene	<5.8		5.8	0.95	ug/Kg	☼		01/20/15 19:38	1
Vinyl chloride	<5.8		5.8	1.2	ug/Kg	☼		01/20/15 19:38	1
Xylenes, Total	<12		12	0.52	ug/Kg	☼		01/20/15 19:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122		01/20/15 19:38	1
Dibromofluoromethane	104		75 - 120		01/20/15 19:38	1
1,2-Dichloroethane-d4 (Surr)	116		70 - 134		01/20/15 19:38	1
Toluene-d8 (Surr)	95		75 - 122		01/20/15 19:38	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	☼	01/16/15 15:52	01/21/15 18:18	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	01/16/15 15:52	01/21/15 18:18	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	01/16/15 15:52	01/21/15 18:18	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	01/16/15 15:52	01/21/15 18:18	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	01/16/15 15:52	01/21/15 18:18	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90849-1

Client Sample ID: W-5(0-3)-011515

Lab Sample ID: 500-90849-20

Date Collected: 01/15/15 12:40

Matrix: Solid

Date Received: 01/16/15 07:25

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	<380		380	87	ug/Kg	☼	01/16/15 15:52	01/21/15 18:18	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	01/16/15 15:52	01/21/15 18:18	1
2,4-Dichlorophenol	<380		380	90	ug/Kg	☼	01/16/15 15:52	01/21/15 18:18	1
2,4-Dimethylphenol	<380		380	140	ug/Kg	☼	01/16/15 15:52	01/21/15 18:18	1
2,4-Dinitrophenol	<770 *		770	670	ug/Kg	☼	01/16/15 15:52	01/21/15 18:18	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	01/16/15 15:52	01/21/15 18:18	1
2,6-Dinitrotoluene	<190		190	75	ug/Kg	☼	01/16/15 15:52	01/21/15 18:18	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	01/16/15 15:52	01/21/15 18:18	1
2-Chlorophenol	<190		190	65	ug/Kg	☼	01/16/15 15:52	01/21/15 18:18	1
2-Methylnaphthalene	<38		38	7.0	ug/Kg	☼	01/16/15 15:52	01/21/15 18:18	1
2-Methylphenol	<190		190	61	ug/Kg	☼	01/16/15 15:52	01/21/15 18:18	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	01/16/15 15:52	01/21/15 18:18	1
2-Nitrophenol	<380		380	90	ug/Kg	☼	01/16/15 15:52	01/21/15 18:18	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	01/16/15 15:52	01/21/15 18:18	1
3,3'-Dichlorobenzidine	<190		190	53	ug/Kg	☼	01/16/15 15:52	01/21/15 18:18	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	01/16/15 15:52	01/21/15 18:18	1
4,6-Dinitro-2-methylphenol	<380		380	310	ug/Kg	☼	01/16/15 15:52	01/21/15 18:18	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	01/16/15 15:52	01/21/15 18:18	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	01/16/15 15:52	01/21/15 18:18	1
4-Chloroaniline	<770		770	180	ug/Kg	☼	01/16/15 15:52	01/21/15 18:18	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	01/16/15 15:52	01/21/15 18:18	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	01/16/15 15:52	01/21/15 18:18	1
4-Nitrophenol	<770		770	360	ug/Kg	☼	01/16/15 15:52	01/21/15 18:18	1
Acenaphthene	<38		38	6.8	ug/Kg	☼	01/16/15 15:52	01/21/15 18:18	1
Acenaphthylene	<38		38	5.0	ug/Kg	☼	01/16/15 15:52	01/21/15 18:18	1
Anthracene	<38		38	6.4	ug/Kg	☼	01/16/15 15:52	01/21/15 18:18	1
Benzo[a]anthracene	<38		38	5.1	ug/Kg	☼	01/16/15 15:52	01/21/15 18:18	1
Benzo[a]pyrene	<38		38	7.4	ug/Kg	☼	01/16/15 15:52	01/21/15 18:18	1
Benzo[b]fluoranthene	9.2 J		38	8.2	ug/Kg	☼	01/16/15 15:52	01/21/15 18:18	1
Benzo[g,h,i]perylene	12 J		38	12	ug/Kg	☼	01/16/15 15:52	01/21/15 18:18	1
Benzo[k]fluoranthene	<38		38	11	ug/Kg	☼	01/16/15 15:52	01/21/15 18:18	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	01/16/15 15:52	01/21/15 18:18	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	01/16/15 15:52	01/21/15 18:18	1
Bis(2-ethylhexyl) phthalate	<190		190	69	ug/Kg	☼	01/16/15 15:52	01/21/15 18:18	1
Butyl benzyl phthalate	<190		190	72	ug/Kg	☼	01/16/15 15:52	01/21/15 18:18	1
Carbazole	<190		190	98	ug/Kg	☼	01/16/15 15:52	01/21/15 18:18	1
Chrysene	<38		38	10	ug/Kg	☼	01/16/15 15:52	01/21/15 18:18	1
Dibenz(a,h)anthracene	<38		38	7.3	ug/Kg	☼	01/16/15 15:52	01/21/15 18:18	1
Dibenzofuran	<190		190	45	ug/Kg	☼	01/16/15 15:52	01/21/15 18:18	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	01/16/15 15:52	01/21/15 18:18	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	01/16/15 15:52	01/21/15 18:18	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	01/16/15 15:52	01/21/15 18:18	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	01/16/15 15:52	01/21/15 18:18	1
Fluoranthene	<38		38	7.1	ug/Kg	☼	01/16/15 15:52	01/21/15 18:18	1
Fluorene	<38		38	5.3	ug/Kg	☼	01/16/15 15:52	01/21/15 18:18	1
Hexachlorobenzene	<77		77	8.8	ug/Kg	☼	01/16/15 15:52	01/21/15 18:18	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	01/16/15 15:52	01/21/15 18:18	1
Hexachlorocyclopentadiene	<770		770	220	ug/Kg	☼	01/16/15 15:52	01/21/15 18:18	1
Hexachloroethane	<190		190	58	ug/Kg	☼	01/16/15 15:52	01/21/15 18:18	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90849-1

Client Sample ID: W-5(0-3)-011515

Lab Sample ID: 500-90849-20

Date Collected: 01/15/15 12:40

Matrix: Solid

Date Received: 01/16/15 07:25

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	<38		38	9.9	ug/Kg	☼	01/16/15 15:52	01/21/15 18:18	1
Isophorone	<190		190	43	ug/Kg	☼	01/16/15 15:52	01/21/15 18:18	1
Naphthalene	<38		38	5.8	ug/Kg	☼	01/16/15 15:52	01/21/15 18:18	1
Nitrobenzene	<38		38	9.5	ug/Kg	☼	01/16/15 15:52	01/21/15 18:18	1
N-Nitrosodi-n-propylamine	<190		190	46	ug/Kg	☼	01/16/15 15:52	01/21/15 18:18	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	01/16/15 15:52	01/21/15 18:18	1
Pentachlorophenol	<770		770	610	ug/Kg	☼	01/16/15 15:52	01/21/15 18:18	1
Phenanthrene	<38		38	5.3	ug/Kg	☼	01/16/15 15:52	01/21/15 18:18	1
Phenol	<190		190	84	ug/Kg	☼	01/16/15 15:52	01/21/15 18:18	1
Pyrene	<38		38	7.6	ug/Kg	☼	01/16/15 15:52	01/21/15 18:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	50		35 - 137				01/16/15 15:52	01/21/15 18:18	1
2-Fluorobiphenyl	44		25 - 119				01/16/15 15:52	01/21/15 18:18	1
2-Fluorophenol	53		25 - 110				01/16/15 15:52	01/21/15 18:18	1
Nitrobenzene-d5	47		25 - 115				01/16/15 15:52	01/21/15 18:18	1
Phenol-d5	44		31 - 110				01/16/15 15:52	01/21/15 18:18	1
Terphenyl-d14	61		36 - 134				01/16/15 15:52	01/21/15 18:18	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		01/19/15 08:00	01/21/15 20:41	1
Barium	0.40	J	0.50	0.050	mg/L		01/19/15 08:00	01/21/15 20:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/19/15 08:00	01/21/15 20:41	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/19/15 08:00	01/21/15 20:41	1
Chromium	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/21/15 20:41	1
Cobalt	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/21/15 20:41	1
Copper	0.020	J	0.025	0.010	mg/L		01/19/15 08:00	01/21/15 20:41	1
Iron	<0.20		0.20	0.20	mg/L		01/19/15 08:00	01/21/15 20:41	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/19/15 08:00	01/21/15 20:41	1
Manganese	1.9		0.025	0.010	mg/L		01/19/15 08:00	01/21/15 20:41	1
Nickel	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/21/15 20:41	1
Selenium	<0.050		0.050	0.020	mg/L		01/19/15 08:00	01/21/15 20:41	1
Silver	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/21/15 20:41	1
Zinc	0.025	J	0.10	0.020	mg/L		01/19/15 08:00	01/21/15 20:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.026	J	0.050	0.010	mg/L		01/20/15 08:30	01/21/15 15:54	1
Barium	0.23	J	0.50	0.050	mg/L		01/20/15 08:30	01/21/15 15:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/20/15 08:30	01/21/15 15:54	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/20/15 08:30	01/21/15 15:54	1
Chromium	0.070		0.025	0.010	mg/L		01/20/15 08:30	01/21/15 15:54	1
Cobalt	0.022	J	0.025	0.010	mg/L		01/20/15 08:30	01/21/15 15:54	1
Copper	0.13		0.025	0.010	mg/L		01/20/15 08:30	01/21/15 15:54	1
Iron	64		0.20	0.20	mg/L		01/20/15 08:30	01/21/15 15:54	1
Lead	0.043		0.0075	0.0075	mg/L		01/20/15 08:30	01/21/15 15:54	1
Manganese	0.55		0.025	0.010	mg/L		01/20/15 08:30	01/21/15 15:54	1
Nickel	0.077		0.025	0.010	mg/L		01/20/15 08:30	01/21/15 15:54	1
Selenium	<0.050		0.050	0.020	mg/L		01/20/15 08:30	01/21/15 15:54	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90849-1

Client Sample ID: W-5(0-3)-011515

Lab Sample ID: 500-90849-20

Date Collected: 01/15/15 12:40

Matrix: Solid

Date Received: 01/16/15 07:25

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		01/20/15 08:30	01/21/15 15:54	1
Zinc	0.21		0.10	0.020	mg/L		01/20/15 08:30	01/21/15 15:54	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.44	J	1.1	0.23	mg/Kg	☼	01/18/15 16:30	01/20/15 17:24	1
Arsenic	6.0		0.55	0.26	mg/Kg	☼	01/18/15 16:30	01/20/15 17:24	1
Barium	46		0.55	0.10	mg/Kg	☼	01/18/15 16:30	01/20/15 17:24	1
Beryllium	0.61		0.22	0.048	mg/Kg	☼	01/18/15 16:30	01/20/15 17:24	1
Cadmium	0.42		0.11	0.032	mg/Kg	☼	01/18/15 16:30	01/20/15 17:24	1
Calcium	78000		110	36	mg/Kg	☼	01/18/15 16:30	01/21/15 15:17	10
Chromium	17		0.55	0.095	mg/Kg	☼	01/18/15 16:30	01/20/15 17:24	1
Cobalt	9.5		0.28	0.062	mg/Kg	☼	01/18/15 16:30	01/20/15 17:24	1
Copper	20	B	0.55	0.12	mg/Kg	☼	01/18/15 16:30	01/20/15 17:24	1
Iron	17000		11	4.3	mg/Kg	☼	01/18/15 16:30	01/20/15 17:24	1
Lead	11		0.28	0.14	mg/Kg	☼	01/18/15 16:30	01/20/15 17:24	1
Magnesium	33000		5.5	2.2	mg/Kg	☼	01/18/15 16:30	01/20/15 17:24	1
Manganese	490		0.55	0.11	mg/Kg	☼	01/18/15 16:30	01/20/15 17:24	1
Nickel	22		0.55	0.15	mg/Kg	☼	01/18/15 16:30	01/20/15 17:24	1
Potassium	3200		28	4.5	mg/Kg	☼	01/18/15 16:30	01/20/15 17:24	1
Selenium	<0.55		0.55	0.27	mg/Kg	☼	01/18/15 16:30	01/20/15 17:24	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	01/18/15 16:30	01/20/15 17:24	1
Sodium	840		55	7.3	mg/Kg	☼	01/18/15 16:30	01/20/15 17:24	1
Thallium	0.81		0.55	0.27	mg/Kg	☼	01/18/15 16:30	01/20/15 17:24	1
Vanadium	20		0.28	0.081	mg/Kg	☼	01/18/15 16:30	01/20/15 17:24	1
Zinc	42	B	1.1	0.35	mg/Kg	☼	01/18/15 16:30	01/20/15 17:24	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		01/20/15 11:00	01/21/15 10:58	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		01/20/15 11:00	01/21/15 12:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	21		17	6.0	ug/Kg	☼	01/16/15 13:00	01/19/15 11:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.95		0.200	0.200	SU			01/19/15 14:40	1

Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90849-1

Qualifiers

GC/MS VOA

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

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
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
F1	MS and/or MSD Recovery exceeds the control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F2	MS/MSD RPD exceeds control 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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90849-1

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-15

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

Analysis Method	Prep Method	Matrix	Analyte
7470A	7470A	Solid	Mercury
8260B		Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

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TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 61
Phone: 708.534.5200 Fax: 708.53



500-90849 COC

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

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

Chain of Custody Record

Lab Job #: 500-90849
Chain of Custody Number:
Page 1 of 3
Temperature °C of Cooler: 3.1, 3.5

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	
<u>Weston</u>				<u>7</u>	<u>7</u>	<u>7</u>	<u>7</u>	<u>7</u>	Comments		
Project Name <u>IDOT 001</u>		Lab Project #		<u>VOCs</u>	<u>SVOCs</u>	<u>Total Metals</u>	<u>TCLP/SLP Metals</u>	<u>pH</u>			
Project Location/State <u>IL</u>		Lab PM <u>D. Wright</u>									
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix					
<u>1</u>		<u>FP-5 (0-3)-011515</u>	<u>1/5/15</u>	<u>0835</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>2</u>		<u>FP-4 (0-3)-011515</u>		<u>0750</u>							
<u>3</u>		<u>FP-3 (0-3)-011515</u>		<u>0755</u>							
<u>4</u>		<u>FP-2 (0-3)-011515</u>		<u>0850</u>							
<u>5</u>		<u>FP-2 (0-3)-011515 D</u>		<u>0850</u>							
<u>6</u>		<u>FP-1 (0-3)-011515</u>		<u>0900</u>							
<u>7</u>		<u>RS-1 (0-3)-011515</u>		<u>0920</u>							
<u>8</u>		<u>AG-2 (0-3)-011515</u>		<u>0955</u>							
<u>9</u>		<u>AG-1 (0-3)-011515</u>		<u>1010</u>							
<u>10</u>		<u>C 28-1 (0-3)-011515</u>		<u>1020</u>							

Turnaround Time Required (Business Days)

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

Requested Due Date

Sample Disposal

Return to Client

Disposal by Lab

Archive for _____ Months

(A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>Matthew</u>	Company <u>Weston</u>	Date <u>1/15/15</u>	Time <u>1500</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>1/15/15</u>	Time <u>1500</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>1/15/15</u>	Time <u>1655</u>	Received By <u>[Signature]</u>	Company <u>TA-CRT</u>	Date <u>1/16/15</u>	Time <u>0725</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:

1.10.1.835

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

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

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

Chain of Custody Record

Lab Job #: 500-90849
 Chain of Custody Number:
 Page 2 of 3
 Temperature °C of Cooler:

Client		Client Project #		Preservative		Parameter		Preservative Key			
Weston				7	7	7	7	7	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			
IDOT 001		IL				M. Strow		D. Wright			
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs	SVOCs		Total Metals	TELP/SPLP Metals
11		C27-2(0-3)-011515	1/15/15	1040	2	S	X	X	X	X	X
12		C27-2(0-3)-011515D		1040							
13		C27-1(0-3)-011515		1050							
14		V26-2(0-3)-011515		1105							
15		V26-1(0-3)-011515		1115							
16		W-1(0-3)-011515		1150							
17		W-2(0-3)-011515		1200							
18		W-3(0-3)-011515		1210							
19		W-4(0-3)-011515		1225							
20		W-5(0-3)-011515		1240							

Turnaround Time Required (Business Days)

1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Standard 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>1/15/15</u> Time: <u>1500</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>1/15/15</u> Time: <u>1500</u>
Relinquished By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>1/15/15</u> Time: <u>1655</u>	Received By: <u>[Signature]</u> Company: <u>TA-CHT</u> Date: <u>1/16/15</u> Time: <u>0725</u>
Relinquished By:	Received By:

Lab Courier: [Signature]
 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: 500-90850-1
Client Project/Site: IDOT - Lake County - WO 001

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

Attn: Mr. S. Babusukumar



Authorized for release by:
1/23/2015 10:43:42 AM

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

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www.testamericainc.com

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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 - Lake County - WO 001

TestAmerica Job ID: 500-90850-1

Client Sample ID: W-6(0-3)-011515

Lab Sample ID: 500-90850-1

Date Collected: 01/15/15 12:50

Matrix: Solid

Date Received: 01/16/15 07:25

Percent Solids: 88.1

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	37		5.7	2.5	ug/Kg	☼		01/20/15 11:47	1
Benzene	<5.7		5.7	0.78	ug/Kg	☼		01/20/15 11:47	1
Bromodichloromethane	<5.7		5.7	0.98	ug/Kg	☼		01/20/15 11:47	1
Bromoform	<5.7		5.7	1.3	ug/Kg	☼		01/20/15 11:47	1
Bromomethane	<5.7		5.7	1.7	ug/Kg	☼		01/20/15 11:47	1
Carbon disulfide	<5.7		5.7	0.85	ug/Kg	☼		01/20/15 11:47	1
Carbon tetrachloride	<5.7		5.7	1.0	ug/Kg	☼		01/20/15 11:47	1
Chlorobenzene	<5.7		5.7	0.58	ug/Kg	☼		01/20/15 11:47	1
Chloroethane	<5.7		5.7	1.5	ug/Kg	☼		01/20/15 11:47	1
Chloroform	<5.7		5.7	0.65	ug/Kg	☼		01/20/15 11:47	1
Chloromethane	<5.7		5.7	1.2	ug/Kg	☼		01/20/15 11:47	1
cis-1,2-Dichloroethene	<5.7		5.7	0.80	ug/Kg	☼		01/20/15 11:47	1
cis-1,3-Dichloropropene	<5.7		5.7	0.74	ug/Kg	☼		01/20/15 11:47	1
Dibromochloromethane	<5.7		5.7	0.99	ug/Kg	☼		01/20/15 11:47	1
1,1-Dichloroethane	<5.7		5.7	0.90	ug/Kg	☼		01/20/15 11:47	1
1,2-Dichloroethane	<5.7		5.7	0.84	ug/Kg	☼		01/20/15 11:47	1
1,1-Dichloroethene	<5.7		5.7	0.92	ug/Kg	☼		01/20/15 11:47	1
1,2-Dichloropropane	<5.7		5.7	0.86	ug/Kg	☼		01/20/15 11:47	1
1,3-Dichloropropene, Total	<5.7		5.7	0.74	ug/Kg	☼		01/20/15 11:47	1
Ethylbenzene	<5.7		5.7	1.1	ug/Kg	☼		01/20/15 11:47	1
2-Hexanone	<5.7		5.7	1.6	ug/Kg	☼		01/20/15 11:47	1
Methylene Chloride	<5.7		5.7	1.5	ug/Kg	☼		01/20/15 11:47	1
Methyl Ethyl Ketone	<5.7		5.7	2.1	ug/Kg	☼		01/20/15 11:47	1
methyl isobutyl ketone	<5.7		5.7	1.5	ug/Kg	☼		01/20/15 11:47	1
Methyl tert-butyl ether	<5.7		5.7	0.94	ug/Kg	☼		01/20/15 11:47	1
Styrene	<5.7		5.7	0.74	ug/Kg	☼		01/20/15 11:47	1
1,1,1,2-Tetrachloroethane	<5.7		5.7	1.1	ug/Kg	☼		01/20/15 11:47	1
Tetrachloroethene	<5.7		5.7	0.87	ug/Kg	☼		01/20/15 11:47	1
Toluene	<5.7		5.7	0.79	ug/Kg	☼		01/20/15 11:47	1
trans-1,2-Dichloroethene	<5.7		5.7	0.78	ug/Kg	☼		01/20/15 11:47	1
trans-1,3-Dichloropropene	<5.7		5.7	1.0	ug/Kg	☼		01/20/15 11:47	1
1,1,1-Trichloroethane	<5.7		5.7	0.85	ug/Kg	☼		01/20/15 11:47	1
1,1,2-Trichloroethane	<5.7		5.7	0.77	ug/Kg	☼		01/20/15 11:47	1
Trichloroethene	<5.7		5.7	0.94	ug/Kg	☼		01/20/15 11:47	1
Vinyl chloride	<5.7		5.7	1.2	ug/Kg	☼		01/20/15 11:47	1
Xylenes, Total	<11		11	0.51	ug/Kg	☼		01/20/15 11:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122		01/20/15 11:47	1
Dibromofluoromethane	104		75 - 120		01/20/15 11:47	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134		01/20/15 11:47	1
Toluene-d8 (Surr)	99		75 - 122		01/20/15 11:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	41	ug/Kg	☼	01/16/15 16:23	01/21/15 16:16	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	01/16/15 16:23	01/21/15 16:16	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	01/16/15 16:23	01/21/15 16:16	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	01/16/15 16:23	01/21/15 16:16	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	01/16/15 16:23	01/21/15 16:16	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90850-1

Client Sample ID: W-6(0-3)-011515

Lab Sample ID: 500-90850-1

Date Collected: 01/15/15 12:50

Matrix: Solid

Date Received: 01/16/15 07:25

Percent Solids: 88.1

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	86	ug/Kg	☼	01/16/15 16:23	01/21/15 16:16	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	01/16/15 16:23	01/21/15 16:16	1
2,4-Dichlorophenol	<370		370	89	ug/Kg	☼	01/16/15 16:23	01/21/15 16:16	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	01/16/15 16:23	01/21/15 16:16	1
2,4-Dinitrophenol	<760		760	660	ug/Kg	☼	01/16/15 16:23	01/21/15 16:16	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	01/16/15 16:23	01/21/15 16:16	1
2,6-Dinitrotoluene	<190		190	74	ug/Kg	☼	01/16/15 16:23	01/21/15 16:16	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	01/16/15 16:23	01/21/15 16:16	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	01/16/15 16:23	01/21/15 16:16	1
2-Methylnaphthalene	<37		37	6.9	ug/Kg	☼	01/16/15 16:23	01/21/15 16:16	1
2-Methylphenol	<190		190	60	ug/Kg	☼	01/16/15 16:23	01/21/15 16:16	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	01/16/15 16:23	01/21/15 16:16	1
2-Nitrophenol	<370		370	89	ug/Kg	☼	01/16/15 16:23	01/21/15 16:16	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	01/16/15 16:23	01/21/15 16:16	1
3,3'-Dichlorobenzidine	<190		190	53	ug/Kg	☼	01/16/15 16:23	01/21/15 16:16	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	01/16/15 16:23	01/21/15 16:16	1
4,6-Dinitro-2-methylphenol	<370		370	300	ug/Kg	☼	01/16/15 16:23	01/21/15 16:16	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	01/16/15 16:23	01/21/15 16:16	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	01/16/15 16:23	01/21/15 16:16	1
4-Chloroaniline	<760		760	180	ug/Kg	☼	01/16/15 16:23	01/21/15 16:16	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	01/16/15 16:23	01/21/15 16:16	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	01/16/15 16:23	01/21/15 16:16	1
4-Nitrophenol	<760		760	360	ug/Kg	☼	01/16/15 16:23	01/21/15 16:16	1
Acenaphthene	<37		37	6.8	ug/Kg	☼	01/16/15 16:23	01/21/15 16:16	1
Acenaphthylene	<37		37	5.0	ug/Kg	☼	01/16/15 16:23	01/21/15 16:16	1
Anthracene	<37		37	6.3	ug/Kg	☼	01/16/15 16:23	01/21/15 16:16	1
Benzo[a]anthracene	10 J		37	5.1	ug/Kg	☼	01/16/15 16:23	01/21/15 16:16	1
Benzo[a]pyrene	9.9 J		37	7.3	ug/Kg	☼	01/16/15 16:23	01/21/15 16:16	1
Benzo[b]fluoranthene	15 J		37	8.1	ug/Kg	☼	01/16/15 16:23	01/21/15 16:16	1
Benzo[g,h,i]perylene	13 J		37	12	ug/Kg	☼	01/16/15 16:23	01/21/15 16:16	1
Benzo[k]fluoranthene	<37		37	11	ug/Kg	☼	01/16/15 16:23	01/21/15 16:16	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	01/16/15 16:23	01/21/15 16:16	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	01/16/15 16:23	01/21/15 16:16	1
Bis(2-ethylhexyl) phthalate	<190		190	69	ug/Kg	☼	01/16/15 16:23	01/21/15 16:16	1
Butyl benzyl phthalate	<190		190	72	ug/Kg	☼	01/16/15 16:23	01/21/15 16:16	1
Carbazole	<190		190	97	ug/Kg	☼	01/16/15 16:23	01/21/15 16:16	1
Chrysene	12 J		37	10	ug/Kg	☼	01/16/15 16:23	01/21/15 16:16	1
Dibenz(a,h)anthracene	<37		37	7.3	ug/Kg	☼	01/16/15 16:23	01/21/15 16:16	1
Dibenzofuran	<190		190	44	ug/Kg	☼	01/16/15 16:23	01/21/15 16:16	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	01/16/15 16:23	01/21/15 16:16	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	01/16/15 16:23	01/21/15 16:16	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	01/16/15 16:23	01/21/15 16:16	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	01/16/15 16:23	01/21/15 16:16	1
Fluoranthene	15 J		37	7.0	ug/Kg	☼	01/16/15 16:23	01/21/15 16:16	1
Fluorene	<37		37	5.3	ug/Kg	☼	01/16/15 16:23	01/21/15 16:16	1
Hexachlorobenzene	<76		76	8.7	ug/Kg	☼	01/16/15 16:23	01/21/15 16:16	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	01/16/15 16:23	01/21/15 16:16	1
Hexachlorocyclopentadiene	<760		760	220	ug/Kg	☼	01/16/15 16:23	01/21/15 16:16	1
Hexachloroethane	<190		190	57	ug/Kg	☼	01/16/15 16:23	01/21/15 16:16	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90850-1

Client Sample ID: W-6(0-3)-011515

Lab Sample ID: 500-90850-1

Date Collected: 01/15/15 12:50

Matrix: Solid

Date Received: 01/16/15 07:25

Percent Solids: 88.1

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	<37		37	9.7	ug/Kg	☼	01/16/15 16:23	01/21/15 16:16	1
Isophorone	<190		190	42	ug/Kg	☼	01/16/15 16:23	01/21/15 16:16	1
Naphthalene	<37		37	5.8	ug/Kg	☼	01/16/15 16:23	01/21/15 16:16	1
Nitrobenzene	<37		37	9.4	ug/Kg	☼	01/16/15 16:23	01/21/15 16:16	1
N-Nitrosodi-n-propylamine	<190		190	46	ug/Kg	☼	01/16/15 16:23	01/21/15 16:16	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	01/16/15 16:23	01/21/15 16:16	1
Pentachlorophenol	<760		760	600	ug/Kg	☼	01/16/15 16:23	01/21/15 16:16	1
Phenanthrene	<37		37	5.2	ug/Kg	☼	01/16/15 16:23	01/21/15 16:16	1
Phenol	<190		190	84	ug/Kg	☼	01/16/15 16:23	01/21/15 16:16	1
Pyrene	16	J	37	7.5	ug/Kg	☼	01/16/15 16:23	01/21/15 16:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	49		35 - 137	01/16/15 16:23	01/21/15 16:16	1
2-Fluorobiphenyl	43		25 - 119	01/16/15 16:23	01/21/15 16:16	1
2-Fluorophenol	39		25 - 110	01/16/15 16:23	01/21/15 16:16	1
Nitrobenzene-d5	33		25 - 115	01/16/15 16:23	01/21/15 16:16	1
Phenol-d5	44		31 - 110	01/16/15 16:23	01/21/15 16:16	1
Terphenyl-d14	72		36 - 134	01/16/15 16:23	01/21/15 16:16	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		01/19/15 15:00	01/20/15 14:40	1
Barium	0.52		0.50	0.050	mg/L		01/19/15 15:00	01/20/15 14:40	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/19/15 15:00	01/20/15 14:40	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/19/15 15:00	01/20/15 14:40	1
Chromium	<0.025		0.025	0.010	mg/L		01/19/15 15:00	01/20/15 14:40	1
Cobalt	0.016	J	0.025	0.010	mg/L		01/19/15 15:00	01/20/15 14:40	1
Copper	<0.025		0.025	0.010	mg/L		01/19/15 15:00	01/20/15 14:40	1
Iron	<0.20		0.20	0.20	mg/L		01/19/15 15:00	01/20/15 14:40	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/19/15 15:00	01/20/15 14:40	1
Manganese	4.7		0.025	0.010	mg/L		01/19/15 15:00	01/20/15 14:40	1
Nickel	0.014	J	0.025	0.010	mg/L		01/19/15 15:00	01/20/15 14:40	1
Selenium	<0.050		0.050	0.020	mg/L		01/19/15 15:00	01/20/15 14:40	1
Silver	<0.025		0.025	0.010	mg/L		01/19/15 15:00	01/20/15 14:40	1
Zinc	0.026	J ^	0.10	0.020	mg/L		01/19/15 15:00	01/20/15 14:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.042	J	0.050	0.010	mg/L		01/20/15 14:30	01/22/15 04:40	1
Barium	0.44	J	0.50	0.050	mg/L		01/20/15 14:30	01/22/15 04:40	1
Beryllium	0.0048		0.0040	0.0040	mg/L		01/20/15 14:30	01/22/15 04:40	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/20/15 14:30	01/22/15 04:40	1
Chromium	0.11		0.025	0.010	mg/L		01/20/15 14:30	01/22/15 04:40	1
Cobalt	0.044		0.025	0.010	mg/L		01/20/15 14:30	01/22/15 04:40	1
Copper	0.22		0.025	0.010	mg/L		01/20/15 14:30	01/22/15 04:40	1
Iron	110		0.20	0.20	mg/L		01/20/15 14:30	01/22/15 04:40	1
Lead	0.11		0.0075	0.0075	mg/L		01/20/15 14:30	01/22/15 04:40	1
Manganese	1.6		0.025	0.010	mg/L		01/20/15 14:30	01/22/15 04:40	1
Nickel	0.13		0.025	0.010	mg/L		01/20/15 14:30	01/22/15 04:40	1
Selenium	<0.050		0.050	0.020	mg/L		01/20/15 14:30	01/22/15 04:40	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90850-1

Client Sample ID: W-6(0-3)-011515

Lab Sample ID: 500-90850-1

Date Collected: 01/15/15 12:50

Matrix: Solid

Date Received: 01/16/15 07:25

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		01/20/15 14:30	01/22/15 04:40	1
Zinc	0.43		0.10	0.020	mg/L		01/20/15 14:30	01/22/15 04:40	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.44	J	1.1	0.22	mg/Kg	☼	01/19/15 10:30	01/19/15 22:36	1
Arsenic	6.2		0.53	0.24	mg/Kg	☼	01/19/15 10:30	01/19/15 22:36	1
Barium	49		0.53	0.096	mg/Kg	☼	01/19/15 10:30	01/19/15 22:36	1
Beryllium	0.57		0.21	0.046	mg/Kg	☼	01/19/15 10:30	01/19/15 22:36	1
Cadmium	0.26		0.11	0.030	mg/Kg	☼	01/19/15 10:30	01/19/15 22:36	1
Calcium	74000		110	34	mg/Kg	☼	01/19/15 10:30	01/20/15 13:14	10
Chromium	14		0.53	0.090	mg/Kg	☼	01/19/15 10:30	01/19/15 22:36	1
Cobalt	11		0.26	0.059	mg/Kg	☼	01/19/15 10:30	01/19/15 22:36	1
Copper	21		0.53	0.11	mg/Kg	☼	01/19/15 10:30	01/19/15 22:36	1
Iron	17000	B	11	4.1	mg/Kg	☼	01/19/15 10:30	01/19/15 22:36	1
Lead	39		0.26	0.13	mg/Kg	☼	01/19/15 10:30	01/19/15 22:36	1
Magnesium	29000		5.3	2.1	mg/Kg	☼	01/19/15 10:30	01/19/15 22:36	1
Manganese	460		0.53	0.10	mg/Kg	☼	01/19/15 10:30	01/19/15 22:36	1
Nickel	26		0.53	0.14	mg/Kg	☼	01/19/15 10:30	01/19/15 22:36	1
Potassium	1900		26	4.3	mg/Kg	☼	01/19/15 10:30	01/19/15 22:36	1
Selenium	0.37	J	0.53	0.26	mg/Kg	☼	01/19/15 10:30	01/19/15 22:36	1
Silver	<0.26		0.26	0.062	mg/Kg	☼	01/19/15 10:30	01/19/15 22:36	1
Sodium	1500	B	53	6.9	mg/Kg	☼	01/19/15 10:30	01/19/15 22:36	1
Thallium	0.45	J	0.53	0.26	mg/Kg	☼	01/19/15 10:30	01/19/15 22:36	1
Vanadium	21		0.26	0.077	mg/Kg	☼	01/19/15 10:30	01/19/15 22:36	1
Zinc	88	B	1.1	0.33	mg/Kg	☼	01/19/15 10:30	01/20/15 13:09	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		01/19/15 11:30	01/20/15 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		01/21/15 11:30	01/22/15 11:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	19		18	6.4	ug/Kg	☼	01/16/15 13:00	01/19/15 10:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.59		0.200	0.200	SU			01/21/15 09:10	1

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90850-1

Client Sample ID: W-6(0-3)-011515D

Lab Sample ID: 500-90850-2

Date Collected: 01/15/15 12:50

Matrix: Solid

Date Received: 01/16/15 07:25

Percent Solids: 87.0

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	43		5.7	2.5	ug/Kg	☼		01/20/15 12:12	1
Benzene	<5.7		5.7	0.79	ug/Kg	☼		01/20/15 12:12	1
Bromodichloromethane	<5.7		5.7	0.99	ug/Kg	☼		01/20/15 12:12	1
Bromoform	<5.7		5.7	1.3	ug/Kg	☼		01/20/15 12:12	1
Bromomethane	<5.7		5.7	1.7	ug/Kg	☼		01/20/15 12:12	1
Carbon disulfide	<5.7		5.7	0.86	ug/Kg	☼		01/20/15 12:12	1
Carbon tetrachloride	<5.7		5.7	1.0	ug/Kg	☼		01/20/15 12:12	1
Chlorobenzene	<5.7		5.7	0.58	ug/Kg	☼		01/20/15 12:12	1
Chloroethane	<5.7		5.7	1.6	ug/Kg	☼		01/20/15 12:12	1
Chloroform	<5.7		5.7	0.66	ug/Kg	☼		01/20/15 12:12	1
Chloromethane	<5.7		5.7	1.2	ug/Kg	☼		01/20/15 12:12	1
cis-1,2-Dichloroethene	<5.7		5.7	0.81	ug/Kg	☼		01/20/15 12:12	1
cis-1,3-Dichloropropene	<5.7		5.7	0.75	ug/Kg	☼		01/20/15 12:12	1
Dibromochloromethane	<5.7		5.7	1.0	ug/Kg	☼		01/20/15 12:12	1
1,1-Dichloroethane	<5.7		5.7	0.91	ug/Kg	☼		01/20/15 12:12	1
1,2-Dichloroethane	<5.7		5.7	0.85	ug/Kg	☼		01/20/15 12:12	1
1,1,1-Dichloroethane	<5.7		5.7	0.93	ug/Kg	☼		01/20/15 12:12	1
1,2-Dichloropropane	<5.7		5.7	0.87	ug/Kg	☼		01/20/15 12:12	1
1,3-Dichloropropene, Total	<5.7		5.7	0.75	ug/Kg	☼		01/20/15 12:12	1
Ethylbenzene	<5.7		5.7	1.2	ug/Kg	☼		01/20/15 12:12	1
2-Hexanone	<5.7		5.7	1.7	ug/Kg	☼		01/20/15 12:12	1
Methylene Chloride	<5.7		5.7	1.6	ug/Kg	☼		01/20/15 12:12	1
Methyl Ethyl Ketone	<5.7		5.7	2.1	ug/Kg	☼		01/20/15 12:12	1
methyl isobutyl ketone	<5.7		5.7	1.5	ug/Kg	☼		01/20/15 12:12	1
Methyl tert-butyl ether	<5.7		5.7	0.95	ug/Kg	☼		01/20/15 12:12	1
Styrene	<5.7		5.7	0.75	ug/Kg	☼		01/20/15 12:12	1
1,1,1,2-Tetrachloroethane	<5.7		5.7	1.2	ug/Kg	☼		01/20/15 12:12	1
Tetrachloroethene	<5.7		5.7	0.88	ug/Kg	☼		01/20/15 12:12	1
Toluene	<5.7		5.7	0.80	ug/Kg	☼		01/20/15 12:12	1
trans-1,2-Dichloroethene	<5.7		5.7	0.79	ug/Kg	☼		01/20/15 12:12	1
trans-1,3-Dichloropropene	<5.7		5.7	1.0	ug/Kg	☼		01/20/15 12:12	1
1,1,1-Trichloroethane	<5.7		5.7	0.86	ug/Kg	☼		01/20/15 12:12	1
1,1,2-Trichloroethane	<5.7		5.7	0.78	ug/Kg	☼		01/20/15 12:12	1
Trichloroethene	<5.7		5.7	0.95	ug/Kg	☼		01/20/15 12:12	1
Vinyl chloride	<5.7		5.7	1.2	ug/Kg	☼		01/20/15 12:12	1
Xylenes, Total	<11		11	0.52	ug/Kg	☼		01/20/15 12:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122		01/20/15 12:12	1
Dibromofluoromethane	102		75 - 120		01/20/15 12:12	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134		01/20/15 12:12	1
Toluene-d8 (Surr)	97		75 - 122		01/20/15 12:12	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	☼	01/16/15 16:23	01/21/15 13:15	1
1,2-Dichlorobenzene	<190		190	44	ug/Kg	☼	01/16/15 16:23	01/21/15 13:15	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	01/16/15 16:23	01/21/15 13:15	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	01/16/15 16:23	01/21/15 13:15	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	01/16/15 16:23	01/21/15 13:15	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90850-1

Client Sample ID: W-6(0-3)-011515D

Lab Sample ID: 500-90850-2

Date Collected: 01/15/15 12:50

Matrix: Solid

Date Received: 01/16/15 07:25

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	<370		370	85	ug/Kg	☼	01/16/15 16:23	01/21/15 13:15	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	01/16/15 16:23	01/21/15 13:15	1
2,4-Dichlorophenol	<370		370	88	ug/Kg	☼	01/16/15 16:23	01/21/15 13:15	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	01/16/15 16:23	01/21/15 13:15	1
2,4-Dinitrophenol	<750		750	650	ug/Kg	☼	01/16/15 16:23	01/21/15 13:15	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	01/16/15 16:23	01/21/15 13:15	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	01/16/15 16:23	01/21/15 13:15	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	01/16/15 16:23	01/21/15 13:15	1
2-Chlorophenol	<190		190	63	ug/Kg	☼	01/16/15 16:23	01/21/15 13:15	1
2-Methylnaphthalene	<37		37	6.8	ug/Kg	☼	01/16/15 16:23	01/21/15 13:15	1
2-Methylphenol	<190		190	60	ug/Kg	☼	01/16/15 16:23	01/21/15 13:15	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	01/16/15 16:23	01/21/15 13:15	1
2-Nitrophenol	<370		370	88	ug/Kg	☼	01/16/15 16:23	01/21/15 13:15	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	01/16/15 16:23	01/21/15 13:15	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	01/16/15 16:23	01/21/15 13:15	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	01/16/15 16:23	01/21/15 13:15	1
4,6-Dinitro-2-methylphenol	<370		370	300	ug/Kg	☼	01/16/15 16:23	01/21/15 13:15	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	01/16/15 16:23	01/21/15 13:15	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	01/16/15 16:23	01/21/15 13:15	1
4-Chloroaniline	<750		750	170	ug/Kg	☼	01/16/15 16:23	01/21/15 13:15	1
4-Chlorophenyl phenyl ether	<190		190	43	ug/Kg	☼	01/16/15 16:23	01/21/15 13:15	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	01/16/15 16:23	01/21/15 13:15	1
4-Nitrophenol	<750		750	350	ug/Kg	☼	01/16/15 16:23	01/21/15 13:15	1
Acenaphthene	<37		37	6.7	ug/Kg	☼	01/16/15 16:23	01/21/15 13:15	1
Acenaphthylene	<37		37	4.9	ug/Kg	☼	01/16/15 16:23	01/21/15 13:15	1
Anthracene	<37		37	6.2	ug/Kg	☼	01/16/15 16:23	01/21/15 13:15	1
Benzo[a]anthracene	7.5 J		37	5.0	ug/Kg	☼	01/16/15 16:23	01/21/15 13:15	1
Benzo[a]pyrene	7.8 J		37	7.2	ug/Kg	☼	01/16/15 16:23	01/21/15 13:15	1
Benzo[b]fluoranthene	12 J		37	8.0	ug/Kg	☼	01/16/15 16:23	01/21/15 13:15	1
Benzo[g,h,i]perylene	<37		37	12	ug/Kg	☼	01/16/15 16:23	01/21/15 13:15	1
Benzo[k]fluoranthene	<37		37	11	ug/Kg	☼	01/16/15 16:23	01/21/15 13:15	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	01/16/15 16:23	01/21/15 13:15	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	01/16/15 16:23	01/21/15 13:15	1
Bis(2-ethylhexyl) phthalate	<190		190	68	ug/Kg	☼	01/16/15 16:23	01/21/15 13:15	1
Butyl benzyl phthalate	<190		190	71	ug/Kg	☼	01/16/15 16:23	01/21/15 13:15	1
Carbazole	<190		190	96	ug/Kg	☼	01/16/15 16:23	01/21/15 13:15	1
Chrysene	<37		37	10	ug/Kg	☼	01/16/15 16:23	01/21/15 13:15	1
Dibenz(a,h)anthracene	<37		37	7.2	ug/Kg	☼	01/16/15 16:23	01/21/15 13:15	1
Dibenzofuran	<190		190	43	ug/Kg	☼	01/16/15 16:23	01/21/15 13:15	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	01/16/15 16:23	01/21/15 13:15	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	01/16/15 16:23	01/21/15 13:15	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	01/16/15 16:23	01/21/15 13:15	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	01/16/15 16:23	01/21/15 13:15	1
Fluoranthene	14 J		37	6.9	ug/Kg	☼	01/16/15 16:23	01/21/15 13:15	1
Fluorene	<37		37	5.2	ug/Kg	☼	01/16/15 16:23	01/21/15 13:15	1
Hexachlorobenzene	<75		75	8.6	ug/Kg	☼	01/16/15 16:23	01/21/15 13:15	1
Hexachlorobutadiene	<190		190	58	ug/Kg	☼	01/16/15 16:23	01/21/15 13:15	1
Hexachlorocyclopentadiene	<750		750	210	ug/Kg	☼	01/16/15 16:23	01/21/15 13:15	1
Hexachloroethane	<190		190	56	ug/Kg	☼	01/16/15 16:23	01/21/15 13:15	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90850-1

Client Sample ID: W-6(0-3)-011515D

Lab Sample ID: 500-90850-2

Date Collected: 01/15/15 12:50

Matrix: Solid

Date Received: 01/16/15 07:25

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	<37		37	9.6	ug/Kg	☼	01/16/15 16:23	01/21/15 13:15	1
Isophorone	<190		190	42	ug/Kg	☼	01/16/15 16:23	01/21/15 13:15	1
Naphthalene	<37		37	5.7	ug/Kg	☼	01/16/15 16:23	01/21/15 13:15	1
Nitrobenzene	<37		37	9.3	ug/Kg	☼	01/16/15 16:23	01/21/15 13:15	1
N-Nitrosodi-n-propylamine	<190		190	45	ug/Kg	☼	01/16/15 16:23	01/21/15 13:15	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	01/16/15 16:23	01/21/15 13:15	1
Pentachlorophenol	<750		750	600	ug/Kg	☼	01/16/15 16:23	01/21/15 13:15	1
Phenanthrene	7.3	J	37	5.2	ug/Kg	☼	01/16/15 16:23	01/21/15 13:15	1
Phenol	<190		190	82	ug/Kg	☼	01/16/15 16:23	01/21/15 13:15	1
Pyrene	10	J	37	7.4	ug/Kg	☼	01/16/15 16:23	01/21/15 13:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	49		35 - 137				01/16/15 16:23	01/21/15 13:15	1
2-Fluorobiphenyl	44		25 - 119				01/16/15 16:23	01/21/15 13:15	1
2-Fluorophenol	40		25 - 110				01/16/15 16:23	01/21/15 13:15	1
Nitrobenzene-d5	37		25 - 115				01/16/15 16:23	01/21/15 13:15	1
Phenol-d5	46		31 - 110				01/16/15 16:23	01/21/15 13:15	1
Terphenyl-d14	52		36 - 134				01/16/15 16:23	01/21/15 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		01/19/15 15:00	01/20/15 14:46	1
Barium	0.55		0.50	0.050	mg/L		01/19/15 15:00	01/20/15 14:46	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/19/15 15:00	01/20/15 14:46	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/19/15 15:00	01/20/15 14:46	1
Chromium	<0.025		0.025	0.010	mg/L		01/19/15 15:00	01/20/15 14:46	1
Cobalt	0.017	J	0.025	0.010	mg/L		01/19/15 15:00	01/20/15 14:46	1
Copper	0.066		0.025	0.010	mg/L		01/19/15 15:00	01/20/15 14:46	1
Iron	<0.20		0.20	0.20	mg/L		01/19/15 15:00	01/20/15 14:46	1
Lead	0.0090		0.0075	0.0075	mg/L		01/19/15 15:00	01/20/15 14:46	1
Manganese	5.6		0.025	0.010	mg/L		01/19/15 15:00	01/20/15 14:46	1
Nickel	0.015	J	0.025	0.010	mg/L		01/19/15 15:00	01/20/15 14:46	1
Selenium	<0.050		0.050	0.020	mg/L		01/19/15 15:00	01/20/15 14:46	1
Silver	<0.025		0.025	0.010	mg/L		01/19/15 15:00	01/20/15 14:46	1
Zinc	0.054	J ^	0.10	0.020	mg/L		01/19/15 15:00	01/20/15 14:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.045	J	0.050	0.010	mg/L		01/20/15 14:30	01/22/15 04:47	1
Barium	0.50		0.50	0.050	mg/L		01/20/15 14:30	01/22/15 04:47	1
Beryllium	0.0057		0.0040	0.0040	mg/L		01/20/15 14:30	01/22/15 04:47	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/20/15 14:30	01/22/15 04:47	1
Chromium	0.14		0.025	0.010	mg/L		01/20/15 14:30	01/22/15 04:47	1
Cobalt	0.049		0.025	0.010	mg/L		01/20/15 14:30	01/22/15 04:47	1
Copper	0.18		0.025	0.010	mg/L		01/20/15 14:30	01/22/15 04:47	1
Iron	130		0.20	0.20	mg/L		01/20/15 14:30	01/22/15 04:47	1
Lead	0.11		0.0075	0.0075	mg/L		01/20/15 14:30	01/22/15 04:47	1
Manganese	1.7		0.025	0.010	mg/L		01/20/15 14:30	01/22/15 04:47	1
Nickel	0.15		0.025	0.010	mg/L		01/20/15 14:30	01/22/15 04:47	1
Selenium	<0.050		0.050	0.020	mg/L		01/20/15 14:30	01/22/15 04:47	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90850-1

Client Sample ID: W-6(0-3)-011515D

Lab Sample ID: 500-90850-2

Date Collected: 01/15/15 12:50

Matrix: Solid

Date Received: 01/16/15 07:25

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		01/20/15 14:30	01/22/15 04:47	1
Zinc	0.45		0.10	0.020	mg/L		01/20/15 14:30	01/22/15 04:47	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.41	J	1.1	0.23	mg/Kg	☼	01/19/15 10:30	01/19/15 22:41	1
Arsenic	6.0		0.55	0.26	mg/Kg	☼	01/19/15 10:30	01/19/15 22:41	1
Barium	64		0.55	0.10	mg/Kg	☼	01/19/15 10:30	01/19/15 22:41	1
Beryllium	0.65		0.22	0.048	mg/Kg	☼	01/19/15 10:30	01/19/15 22:41	1
Cadmium	0.23		0.11	0.032	mg/Kg	☼	01/19/15 10:30	01/19/15 22:41	1
Calcium	62000		110	36	mg/Kg	☼	01/19/15 10:30	01/20/15 13:30	10
Chromium	16		0.55	0.095	mg/Kg	☼	01/19/15 10:30	01/19/15 22:41	1
Cobalt	11		0.28	0.062	mg/Kg	☼	01/19/15 10:30	01/19/15 22:41	1
Copper	20		0.55	0.12	mg/Kg	☼	01/19/15 10:30	01/19/15 22:41	1
Iron	18000	B	11	4.3	mg/Kg	☼	01/19/15 10:30	01/19/15 22:41	1
Lead	34		0.28	0.14	mg/Kg	☼	01/19/15 10:30	01/19/15 22:41	1
Magnesium	25000		5.5	2.2	mg/Kg	☼	01/19/15 10:30	01/19/15 22:41	1
Manganese	490		0.55	0.11	mg/Kg	☼	01/19/15 10:30	01/19/15 22:41	1
Nickel	28		0.55	0.15	mg/Kg	☼	01/19/15 10:30	01/19/15 22:41	1
Potassium	2100		28	4.5	mg/Kg	☼	01/19/15 10:30	01/19/15 22:41	1
Selenium	0.61		0.55	0.27	mg/Kg	☼	01/19/15 10:30	01/19/15 22:41	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	01/19/15 10:30	01/19/15 22:41	1
Sodium	1700	B	55	7.3	mg/Kg	☼	01/19/15 10:30	01/19/15 22:41	1
Thallium	0.34	J	0.55	0.27	mg/Kg	☼	01/19/15 10:30	01/19/15 22:41	1
Vanadium	22		0.28	0.081	mg/Kg	☼	01/19/15 10:30	01/19/15 22:41	1
Zinc	82	B	1.1	0.35	mg/Kg	☼	01/19/15 10:30	01/20/15 13:25	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		01/19/15 11:30	01/20/15 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		01/21/15 11:30	01/22/15 11:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	31		18	6.4	ug/Kg	☼	01/16/15 13:00	01/19/15 10:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.70		0.200	0.200	SU			01/21/15 09:26	1

Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90850-1

Qualifiers

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.
F1	MS and/or MSD Recovery exceeds the control limits
F2	MS/MSD RPD exceeds control limits
X	Surrogate is outside control limits

Metals

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90850-1

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-15

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

Analysis Method	Prep Method	Matrix	Analyte
7470A	7470A	Solid	Mercury
8260B		Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

TestAmerica

THE LEADER IN ENVIRONMENTAL

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



500-90850 COC

Report To (optional)
Contact: S. Babusukumar
Company: Weston Solutions
Address: 300 Plaza Circle Ste 202
Address: Mundelein, IL 60060
Phone: (815) 224-1224
Fax: (224) 864-7200
E-Mail:

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

Chain of Custody Record

Lab Job #: 500-90850
Chain of Custody Number:
Page 3 of 3
Temperature °C of Cooler: 3.1, 3.5

Client		Client Project #		Preservative		Parameter		Preservative Key			
Weston				7	7	7	7	7	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 #		VOCs		SVOCs		Total Metals			
IDOT 001								TEMP/SPLP Metals			
Project Location/State		Lab Project #		PH							
IL											
Sampler		Lab PM									
M. Strow		D. Wright									
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix				Comments	
1		W-6(0-3)-011515	1/15/15	1250	2	S	X	X	X	X	
2		W-6(0-3)-011515D		1250							
3		OT-1(0-3)-011515		1310							
4		A45-1(0-3)-011515		1330							
A43-1(0-3)-011515											
5		A41-4(0-3)-011515		1355							
6		A41-3(0-3)-011515		1405							
7		A41-2(0-3)-011515		1410							
8		A41-1(0-3)-011515		1420							
9		ROW-3(0-3)-011515		1435							

~~MA NOT INCLUDED MA~~

Turnaround Time Required (Business Days)

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

Standard

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>Weston</u> Company <u>M. Strow</u>	Date <u>1/15/15</u>	Time <u>1500</u>	Received By <u>[Signature]</u> Company <u>TA</u>	Date <u>1/15/15</u>	Time <u>1500</u>
Relinquished By <u>[Signature]</u> Company <u>TA</u>	Date <u>1/15/15</u>	Time <u>1655</u>	Received By <u>[Signature]</u> Company <u>TA-CHT</u>	Date <u>1/16/15</u>	Time <u>0725</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:



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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 346: US 41 from IL 21 to West Park Ave Office Phone Number, if available: _____

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

4181 to 4201 Grove Avenue

City: Gurnee State: IL Zip Code: _____

County: Lake Township: _____

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

Latitude: 42.37788061 Longitude: -87.90702238
(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: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

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

Project Name: FAP 346: US 41 from IL 21 to West Park AveLatitude: 42.37788061 Longitude: -87.90702238Uncontaminated Site Certification**III. Basis for Certification and Attachments**

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

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

LOCATION C28-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2668A-28. SEE FIGURE 3-3 AND TABLE 4-1 OF THE REVISED 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]:

TEST AMERICA ANALYTICAL REPORT - JOB ID: 500-90849-1

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

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

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

Company Name: Illinois Department of TransportationStreet Address: 2300 South Dirksen ParkwayCity: Springfield State: IL Zip Code: 62764Phone: 217-785-4246

Kurt T. Fischer P.G.

Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

2/9/15

Date:



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

Summary Table of ISGS Site No. 2668A-28
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 346: US Route 41 (Skokie Highway) from IL Route 21 to West Park Avenue
Gurnee, Park City, Waukegan, and North Chicago, Lake County, Illinois

Field Sample ID	C28-1(0-3)-011515	Soil Reference Concentrations^A
Sample Date	1/15/2015	
Location ID	C28-1	
Depth	0 - 3	
ISGS Site Number	2668A-28	
Parameter		
Laboratory pH (s.u.)	8.16	<6.25,>9.0
VOCs (ug/kg)		
Acetone	53	25000
Methyl ethyl ketone	9.8	---
SVOCs (ug/kg)		
Benzo(a)anthracene	28 J	900 / 1100 / 1800
Benzo(a)pyrene	36 J	90 / 1300 / 2100
Benzo(b)fluoranthene	56	900 / 1500 / 2100
Benzo(g,h,i)perylene	35 J	---
Benzo(k)fluoranthene	28 J	9000
Chrysene	38	88000
Dibenzo(a,h)anthracene	13 J	90 / 200 / 420
Fluoranthene	57	3100000
Indeno(1,2,3-cd)pyrene	27 J	900 / 900 / 1600
Phenanthrene	23 J	---
Pyrene	54	2300000
Total Metals (mg/kg)		
Antimony, Total	0.44 J	5
Arsenic, Total	6.7 J+	11.3 / 13
Barium, Total	67	1500
Beryllium, Total	0.65	22
Cadmium, Total	0.51 J-	5.2
Calcium, Total	27000 J	---
Chromium, Total	18 J+	21
Cobalt, Total	7.5 J-	20
Copper, Total	24 B	2900
Iron, Total	20000 J	15000 / 15900
Lead, Total	52 J	107
Magnesium, Total	16000 J+	325000
Manganese, Total	570 J	630 / 636
Mercury, Total	0.033 J+	0.89
Nickel, Total	19	100
Potassium, Total	2000 J+	---
Sodium, Total	2100	---
Thallium, Total	1.1 J-	2.6
Vanadium, Total	24	550
Zinc, Total	73 J	5100
TCLP Metals (mg/l)		
Barium, TCLP	0.35 J	2
Cobalt, TCLP	0.011 J	1
Copper, TCLP	0.01 J	0.65
Iron, TCLP	0.38	5
Manganese, TCLP	12	0.15
Zinc, TCLP	0.036 J	5
SPLP Metals (mg/l)		
Arsenic, SPLP	0.037 J	0.05
Barium, SPLP	0.5	2
Beryllium, SPLP	0.0054	0.004
Chromium, SPLP	0.14	0.1
Cobalt, SPLP	0.042	1
Copper, SPLP	0.22	0.65
Iron, SPLP	130 J+	5
Lead, SPLP	0.17	0.0075
Manganese, SPLP	2	0.15
Nickel, SPLP	0.13	0.1
Zinc, SPLP	0.44	5

Summary Table of ISGS Site No. 2668A-28
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 346: US Route 41 (Skokie Highway) from IL Route 21 to West Park Avenue
Gurnee, Park City, Waukegan, and North Chicago, Lake County, Illinois

Notes:

--- - not applicable or value not available.


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

B - Constituent detected in investigative and blank sample.

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: 500-90849-1
Client Project/Site: IDOT - Lake County - WO 001

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

Attn: Mr. S. Babusukumar



Authorized for release by:
1/27/2015 8:24:19 AM

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

LINKS

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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 - Lake County - WO 001

TestAmerica Job ID: 500-90849-1

Client Sample ID: C28-1(0-3)-011515

Lab Sample ID: 500-90849-10

Date Collected: 01/15/15 10:20

Matrix: Solid

Date Received: 01/16/15 07:25

Percent Solids: 86.0

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	53		5.8	2.5	ug/Kg	☼		01/20/15 15:37	1
Benzene	<5.8		5.8	0.80	ug/Kg	☼		01/20/15 15:37	1
Bromodichloromethane	<5.8		5.8	1.0	ug/Kg	☼		01/20/15 15:37	1
Bromoform	<5.8		5.8	1.3	ug/Kg	☼		01/20/15 15:37	1
Bromomethane	<5.8		5.8	1.8	ug/Kg	☼		01/20/15 15:37	1
Carbon disulfide	<5.8		5.8	0.87	ug/Kg	☼		01/20/15 15:37	1
Carbon tetrachloride	<5.8		5.8	1.1	ug/Kg	☼		01/20/15 15:37	1
Chlorobenzene	<5.8		5.8	0.59	ug/Kg	☼		01/20/15 15:37	1
Chloroethane	<5.8		5.8	1.6	ug/Kg	☼		01/20/15 15:37	1
Chloroform	<5.8		5.8	0.67	ug/Kg	☼		01/20/15 15:37	1
Chloromethane	<5.8		5.8	1.2	ug/Kg	☼		01/20/15 15:37	1
cis-1,2-Dichloroethene	<5.8		5.8	0.82	ug/Kg	☼		01/20/15 15:37	1
cis-1,3-Dichloropropene	<5.8		5.8	0.76	ug/Kg	☼		01/20/15 15:37	1
Dibromochloromethane	<5.8		5.8	1.0	ug/Kg	☼		01/20/15 15:37	1
1,1-Dichloroethane	<5.8		5.8	0.92	ug/Kg	☼		01/20/15 15:37	1
1,2-Dichloroethane	<5.8		5.8	0.86	ug/Kg	☼		01/20/15 15:37	1
1,1-Dichloroethene	<5.8		5.8	0.94	ug/Kg	☼		01/20/15 15:37	1
1,2-Dichloropropane	<5.8		5.8	0.88	ug/Kg	☼		01/20/15 15:37	1
1,3-Dichloropropene, Total	<5.8		5.8	0.76	ug/Kg	☼		01/20/15 15:37	1
Ethylbenzene	<5.8		5.8	1.2	ug/Kg	☼		01/20/15 15:37	1
2-Hexanone	<5.8		5.8	1.7	ug/Kg	☼		01/20/15 15:37	1
Methylene Chloride	<5.8		5.8	1.6	ug/Kg	☼		01/20/15 15:37	1
Methyl Ethyl Ketone	9.8		5.8	2.1	ug/Kg	☼		01/20/15 15:37	1
methyl isobutyl ketone	<5.8		5.8	1.5	ug/Kg	☼		01/20/15 15:37	1
Methyl tert-butyl ether	<5.8		5.8	0.96	ug/Kg	☼		01/20/15 15:37	1
Styrene	<5.8		5.8	0.76	ug/Kg	☼		01/20/15 15:37	1
1,1,1,2-Tetrachloroethane	<5.8		5.8	1.2	ug/Kg	☼		01/20/15 15:37	1
Tetrachloroethene	<5.8		5.8	0.89	ug/Kg	☼		01/20/15 15:37	1
Toluene	<5.8		5.8	0.81	ug/Kg	☼		01/20/15 15:37	1
trans-1,2-Dichloroethene	<5.8		5.8	0.80	ug/Kg	☼		01/20/15 15:37	1
trans-1,3-Dichloropropene	<5.8		5.8	1.0	ug/Kg	☼		01/20/15 15:37	1
1,1,1-Trichloroethane	<5.8		5.8	0.87	ug/Kg	☼		01/20/15 15:37	1
1,1,2-Trichloroethane	<5.8		5.8	0.79	ug/Kg	☼		01/20/15 15:37	1
Trichloroethene	<5.8		5.8	0.96	ug/Kg	☼		01/20/15 15:37	1
Vinyl chloride	<5.8		5.8	1.2	ug/Kg	☼		01/20/15 15:37	1
Xylenes, Total	<12		12	0.53	ug/Kg	☼		01/20/15 15:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122		01/20/15 15:37	1
Dibromofluoromethane	106		75 - 120		01/20/15 15:37	1
1,2-Dichloroethane-d4 (Surr)	114		70 - 134		01/20/15 15:37	1
Toluene-d8 (Surr)	96		75 - 122		01/20/15 15:37	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	☼	01/16/15 15:52	01/21/15 14:54	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	01/16/15 15:52	01/21/15 14:54	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	01/16/15 15:52	01/21/15 14:54	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	01/16/15 15:52	01/21/15 14:54	1
2,2'-oxybis[1-chloropropane]	<190		190	45	ug/Kg	☼	01/16/15 15:52	01/21/15 14:54	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90849-1

Client Sample ID: C28-1(0-3)-011515

Lab Sample ID: 500-90849-10

Date Collected: 01/15/15 10:20

Matrix: Solid

Date Received: 01/16/15 07:25

Percent Solids: 86.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<380		380	88	ug/Kg	☼	01/16/15 15:52	01/21/15 14:54	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	01/16/15 15:52	01/21/15 14:54	1
2,4-Dichlorophenol	<380		380	92	ug/Kg	☼	01/16/15 15:52	01/21/15 14:54	1
2,4-Dimethylphenol	<380		380	150	ug/Kg	☼	01/16/15 15:52	01/21/15 14:54	1
2,4-Dinitrophenol	<780	*	780	680	ug/Kg	☼	01/16/15 15:52	01/21/15 14:54	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	01/16/15 15:52	01/21/15 14:54	1
2,6-Dinitrotoluene	<190		190	76	ug/Kg	☼	01/16/15 15:52	01/21/15 14:54	1
2-Chloronaphthalene	<190		190	43	ug/Kg	☼	01/16/15 15:52	01/21/15 14:54	1
2-Chlorophenol	<190		190	66	ug/Kg	☼	01/16/15 15:52	01/21/15 14:54	1
2-Methylnaphthalene	<38		38	7.1	ug/Kg	☼	01/16/15 15:52	01/21/15 14:54	1
2-Methylphenol	<190		190	62	ug/Kg	☼	01/16/15 15:52	01/21/15 14:54	1
2-Nitroaniline	<190		190	52	ug/Kg	☼	01/16/15 15:52	01/21/15 14:54	1
2-Nitrophenol	<380		380	91	ug/Kg	☼	01/16/15 15:52	01/21/15 14:54	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	☼	01/16/15 15:52	01/21/15 14:54	1
3,3'-Dichlorobenzidine	<190		190	54	ug/Kg	☼	01/16/15 15:52	01/21/15 14:54	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	01/16/15 15:52	01/21/15 14:54	1
4,6-Dinitro-2-methylphenol	<380		380	310	ug/Kg	☼	01/16/15 15:52	01/21/15 14:54	1
4-Bromophenyl phenyl ether	<190		190	51	ug/Kg	☼	01/16/15 15:52	01/21/15 14:54	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	01/16/15 15:52	01/21/15 14:54	1
4-Chloroaniline	<780		780	180	ug/Kg	☼	01/16/15 15:52	01/21/15 14:54	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	01/16/15 15:52	01/21/15 14:54	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	01/16/15 15:52	01/21/15 14:54	1
4-Nitrophenol	<780		780	370	ug/Kg	☼	01/16/15 15:52	01/21/15 14:54	1
Acenaphthene	<38		38	6.9	ug/Kg	☼	01/16/15 15:52	01/21/15 14:54	1
Acenaphthylene	<38		38	5.1	ug/Kg	☼	01/16/15 15:52	01/21/15 14:54	1
Anthracene	<38		38	6.4	ug/Kg	☼	01/16/15 15:52	01/21/15 14:54	1
Benzo[a]anthracene	28	J	38	5.2	ug/Kg	☼	01/16/15 15:52	01/21/15 14:54	1
Benzo[a]pyrene	36	J	38	7.5	ug/Kg	☼	01/16/15 15:52	01/21/15 14:54	1
Benzo[b]fluoranthene	56		38	8.3	ug/Kg	☼	01/16/15 15:52	01/21/15 14:54	1
Benzo[g,h,i]perylene	35	J	38	12	ug/Kg	☼	01/16/15 15:52	01/21/15 14:54	1
Benzo[k]fluoranthene	28	J	38	11	ug/Kg	☼	01/16/15 15:52	01/21/15 14:54	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	01/16/15 15:52	01/21/15 14:54	1
Bis(2-chloroethyl)ether	<190		190	58	ug/Kg	☼	01/16/15 15:52	01/21/15 14:54	1
Bis(2-ethylhexyl) phthalate	<190		190	71	ug/Kg	☼	01/16/15 15:52	01/21/15 14:54	1
Butyl benzyl phthalate	<190		190	73	ug/Kg	☼	01/16/15 15:52	01/21/15 14:54	1
Carbazole	<190		190	100	ug/Kg	☼	01/16/15 15:52	01/21/15 14:54	1
Chrysene	38		38	11	ug/Kg	☼	01/16/15 15:52	01/21/15 14:54	1
Dibenz(a,h)anthracene	13	J	38	7.5	ug/Kg	☼	01/16/15 15:52	01/21/15 14:54	1
Dibenzofuran	<190		190	45	ug/Kg	☼	01/16/15 15:52	01/21/15 14:54	1
Diethyl phthalate	<190		190	65	ug/Kg	☼	01/16/15 15:52	01/21/15 14:54	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	01/16/15 15:52	01/21/15 14:54	1
Di-n-butyl phthalate	<190		190	59	ug/Kg	☼	01/16/15 15:52	01/21/15 14:54	1
Di-n-octyl phthalate	<190		190	63	ug/Kg	☼	01/16/15 15:52	01/21/15 14:54	1
Fluoranthene	57		38	7.2	ug/Kg	☼	01/16/15 15:52	01/21/15 14:54	1
Fluorene	<38		38	5.4	ug/Kg	☼	01/16/15 15:52	01/21/15 14:54	1
Hexachlorobenzene	<78		78	8.9	ug/Kg	☼	01/16/15 15:52	01/21/15 14:54	1
Hexachlorobutadiene	<190		190	61	ug/Kg	☼	01/16/15 15:52	01/21/15 14:54	1
Hexachlorocyclopentadiene	<780		780	220	ug/Kg	☼	01/16/15 15:52	01/21/15 14:54	1
Hexachloroethane	<190		190	59	ug/Kg	☼	01/16/15 15:52	01/21/15 14:54	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90849-1

Client Sample ID: C28-1(0-3)-011515

Lab Sample ID: 500-90849-10

Date Collected: 01/15/15 10:20

Matrix: Solid

Date Received: 01/16/15 07:25

Percent Solids: 86.0

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	27	J	38	10	ug/Kg	☼	01/16/15 15:52	01/21/15 14:54	1
Isophorone	<190		190	43	ug/Kg	☼	01/16/15 15:52	01/21/15 14:54	1
Naphthalene	<38		38	5.9	ug/Kg	☼	01/16/15 15:52	01/21/15 14:54	1
Nitrobenzene	<38		38	9.6	ug/Kg	☼	01/16/15 15:52	01/21/15 14:54	1
N-Nitrosodi-n-propylamine	<190		190	47	ug/Kg	☼	01/16/15 15:52	01/21/15 14:54	1
N-Nitrosodiphenylamine	<190		190	46	ug/Kg	☼	01/16/15 15:52	01/21/15 14:54	1
Pentachlorophenol	<780		780	620	ug/Kg	☼	01/16/15 15:52	01/21/15 14:54	1
Phenanthrene	23	J	38	5.4	ug/Kg	☼	01/16/15 15:52	01/21/15 14:54	1
Phenol	<190		190	86	ug/Kg	☼	01/16/15 15:52	01/21/15 14:54	1
Pyrene	54		38	7.7	ug/Kg	☼	01/16/15 15:52	01/21/15 14:54	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>2,4,6-Tribromophenol</i>	67		35 - 137				01/16/15 15:52	01/21/15 14:54	1
<i>2-Fluorobiphenyl</i>	42		25 - 119				01/16/15 15:52	01/21/15 14:54	1
<i>2-Fluorophenol</i>	52		25 - 110				01/16/15 15:52	01/21/15 14:54	1
<i>Nitrobenzene-d5</i>	43		25 - 115				01/16/15 15:52	01/21/15 14:54	1
<i>Phenol-d5</i>	47		31 - 110				01/16/15 15:52	01/21/15 14:54	1
<i>Terphenyl-d14</i>	74		36 - 134				01/16/15 15:52	01/21/15 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		01/19/15 08:00	01/21/15 19:24	1
Barium	0.35	J	0.50	0.050	mg/L		01/19/15 08:00	01/21/15 19:24	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/19/15 08:00	01/21/15 19:24	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/19/15 08:00	01/21/15 19:24	1
Chromium	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/21/15 19:24	1
Cobalt	0.011	J	0.025	0.010	mg/L		01/19/15 08:00	01/21/15 19:24	1
Copper	0.010	J	0.025	0.010	mg/L		01/19/15 08:00	01/21/15 19:24	1
Iron	0.38		0.20	0.20	mg/L		01/19/15 08:00	01/21/15 19:24	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/19/15 08:00	01/21/15 19:24	1
Manganese	12		0.025	0.010	mg/L		01/19/15 08:00	01/21/15 19:24	1
Nickel	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/21/15 19:24	1
Selenium	<0.050		0.050	0.020	mg/L		01/19/15 08:00	01/21/15 19:24	1
Silver	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/21/15 19:24	1
Zinc	0.036	J	0.10	0.020	mg/L		01/19/15 08:00	01/21/15 19:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.037	J	0.050	0.010	mg/L		01/20/15 08:30	01/21/15 14:37	1
Barium	0.50		0.50	0.050	mg/L		01/20/15 08:30	01/21/15 14:37	1
Beryllium	0.0054		0.0040	0.0040	mg/L		01/20/15 08:30	01/21/15 14:37	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/20/15 08:30	01/21/15 14:37	1
Chromium	0.14		0.025	0.010	mg/L		01/20/15 08:30	01/21/15 14:37	1
Cobalt	0.042		0.025	0.010	mg/L		01/20/15 08:30	01/21/15 14:37	1
Copper	0.22		0.025	0.010	mg/L		01/20/15 08:30	01/21/15 14:37	1
Iron	130		0.20	0.20	mg/L		01/20/15 08:30	01/21/15 14:37	1
Lead	0.17		0.0075	0.0075	mg/L		01/20/15 08:30	01/21/15 14:37	1
Manganese	2.0		0.025	0.010	mg/L		01/20/15 08:30	01/21/15 14:37	1
Nickel	0.13		0.025	0.010	mg/L		01/20/15 08:30	01/21/15 14:37	1
Selenium	<0.050		0.050	0.020	mg/L		01/20/15 08:30	01/21/15 14:37	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90849-1

Client Sample ID: C28-1(0-3)-011515

Lab Sample ID: 500-90849-10

Date Collected: 01/15/15 10:20

Matrix: Solid

Date Received: 01/16/15 07:25

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		01/20/15 08:30	01/21/15 14:37	1
Zinc	0.44		0.10	0.020	mg/L		01/20/15 08:30	01/21/15 14:37	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.44	J	1.1	0.24	mg/Kg	☼	01/18/15 16:30	01/20/15 15:28	1
Arsenic	6.7		0.57	0.27	mg/Kg	☼	01/18/15 16:30	01/20/15 15:28	1
Barium	67		0.57	0.11	mg/Kg	☼	01/18/15 16:30	01/20/15 15:28	1
Beryllium	0.65		0.23	0.050	mg/Kg	☼	01/18/15 16:30	01/20/15 15:28	1
Cadmium	0.51		0.11	0.033	mg/Kg	☼	01/18/15 16:30	01/20/15 15:28	1
Calcium	27000		11	3.7	mg/Kg	☼	01/18/15 16:30	01/20/15 15:28	1
Chromium	18		0.57	0.099	mg/Kg	☼	01/18/15 16:30	01/20/15 15:28	1
Cobalt	7.5		0.29	0.065	mg/Kg	☼	01/18/15 16:30	01/20/15 15:28	1
Copper	24	B	0.57	0.12	mg/Kg	☼	01/18/15 16:30	01/20/15 15:28	1
Iron	20000		11	4.4	mg/Kg	☼	01/18/15 16:30	01/20/15 15:28	1
Lead	52		0.29	0.14	mg/Kg	☼	01/18/15 16:30	01/20/15 15:28	1
Magnesium	16000		5.7	2.3	mg/Kg	☼	01/18/15 16:30	01/20/15 15:28	1
Manganese	570		0.57	0.11	mg/Kg	☼	01/18/15 16:30	01/20/15 15:28	1
Nickel	19		0.57	0.16	mg/Kg	☼	01/18/15 16:30	01/20/15 15:28	1
Potassium	2000		29	4.7	mg/Kg	☼	01/18/15 16:30	01/20/15 15:28	1
Selenium	<0.57		0.57	0.28	mg/Kg	☼	01/18/15 16:30	01/20/15 15:28	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	01/18/15 16:30	01/20/15 15:28	1
Sodium	2100		57	7.6	mg/Kg	☼	01/18/15 16:30	01/20/15 15:28	1
Thallium	1.1		0.57	0.28	mg/Kg	☼	01/18/15 16:30	01/20/15 15:28	1
Vanadium	24		0.29	0.084	mg/Kg	☼	01/18/15 16:30	01/20/15 15:28	1
Zinc	73	B	1.1	0.36	mg/Kg	☼	01/18/15 16:30	01/20/15 15:28	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		01/20/15 11:00	01/21/15 10:35	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		01/20/15 11:00	01/21/15 12:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	33		19	6.7	ug/Kg	☼	01/16/15 13:00	01/19/15 11:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.16		0.200	0.200	SU			01/19/15 13:53	1

Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90849-1

Qualifiers

GC/MS VOA

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

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
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
F1	MS and/or MSD Recovery exceeds the control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F2	MS/MSD RPD exceeds control 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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90849-1

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-15

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

Analysis Method	Prep Method	Matrix	Analyte
7470A	7470A	Solid	Mercury
8260B		Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

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

TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 61
Phone: 708.534.5200 Fax: 708.53



500-90849 COC

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

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

Chain of Custody Record

Lab Job #: 500-90849
Chain of Custody Number:
Page 1 of 3
Temperature °C of Cooler: 3.1, 3.5

Client		Client Project #		Preservative		7		7		7		7		7		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		Parameter		VOCs		SVOCs		Total Metals		TCLP/SLCP Metals		PH		
Sampler		Lab Project #		Matrix		S		S		S		S		S		
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix										
1		FP-5 (0-3)-011515	1/5/15	0835	2	S	X	X	X	X	X					
2		FP-4 (0-3)-011515		0750												
3		FP-3 (0-3)-011515		0755												
4		FP-2 (0-3)-011515		0850												
5		FP-2 (0-3)-011515 D		0850												
6		FP-1 (0-3)-011515		0900												
7		RS-1 (0-3)-011515		0920												
8		AG-2 (0-3)-011515		0955												
9		AG-1 (0-3)-011515		1010												
10		C 28-1 (0-3)-011515		1020												

Turnaround Time Required (Business Days)

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

Requested Due Date

Sample Disposal

Return to Client

Disposal by Lab

Archive for _____ Months

(A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: <u>Matthew</u> Company: <u>Weston</u> Date: <u>1/15/15</u> Time: <u>1500</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>1/15/15</u> Time: <u>1500</u>
Relinquished By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>1/15/15</u> Time: <u>1655</u>	Received By: <u>[Signature]</u> Company: <u>TA-CRT</u> Date: <u>1/16/15</u> Time: <u>0725</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:

1.10.1.035

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

Report To (optional)	Bill To (optional)
Contact: <u>S. Babusukumar</u>	Contact: _____
Company: <u>Weston Solutions</u>	Company: _____
Address: <u>300 Plaza Circle Ste 202</u>	Address: <u>SAME</u>
Address: <u>Mundelein IL 60060</u>	Address: _____
Phone: <u>(864)-224-7200</u>	Phone: _____
Fax: _____	Fax: _____
E-Mail: _____	PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-90849

Chain of Custody Number: _____

Page 2 of 3

Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter		Preservative Key		
<u>Weston</u>				<u>7</u>	<u>7</u>	<u>7</u>	<u>7</u>	<u>7</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		Comments		
<u>IDOT 001</u>				<u>VOCs</u>	<u>SVOCs</u>	<u>Total Metals</u>	<u>TELP/SPLP Metals</u>			
Project Location/State		Lab PM					<u>PH</u>			
<u>IL</u>		<u>D. Wright</u>								
Sampler		Lab PM		# of Containers		Matrix				
<u>M. Strow</u>		<u>D. Wright</u>								
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix				
<u>11</u>		<u>C27-2(0-3)-011515</u>	<u>1/15/15</u>	<u>1040</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>12</u>		<u>C27-2(0-3)-011515D</u>		<u>1040</u>						
<u>13</u>		<u>C27-1(0-3)-011515</u>		<u>1050</u>						
<u>14</u>		<u>V26-2(0-3)-011515</u>		<u>1105</u>						
<u>15</u>		<u>V26-1(0-3)-011515</u>		<u>1115</u>						
<u>16</u>		<u>W-1(0-3)-011515</u>		<u>1150</u>						
<u>17</u>		<u>W-2(0-3)-011515</u>		<u>1200</u>						
<u>18</u>		<u>W-3(0-3)-011515</u>		<u>1210</u>						
<u>19</u>		<u>W-4(0-3)-011515</u>		<u>1225</u>						
<u>20</u>		<u>W-5(0-3)-011515</u>		<u>1240</u>						

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

Requested Due Date _____

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

Relinquished By <u>M. Strow</u>	Company <u>Weston</u>	Date <u>1/15/15</u>	Time <u>1500</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>1/15/15</u>	Time <u>1500</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>1/15/15</u>	Time <u>1655</u>	Received By <u>[Signature]</u>	Company <u>TA-CHT</u>	Date <u>1/16/15</u>	Time <u>0725</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:



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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 346: US 41 from IL 21 to West Park Ave Office Phone Number, if available: _____

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

1207 N. Skokie Highway (US 41)

City: Gurnee State: IL Zip Code: _____

County: Lake Township: _____

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

Latitude: 42.37753295 Longitude: -87.90522642
(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: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

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

Project Name: FAP 346: US 41 from IL 21 to West Park Ave

Latitude: 42.37753295 Longitude: -87.90522642

Uncontaminated Site Certification

III. Basis for Certification and Attachments

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

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

LOCATIONS AG-1 AND AG-2 WERE SAMPLED ADJACENT TO ISGS SITE No. 2668A-29. SEE FIGURE 3-3 AND TABLE 4-1 OF THE REVISED 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]:

TEST AMERICA ANALYTICAL REPORT - JOB ID: 500-90849-1

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

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

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

Company Name: Illinois Department of Transportation


Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Kurt T. Fischer P.G.

Printed Name:



2/9/15

Date:



Licensed Professional Engineer or Licensed Professional Geologist Signature:

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

Summary Table of ISGS Site No. 2668A-29
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 346: US Route 41 (Skokie Highway) from IL Route 21 to West Park Avenue
Gurnee, Park City, Waukegan, and North Chicago, Lake County, Illinois

Field Sample ID	AG-1(0-3)-011515	AG-2(0-3)-011515	Soil Reference Concentrations ^A
Sample Date	1/15/2015	1/15/2015	
Location ID	AG-1	AG-2	
Depth	0 - 3	0 - 3	
ISGS Site Number	2668A-29	2668A-29	
Parameter			
Laboratory pH (s.u.)	8.7	8.19	<6.25,>9.0
VOCs (ug/kg)			
Acetone	40	6.4	25000
Methyl ethyl ketone	5.8 J	ND	---
SVOCs (ug/kg)			
Benzo(a)pyrene	10 J	ND	90 / 1300 / 2100
Benzo(b)fluoranthene	17 J	ND	900 / 1500 / 2100
Benzo(g,h,i)perylene	13 J	ND	---
Chrysene	14 J	ND	88000
Fluoranthene	11 J	ND	3100000
Indeno(1,2,3-cd)pyrene	10 J	ND	900 / 900 / 1600
Pyrene	13 J	ND	2300000
Total Metals (mg/kg)			
Antimony, Total	0.4 J	ND	5
Arsenic, Total	5.7 J+	6.4 J+	11.3 / 13
Barium, Total	70	30	1500
Beryllium, Total	1	0.5	22
Cadmium, Total	0.34 J-	0.4 J-	5.2
Calcium, Total	25000 J	90000 J	---
Chromium, Total	27 J+	14 J+	21
Cobalt, Total	11 J-	8.3 J-	20
Copper, Total	23 B	19 B	2900
Iron, Total	24000 J	16000 J	15000 / 15900
Lead, Total	14 J	9.1 J	107
Magnesium, Total	19000 J+	37000 J+	325000
Manganese, Total	500 J	510 J	630 / 636
Mercury, Total	0.023 J+	0.015 J	0.89
Nickel, Total	29	20	100
Potassium, Total	3700 J+	2600 J+	---
Sodium, Total	2500	580	---
Thallium, Total	1 J-	0.62 J-	2.6
Vanadium, Total	32	18	550
Zinc, Total	51 J	52 J	5100
TCLP Metals (mg/l)			
Barium, TCLP	0.25 J	0.3 J	2
Copper, TCLP	ND	0.018 J	0.65
Manganese, TCLP	4.6	0.86	0.15
Zinc, TCLP	ND	0.033 J	5
SPLP Metals (mg/l)			
Arsenic, SPLP	0.069	ND	0.05
Barium, SPLP	1.1	ND	2
Beryllium, SPLP	0.012	ND	0.004
Chromium, SPLP	0.3	ND	0.1
Cobalt, SPLP	0.11	ND	1
Copper, SPLP	0.28	0.14	0.65
Iron, SPLP	260 J+	2.7 J+	5
Lead, SPLP	0.14	0.015	0.0075
Manganese, SPLP	2.8	0.026	0.15
Mercury, SPLP	0.0002	ND	0.002
Nickel, SPLP	0.31	ND	0.1
Zinc, SPLP	0.54	0.095 J	5

Summary Table of ISGS Site No. 2668A-29
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 346: US Route 41 (Skokie Highway) from IL Route 21 to West Park Avenue
Gurnee, Park City, Waukegan, and North Chicago, Lake County, Illinois

Notes:

--- - not applicable or value not available.

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

B - Constituent detected in investigative and blank sample.

ND - Constituent not detected above the reporting limit.

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: 500-90849-1
Client Project/Site: IDOT - Lake County - WO 001

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

Attn: Mr. S. Babusukumar



Authorized for release by:
1/27/2015 8:24:19 AM

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

LINKS

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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 - Lake County - WO 001

TestAmerica Job ID: 500-90849-1

Client Sample ID: AG-2(0-3)-011515

Lab Sample ID: 500-90849-8

Date Collected: 01/15/15 09:55

Matrix: Solid

Date Received: 01/16/15 07:25

Percent Solids: 87.3

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	6.4		5.7	2.5	ug/Kg	☼		01/20/15 14:49	1
Benzene	<5.7		5.7	0.79	ug/Kg	☼		01/20/15 14:49	1
Bromodichloromethane	<5.7		5.7	0.99	ug/Kg	☼		01/20/15 14:49	1
Bromoform	<5.7		5.7	1.3	ug/Kg	☼		01/20/15 14:49	1
Bromomethane	<5.7		5.7	1.7	ug/Kg	☼		01/20/15 14:49	1
Carbon disulfide	<5.7		5.7	0.86	ug/Kg	☼		01/20/15 14:49	1
Carbon tetrachloride	<5.7		5.7	1.0	ug/Kg	☼		01/20/15 14:49	1
Chlorobenzene	<5.7		5.7	0.58	ug/Kg	☼		01/20/15 14:49	1
Chloroethane	<5.7		5.7	1.6	ug/Kg	☼		01/20/15 14:49	1
Chloroform	<5.7		5.7	0.66	ug/Kg	☼		01/20/15 14:49	1
Chloromethane	<5.7		5.7	1.2	ug/Kg	☼		01/20/15 14:49	1
cis-1,2-Dichloroethene	<5.7		5.7	0.81	ug/Kg	☼		01/20/15 14:49	1
cis-1,3-Dichloropropene	<5.7		5.7	0.75	ug/Kg	☼		01/20/15 14:49	1
Dibromochloromethane	<5.7		5.7	1.0	ug/Kg	☼		01/20/15 14:49	1
1,1-Dichloroethane	<5.7		5.7	0.91	ug/Kg	☼		01/20/15 14:49	1
1,2-Dichloroethane	<5.7		5.7	0.85	ug/Kg	☼		01/20/15 14:49	1
1,1-Dichloroethene	<5.7		5.7	0.93	ug/Kg	☼		01/20/15 14:49	1
1,2-Dichloropropane	<5.7		5.7	0.87	ug/Kg	☼		01/20/15 14:49	1
1,3-Dichloropropene, Total	<5.7		5.7	0.75	ug/Kg	☼		01/20/15 14:49	1
Ethylbenzene	<5.7		5.7	1.2	ug/Kg	☼		01/20/15 14:49	1
2-Hexanone	<5.7		5.7	1.7	ug/Kg	☼		01/20/15 14:49	1
Methylene Chloride	<5.7		5.7	1.5	ug/Kg	☼		01/20/15 14:49	1
Methyl Ethyl Ketone	<5.7		5.7	2.1	ug/Kg	☼		01/20/15 14:49	1
methyl isobutyl ketone	<5.7		5.7	1.5	ug/Kg	☼		01/20/15 14:49	1
Methyl tert-butyl ether	<5.7		5.7	0.95	ug/Kg	☼		01/20/15 14:49	1
Styrene	<5.7		5.7	0.75	ug/Kg	☼		01/20/15 14:49	1
1,1,1,2-Tetrachloroethane	<5.7		5.7	1.2	ug/Kg	☼		01/20/15 14:49	1
Tetrachloroethene	<5.7		5.7	0.88	ug/Kg	☼		01/20/15 14:49	1
Toluene	<5.7		5.7	0.80	ug/Kg	☼		01/20/15 14:49	1
trans-1,2-Dichloroethene	<5.7		5.7	0.79	ug/Kg	☼		01/20/15 14:49	1
trans-1,3-Dichloropropene	<5.7		5.7	1.0	ug/Kg	☼		01/20/15 14:49	1
1,1,1-Trichloroethane	<5.7		5.7	0.86	ug/Kg	☼		01/20/15 14:49	1
1,1,2-Trichloroethane	<5.7		5.7	0.78	ug/Kg	☼		01/20/15 14:49	1
Trichloroethene	<5.7		5.7	0.95	ug/Kg	☼		01/20/15 14:49	1
Vinyl chloride	<5.7		5.7	1.2	ug/Kg	☼		01/20/15 14:49	1
Xylenes, Total	<11		11	0.52	ug/Kg	☼		01/20/15 14:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 122		01/20/15 14:49	1
Dibromofluoromethane	107		75 - 120		01/20/15 14:49	1
1,2-Dichloroethane-d4 (Surr)	114		70 - 134		01/20/15 14:49	1
Toluene-d8 (Surr)	96		75 - 122		01/20/15 14:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	40	ug/Kg	☼	01/16/15 15:52	01/21/15 14:13	1
1,2-Dichlorobenzene	<190		190	44	ug/Kg	☼	01/16/15 15:52	01/21/15 14:13	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	01/16/15 15:52	01/21/15 14:13	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	01/16/15 15:52	01/21/15 14:13	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	01/16/15 15:52	01/21/15 14:13	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90849-1

Client Sample ID: AG-2(0-3)-011515

Lab Sample ID: 500-90849-8

Date Collected: 01/15/15 09:55

Matrix: Solid

Date Received: 01/16/15 07:25

Percent Solids: 87.3

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	☼	01/16/15 15:52	01/21/15 14:13	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	01/16/15 15:52	01/21/15 14:13	1
2,4-Dichlorophenol	<370		370	88	ug/Kg	☼	01/16/15 15:52	01/21/15 14:13	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	01/16/15 15:52	01/21/15 14:13	1
2,4-Dinitrophenol	<750 *		750	660	ug/Kg	☼	01/16/15 15:52	01/21/15 14:13	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	01/16/15 15:52	01/21/15 14:13	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	01/16/15 15:52	01/21/15 14:13	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	01/16/15 15:52	01/21/15 14:13	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	01/16/15 15:52	01/21/15 14:13	1
2-Methylnaphthalene	<37		37	6.8	ug/Kg	☼	01/16/15 15:52	01/21/15 14:13	1
2-Methylphenol	<190		190	60	ug/Kg	☼	01/16/15 15:52	01/21/15 14:13	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	01/16/15 15:52	01/21/15 14:13	1
2-Nitrophenol	<370		370	88	ug/Kg	☼	01/16/15 15:52	01/21/15 14:13	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	01/16/15 15:52	01/21/15 14:13	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	01/16/15 15:52	01/21/15 14:13	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	01/16/15 15:52	01/21/15 14:13	1
4,6-Dinitro-2-methylphenol	<370		370	300	ug/Kg	☼	01/16/15 15:52	01/21/15 14:13	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	01/16/15 15:52	01/21/15 14:13	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	01/16/15 15:52	01/21/15 14:13	1
4-Chloroaniline	<750		750	170	ug/Kg	☼	01/16/15 15:52	01/21/15 14:13	1
4-Chlorophenyl phenyl ether	<190		190	43	ug/Kg	☼	01/16/15 15:52	01/21/15 14:13	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	01/16/15 15:52	01/21/15 14:13	1
4-Nitrophenol	<750		750	350	ug/Kg	☼	01/16/15 15:52	01/21/15 14:13	1
Acenaphthene	<37		37	6.7	ug/Kg	☼	01/16/15 15:52	01/21/15 14:13	1
Acenaphthylene	<37		37	4.9	ug/Kg	☼	01/16/15 15:52	01/21/15 14:13	1
Anthracene	<37		37	6.2	ug/Kg	☼	01/16/15 15:52	01/21/15 14:13	1
Benzo[a]anthracene	<37		37	5.0	ug/Kg	☼	01/16/15 15:52	01/21/15 14:13	1
Benzo[a]pyrene	<37		37	7.2	ug/Kg	☼	01/16/15 15:52	01/21/15 14:13	1
Benzo[b]fluoranthene	<37		37	8.0	ug/Kg	☼	01/16/15 15:52	01/21/15 14:13	1
Benzo[g,h,i]perylene	<37		37	12	ug/Kg	☼	01/16/15 15:52	01/21/15 14:13	1
Benzo[k]fluoranthene	<37		37	11	ug/Kg	☼	01/16/15 15:52	01/21/15 14:13	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	01/16/15 15:52	01/21/15 14:13	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	01/16/15 15:52	01/21/15 14:13	1
Bis(2-ethylhexyl) phthalate	<190		190	68	ug/Kg	☼	01/16/15 15:52	01/21/15 14:13	1
Butyl benzyl phthalate	<190		190	71	ug/Kg	☼	01/16/15 15:52	01/21/15 14:13	1
Carbazole	<190		190	96	ug/Kg	☼	01/16/15 15:52	01/21/15 14:13	1
Chrysene	<37		37	10	ug/Kg	☼	01/16/15 15:52	01/21/15 14:13	1
Dibenz(a,h)anthracene	<37		37	7.2	ug/Kg	☼	01/16/15 15:52	01/21/15 14:13	1
Dibenzofuran	<190		190	44	ug/Kg	☼	01/16/15 15:52	01/21/15 14:13	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	01/16/15 15:52	01/21/15 14:13	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	01/16/15 15:52	01/21/15 14:13	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	01/16/15 15:52	01/21/15 14:13	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	01/16/15 15:52	01/21/15 14:13	1
Fluoranthene	<37		37	6.9	ug/Kg	☼	01/16/15 15:52	01/21/15 14:13	1
Fluorene	<37		37	5.2	ug/Kg	☼	01/16/15 15:52	01/21/15 14:13	1
Hexachlorobenzene	<75		75	8.6	ug/Kg	☼	01/16/15 15:52	01/21/15 14:13	1
Hexachlorobutadiene	<190		190	58	ug/Kg	☼	01/16/15 15:52	01/21/15 14:13	1
Hexachlorocyclopentadiene	<750		750	210	ug/Kg	☼	01/16/15 15:52	01/21/15 14:13	1
Hexachloroethane	<190		190	57	ug/Kg	☼	01/16/15 15:52	01/21/15 14:13	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90849-1

Client Sample ID: AG-2(0-3)-011515

Lab Sample ID: 500-90849-8

Date Collected: 01/15/15 09:55

Matrix: Solid

Date Received: 01/16/15 07:25

Percent Solids: 87.3

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	<37		37	9.6	ug/Kg	☼	01/16/15 15:52	01/21/15 14:13	1
Isophorone	<190		190	42	ug/Kg	☼	01/16/15 15:52	01/21/15 14:13	1
Naphthalene	<37		37	5.7	ug/Kg	☼	01/16/15 15:52	01/21/15 14:13	1
Nitrobenzene	<37		37	9.3	ug/Kg	☼	01/16/15 15:52	01/21/15 14:13	1
N-Nitrosodi-n-propylamine	<190		190	45	ug/Kg	☼	01/16/15 15:52	01/21/15 14:13	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	01/16/15 15:52	01/21/15 14:13	1
Pentachlorophenol	<750		750	600	ug/Kg	☼	01/16/15 15:52	01/21/15 14:13	1
Phenanthrene	<37		37	5.2	ug/Kg	☼	01/16/15 15:52	01/21/15 14:13	1
Phenol	<190		190	83	ug/Kg	☼	01/16/15 15:52	01/21/15 14:13	1
Pyrene	<37		37	7.4	ug/Kg	☼	01/16/15 15:52	01/21/15 14:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	47		35 - 137				01/16/15 15:52	01/21/15 14:13	1
2-Fluorobiphenyl	33		25 - 119				01/16/15 15:52	01/21/15 14:13	1
2-Fluorophenol	42		25 - 110				01/16/15 15:52	01/21/15 14:13	1
Nitrobenzene-d5	37		25 - 115				01/16/15 15:52	01/21/15 14:13	1
Phenol-d5	36		31 - 110				01/16/15 15:52	01/21/15 14:13	1
Terphenyl-d14	57		36 - 134				01/16/15 15:52	01/21/15 14:13	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		01/19/15 08:00	01/21/15 19:11	1
Barium	0.30	J	0.50	0.050	mg/L		01/19/15 08:00	01/21/15 19:11	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/19/15 08:00	01/21/15 19:11	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/19/15 08:00	01/21/15 19:11	1
Chromium	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/21/15 19:11	1
Cobalt	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/21/15 19:11	1
Copper	0.018	J	0.025	0.010	mg/L		01/19/15 08:00	01/21/15 19:11	1
Iron	<0.20		0.20	0.20	mg/L		01/19/15 08:00	01/21/15 19:11	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/19/15 08:00	01/21/15 19:11	1
Manganese	0.86		0.025	0.010	mg/L		01/19/15 08:00	01/21/15 19:11	1
Nickel	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/21/15 19:11	1
Selenium	<0.050		0.050	0.020	mg/L		01/19/15 08:00	01/21/15 19:11	1
Silver	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/21/15 19:11	1
Zinc	0.033	J	0.10	0.020	mg/L		01/19/15 08:00	01/21/15 19:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/20/15 08:30	01/21/15 14:04	1
Barium	<0.50		0.50	0.050	mg/L		01/20/15 08:30	01/21/15 14:04	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/20/15 08:30	01/21/15 14:04	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/20/15 08:30	01/21/15 14:04	1
Chromium	<0.025		0.025	0.010	mg/L		01/20/15 08:30	01/21/15 14:04	1
Cobalt	<0.025		0.025	0.010	mg/L		01/20/15 08:30	01/21/15 14:04	1
Copper	0.14		0.025	0.010	mg/L		01/20/15 08:30	01/21/15 14:04	1
Iron	2.7		0.20	0.20	mg/L		01/20/15 08:30	01/21/15 14:04	1
Lead	0.015		0.0075	0.0075	mg/L		01/20/15 08:30	01/21/15 14:04	1
Manganese	0.026		0.025	0.010	mg/L		01/20/15 08:30	01/21/15 14:04	1
Nickel	<0.025		0.025	0.010	mg/L		01/20/15 08:30	01/21/15 14:04	1
Selenium	<0.050		0.050	0.020	mg/L		01/20/15 08:30	01/21/15 14:04	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90849-1

Client Sample ID: AG-2(0-3)-011515

Lab Sample ID: 500-90849-8

Date Collected: 01/15/15 09:55

Matrix: Solid

Date Received: 01/16/15 07:25

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		01/20/15 08:30	01/21/15 14:04	1
Zinc	0.095	J	0.10	0.020	mg/L		01/20/15 08:30	01/21/15 14:04	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	01/18/15 16:30	01/20/15 15:16	1
Arsenic	6.4		0.55	0.25	mg/Kg	☼	01/18/15 16:30	01/20/15 15:16	1
Barium	30		0.55	0.10	mg/Kg	☼	01/18/15 16:30	01/20/15 15:16	1
Beryllium	0.50		0.22	0.047	mg/Kg	☼	01/18/15 16:30	01/20/15 15:16	1
Cadmium	0.40		0.11	0.032	mg/Kg	☼	01/18/15 16:30	01/20/15 15:16	1
Calcium	90000		110	35	mg/Kg	☼	01/18/15 16:30	01/21/15 15:05	10
Chromium	14		0.55	0.094	mg/Kg	☼	01/18/15 16:30	01/20/15 15:16	1
Cobalt	8.3		0.27	0.062	mg/Kg	☼	01/18/15 16:30	01/20/15 15:16	1
Copper	19	B	0.55	0.12	mg/Kg	☼	01/18/15 16:30	01/20/15 15:16	1
Iron	16000		11	4.2	mg/Kg	☼	01/18/15 16:30	01/20/15 15:16	1
Lead	9.1		0.27	0.14	mg/Kg	☼	01/18/15 16:30	01/20/15 15:16	1
Magnesium	37000		5.5	2.2	mg/Kg	☼	01/18/15 16:30	01/20/15 15:16	1
Manganese	510		0.55	0.11	mg/Kg	☼	01/18/15 16:30	01/20/15 15:16	1
Nickel	20		0.55	0.15	mg/Kg	☼	01/18/15 16:30	01/20/15 15:16	1
Potassium	2600		27	4.5	mg/Kg	☼	01/18/15 16:30	01/20/15 15:16	1
Selenium	<0.55		0.55	0.27	mg/Kg	☼	01/18/15 16:30	01/20/15 15:16	1
Silver	<0.27		0.27	0.064	mg/Kg	☼	01/18/15 16:30	01/20/15 15:16	1
Sodium	580		55	7.2	mg/Kg	☼	01/18/15 16:30	01/20/15 15:16	1
Thallium	0.62		0.55	0.27	mg/Kg	☼	01/18/15 16:30	01/20/15 15:16	1
Vanadium	18		0.27	0.080	mg/Kg	☼	01/18/15 16:30	01/20/15 15:16	1
Zinc	52	B	1.1	0.35	mg/Kg	☼	01/18/15 16:30	01/20/15 15:16	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		01/20/15 11:00	01/21/15 10:31	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		01/20/15 11:00	01/21/15 12:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	15	J	19	6.6	ug/Kg	☼	01/16/15 13:00	01/19/15 11:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.19		0.200	0.200	SU			01/19/15 13:44	1

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90849-1

Client Sample ID: AG-1(0-3)-011515

Lab Sample ID: 500-90849-9

Date Collected: 01/15/15 10:10

Matrix: Solid

Date Received: 01/16/15 07:25

Percent Solids: 81.0

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	40		6.2	2.7	ug/Kg	☼		01/20/15 15:13	1
Benzene	<6.2		6.2	0.85	ug/Kg	☼		01/20/15 15:13	1
Bromodichloromethane	<6.2		6.2	1.1	ug/Kg	☼		01/20/15 15:13	1
Bromoform	<6.2		6.2	1.4	ug/Kg	☼		01/20/15 15:13	1
Bromomethane	<6.2		6.2	1.9	ug/Kg	☼		01/20/15 15:13	1
Carbon disulfide	<6.2		6.2	0.92	ug/Kg	☼		01/20/15 15:13	1
Carbon tetrachloride	<6.2		6.2	1.1	ug/Kg	☼		01/20/15 15:13	1
Chlorobenzene	<6.2		6.2	0.63	ug/Kg	☼		01/20/15 15:13	1
Chloroethane	<6.2		6.2	1.7	ug/Kg	☼		01/20/15 15:13	1
Chloroform	<6.2		6.2	0.71	ug/Kg	☼		01/20/15 15:13	1
Chloromethane	<6.2		6.2	1.3	ug/Kg	☼		01/20/15 15:13	1
cis-1,2-Dichloroethene	<6.2		6.2	0.87	ug/Kg	☼		01/20/15 15:13	1
cis-1,3-Dichloropropene	<6.2		6.2	0.81	ug/Kg	☼		01/20/15 15:13	1
Dibromochloromethane	<6.2		6.2	1.1	ug/Kg	☼		01/20/15 15:13	1
1,1-Dichloroethane	<6.2		6.2	0.98	ug/Kg	☼		01/20/15 15:13	1
1,2-Dichloroethane	<6.2		6.2	0.91	ug/Kg	☼		01/20/15 15:13	1
1,1-Dichloroethene	<6.2		6.2	1.0	ug/Kg	☼		01/20/15 15:13	1
1,2-Dichloropropane	<6.2		6.2	0.94	ug/Kg	☼		01/20/15 15:13	1
1,3-Dichloropropene, Total	<6.2		6.2	0.81	ug/Kg	☼		01/20/15 15:13	1
Ethylbenzene	<6.2		6.2	1.2	ug/Kg	☼		01/20/15 15:13	1
2-Hexanone	<6.2		6.2	1.8	ug/Kg	☼		01/20/15 15:13	1
Methylene Chloride	<6.2		6.2	1.7	ug/Kg	☼		01/20/15 15:13	1
Methyl Ethyl Ketone	5.8 J		6.2	2.2	ug/Kg	☼		01/20/15 15:13	1
methyl isobutyl ketone	<6.2		6.2	1.6	ug/Kg	☼		01/20/15 15:13	1
Methyl tert-butyl ether	<6.2		6.2	1.0	ug/Kg	☼		01/20/15 15:13	1
Styrene	<6.2		6.2	0.81	ug/Kg	☼		01/20/15 15:13	1
1,1,1,2-Tetrachloroethane	<6.2		6.2	1.2	ug/Kg	☼		01/20/15 15:13	1
Tetrachloroethene	<6.2		6.2	0.94	ug/Kg	☼		01/20/15 15:13	1
Toluene	<6.2		6.2	0.86	ug/Kg	☼		01/20/15 15:13	1
trans-1,2-Dichloroethene	<6.2		6.2	0.85	ug/Kg	☼		01/20/15 15:13	1
trans-1,3-Dichloropropene	<6.2		6.2	1.1	ug/Kg	☼		01/20/15 15:13	1
1,1,1-Trichloroethane	<6.2		6.2	0.92	ug/Kg	☼		01/20/15 15:13	1
1,1,2-Trichloroethane	<6.2		6.2	0.84	ug/Kg	☼		01/20/15 15:13	1
Trichloroethene	<6.2		6.2	1.0	ug/Kg	☼		01/20/15 15:13	1
Vinyl chloride	<6.2		6.2	1.3	ug/Kg	☼		01/20/15 15:13	1
Xylenes, Total	<12		12	0.56	ug/Kg	☼		01/20/15 15:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 122		01/20/15 15:13	1
Dibromofluoromethane	106		75 - 120		01/20/15 15:13	1
1,2-Dichloroethane-d4 (Surr)	118		70 - 134		01/20/15 15:13	1
Toluene-d8 (Surr)	92		75 - 122		01/20/15 15:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<200		200	44	ug/Kg	☼	01/16/15 15:52	01/21/15 14:34	1
1,2-Dichlorobenzene	<200		200	48	ug/Kg	☼	01/16/15 15:52	01/21/15 14:34	1
1,3-Dichlorobenzene	<200		200	46	ug/Kg	☼	01/16/15 15:52	01/21/15 14:34	1
1,4-Dichlorobenzene	<200		200	52	ug/Kg	☼	01/16/15 15:52	01/21/15 14:34	1
2,2'-oxybis[1-chloropropane]	<200		200	47	ug/Kg	☼	01/16/15 15:52	01/21/15 14:34	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90849-1

Client Sample ID: AG-1(0-3)-011515

Lab Sample ID: 500-90849-9

Date Collected: 01/15/15 10:10

Matrix: Solid

Date Received: 01/16/15 07:25

Percent Solids: 81.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<400		400	92	ug/Kg	☼	01/16/15 15:52	01/21/15 14:34	1
2,4,6-Trichlorophenol	<400		400	140	ug/Kg	☼	01/16/15 15:52	01/21/15 14:34	1
2,4-Dichlorophenol	<400		400	96	ug/Kg	☼	01/16/15 15:52	01/21/15 14:34	1
2,4-Dimethylphenol	<400		400	150	ug/Kg	☼	01/16/15 15:52	01/21/15 14:34	1
2,4-Dinitrophenol	<820	*	820	710	ug/Kg	☼	01/16/15 15:52	01/21/15 14:34	1
2,4-Dinitrotoluene	<200		200	64	ug/Kg	☼	01/16/15 15:52	01/21/15 14:34	1
2,6-Dinitrotoluene	<200		200	80	ug/Kg	☼	01/16/15 15:52	01/21/15 14:34	1
2-Chloronaphthalene	<200		200	45	ug/Kg	☼	01/16/15 15:52	01/21/15 14:34	1
2-Chlorophenol	<200		200	69	ug/Kg	☼	01/16/15 15:52	01/21/15 14:34	1
2-Methylnaphthalene	<40		40	7.4	ug/Kg	☼	01/16/15 15:52	01/21/15 14:34	1
2-Methylphenol	<200		200	65	ug/Kg	☼	01/16/15 15:52	01/21/15 14:34	1
2-Nitroaniline	<200		200	54	ug/Kg	☼	01/16/15 15:52	01/21/15 14:34	1
2-Nitrophenol	<400		400	96	ug/Kg	☼	01/16/15 15:52	01/21/15 14:34	1
3 & 4 Methylphenol	<200		200	68	ug/Kg	☼	01/16/15 15:52	01/21/15 14:34	1
3,3'-Dichlorobenzidine	<200		200	57	ug/Kg	☼	01/16/15 15:52	01/21/15 14:34	1
3-Nitroaniline	<400		400	130	ug/Kg	☼	01/16/15 15:52	01/21/15 14:34	1
4,6-Dinitro-2-methylphenol	<400		400	330	ug/Kg	☼	01/16/15 15:52	01/21/15 14:34	1
4-Bromophenyl phenyl ether	<200		200	53	ug/Kg	☼	01/16/15 15:52	01/21/15 14:34	1
4-Chloro-3-methylphenol	<400		400	140	ug/Kg	☼	01/16/15 15:52	01/21/15 14:34	1
4-Chloroaniline	<820		820	190	ug/Kg	☼	01/16/15 15:52	01/21/15 14:34	1
4-Chlorophenyl phenyl ether	<200		200	47	ug/Kg	☼	01/16/15 15:52	01/21/15 14:34	1
4-Nitroaniline	<400		400	170	ug/Kg	☼	01/16/15 15:52	01/21/15 14:34	1
4-Nitrophenol	<820		820	390	ug/Kg	☼	01/16/15 15:52	01/21/15 14:34	1
Acenaphthene	<40		40	7.3	ug/Kg	☼	01/16/15 15:52	01/21/15 14:34	1
Acenaphthylene	<40		40	5.3	ug/Kg	☼	01/16/15 15:52	01/21/15 14:34	1
Anthracene	<40		40	6.8	ug/Kg	☼	01/16/15 15:52	01/21/15 14:34	1
Benzo[a]anthracene	<40		40	5.4	ug/Kg	☼	01/16/15 15:52	01/21/15 14:34	1
Benzo[a]pyrene	10	J	40	7.8	ug/Kg	☼	01/16/15 15:52	01/21/15 14:34	1
Benzo[b]fluoranthene	17	J	40	8.7	ug/Kg	☼	01/16/15 15:52	01/21/15 14:34	1
Benzo[g,h,i]perylene	13	J	40	13	ug/Kg	☼	01/16/15 15:52	01/21/15 14:34	1
Benzo[k]fluoranthene	<40		40	12	ug/Kg	☼	01/16/15 15:52	01/21/15 14:34	1
Bis(2-chloroethoxy)methane	<200		200	41	ug/Kg	☼	01/16/15 15:52	01/21/15 14:34	1
Bis(2-chloroethyl)ether	<200		200	61	ug/Kg	☼	01/16/15 15:52	01/21/15 14:34	1
Bis(2-ethylhexyl) phthalate	<200		200	74	ug/Kg	☼	01/16/15 15:52	01/21/15 14:34	1
Butyl benzyl phthalate	<200		200	77	ug/Kg	☼	01/16/15 15:52	01/21/15 14:34	1
Carbazole	<200		200	100	ug/Kg	☼	01/16/15 15:52	01/21/15 14:34	1
Chrysene	14	J	40	11	ug/Kg	☼	01/16/15 15:52	01/21/15 14:34	1
Dibenz(a,h)anthracene	<40		40	7.8	ug/Kg	☼	01/16/15 15:52	01/21/15 14:34	1
Dibenzofuran	<200		200	47	ug/Kg	☼	01/16/15 15:52	01/21/15 14:34	1
Diethyl phthalate	<200		200	69	ug/Kg	☼	01/16/15 15:52	01/21/15 14:34	1
Dimethyl phthalate	<200		200	53	ug/Kg	☼	01/16/15 15:52	01/21/15 14:34	1
Di-n-butyl phthalate	<200		200	62	ug/Kg	☼	01/16/15 15:52	01/21/15 14:34	1
Di-n-octyl phthalate	<200		200	66	ug/Kg	☼	01/16/15 15:52	01/21/15 14:34	1
Fluoranthene	11	J	40	7.5	ug/Kg	☼	01/16/15 15:52	01/21/15 14:34	1
Fluorene	<40		40	5.7	ug/Kg	☼	01/16/15 15:52	01/21/15 14:34	1
Hexachlorobenzene	<82		82	9.4	ug/Kg	☼	01/16/15 15:52	01/21/15 14:34	1
Hexachlorobutadiene	<200		200	64	ug/Kg	☼	01/16/15 15:52	01/21/15 14:34	1
Hexachlorocyclopentadiene	<820		820	230	ug/Kg	☼	01/16/15 15:52	01/21/15 14:34	1
Hexachloroethane	<200		200	62	ug/Kg	☼	01/16/15 15:52	01/21/15 14:34	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90849-1

Client Sample ID: AG-1(0-3)-011515

Lab Sample ID: 500-90849-9

Date Collected: 01/15/15 10:10

Matrix: Solid

Date Received: 01/16/15 07:25

Percent Solids: 81.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	10	J	40	10	ug/Kg	☼	01/16/15 15:52	01/21/15 14:34	1
Isophorone	<200		200	45	ug/Kg	☼	01/16/15 15:52	01/21/15 14:34	1
Naphthalene	<40		40	6.2	ug/Kg	☼	01/16/15 15:52	01/21/15 14:34	1
Nitrobenzene	<40		40	10	ug/Kg	☼	01/16/15 15:52	01/21/15 14:34	1
N-Nitrosodi-n-propylamine	<200		200	49	ug/Kg	☼	01/16/15 15:52	01/21/15 14:34	1
N-Nitrosodiphenylamine	<200		200	48	ug/Kg	☼	01/16/15 15:52	01/21/15 14:34	1
Pentachlorophenol	<820		820	650	ug/Kg	☼	01/16/15 15:52	01/21/15 14:34	1
Phenanthrene	<40		40	5.6	ug/Kg	☼	01/16/15 15:52	01/21/15 14:34	1
Phenol	<200		200	90	ug/Kg	☼	01/16/15 15:52	01/21/15 14:34	1
Pyrene	13	J	40	8.0	ug/Kg	☼	01/16/15 15:52	01/21/15 14:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>2,4,6-Tribromophenol</i>	51		35 - 137				01/16/15 15:52	01/21/15 14:34	1
<i>2-Fluorobiphenyl</i>	37		25 - 119				01/16/15 15:52	01/21/15 14:34	1
<i>2-Fluorophenol</i>	45		25 - 110				01/16/15 15:52	01/21/15 14:34	1
<i>Nitrobenzene-d5</i>	41		25 - 115				01/16/15 15:52	01/21/15 14:34	1
<i>Phenol-d5</i>	38		31 - 110				01/16/15 15:52	01/21/15 14:34	1
<i>Terphenyl-d14</i>	71		36 - 134				01/16/15 15:52	01/21/15 14:34	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		01/19/15 08:00	01/21/15 19:17	1
Barium	0.25	J	0.50	0.050	mg/L		01/19/15 08:00	01/21/15 19:17	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/19/15 08:00	01/21/15 19:17	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/19/15 08:00	01/21/15 19:17	1
Chromium	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/21/15 19:17	1
Cobalt	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/21/15 19:17	1
Copper	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/21/15 19:17	1
Iron	<0.20		0.20	0.20	mg/L		01/19/15 08:00	01/21/15 19:17	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/19/15 08:00	01/21/15 19:17	1
Manganese	4.6		0.025	0.010	mg/L		01/19/15 08:00	01/21/15 19:17	1
Nickel	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/21/15 19:17	1
Selenium	<0.050		0.050	0.020	mg/L		01/19/15 08:00	01/21/15 19:17	1
Silver	<0.025		0.025	0.010	mg/L		01/19/15 08:00	01/21/15 19:17	1
Zinc	<0.10		0.10	0.020	mg/L		01/19/15 08:00	01/21/15 19:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.069		0.050	0.010	mg/L		01/20/15 08:30	01/21/15 14:30	1
Barium	1.1		0.50	0.050	mg/L		01/20/15 08:30	01/21/15 14:30	1
Beryllium	0.012		0.0040	0.0040	mg/L		01/20/15 08:30	01/21/15 14:30	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/20/15 08:30	01/21/15 14:30	1
Chromium	0.30		0.025	0.010	mg/L		01/20/15 08:30	01/21/15 14:30	1
Cobalt	0.11		0.025	0.010	mg/L		01/20/15 08:30	01/21/15 14:30	1
Copper	0.28		0.025	0.010	mg/L		01/20/15 08:30	01/21/15 14:30	1
Iron	260		0.20	0.20	mg/L		01/20/15 08:30	01/21/15 14:30	1
Lead	0.14		0.0075	0.0075	mg/L		01/20/15 08:30	01/21/15 14:30	1
Manganese	2.8		0.025	0.010	mg/L		01/20/15 08:30	01/21/15 14:30	1
Nickel	0.31		0.025	0.010	mg/L		01/20/15 08:30	01/21/15 14:30	1
Selenium	<0.050		0.050	0.020	mg/L		01/20/15 08:30	01/21/15 14:30	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90849-1

Client Sample ID: AG-1(0-3)-011515

Lab Sample ID: 500-90849-9

Date Collected: 01/15/15 10:10

Matrix: Solid

Date Received: 01/16/15 07:25

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		01/20/15 08:30	01/21/15 14:30	1
Zinc	0.54		0.10	0.020	mg/L		01/20/15 08:30	01/21/15 14:30	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.40	J	1.1	0.23	mg/Kg	☼	01/18/15 16:30	01/20/15 15:22	1
Arsenic	5.7		0.56	0.26	mg/Kg	☼	01/18/15 16:30	01/20/15 15:22	1
Barium	70		0.56	0.10	mg/Kg	☼	01/18/15 16:30	01/20/15 15:22	1
Beryllium	1.0		0.23	0.049	mg/Kg	☼	01/18/15 16:30	01/20/15 15:22	1
Cadmium	0.34		0.11	0.033	mg/Kg	☼	01/18/15 16:30	01/20/15 15:22	1
Calcium	25000		11	3.6	mg/Kg	☼	01/18/15 16:30	01/20/15 15:22	1
Chromium	27		0.56	0.097	mg/Kg	☼	01/18/15 16:30	01/20/15 15:22	1
Cobalt	11		0.28	0.064	mg/Kg	☼	01/18/15 16:30	01/20/15 15:22	1
Copper	23	B	0.56	0.12	mg/Kg	☼	01/18/15 16:30	01/20/15 15:22	1
Iron	24000		11	4.3	mg/Kg	☼	01/18/15 16:30	01/20/15 15:22	1
Lead	14		0.28	0.14	mg/Kg	☼	01/18/15 16:30	01/20/15 15:22	1
Magnesium	19000		5.6	2.3	mg/Kg	☼	01/18/15 16:30	01/20/15 15:22	1
Manganese	500		0.56	0.11	mg/Kg	☼	01/18/15 16:30	01/20/15 15:22	1
Nickel	29		0.56	0.15	mg/Kg	☼	01/18/15 16:30	01/20/15 15:22	1
Potassium	3700		28	4.6	mg/Kg	☼	01/18/15 16:30	01/20/15 15:22	1
Selenium	<0.56		0.56	0.28	mg/Kg	☼	01/18/15 16:30	01/20/15 15:22	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	01/18/15 16:30	01/20/15 15:22	1
Sodium	2500		56	7.4	mg/Kg	☼	01/18/15 16:30	01/20/15 15:22	1
Thallium	1.0		0.56	0.28	mg/Kg	☼	01/18/15 16:30	01/20/15 15:22	1
Vanadium	32		0.28	0.082	mg/Kg	☼	01/18/15 16:30	01/20/15 15:22	1
Zinc	51	B	1.1	0.36	mg/Kg	☼	01/18/15 16:30	01/20/15 15:22	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		01/20/15 11:00	01/21/15 10:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.22		0.20	0.20	ug/L		01/20/15 11:00	01/21/15 12:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	23		20	7.1	ug/Kg	☼	01/16/15 13:00	01/19/15 11:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.70		0.200	0.200	SU			01/19/15 13:48	1

Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90849-1

Qualifiers

GC/MS VOA

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

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
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
F1	MS and/or MSD Recovery exceeds the control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F2	MS/MSD RPD exceeds control 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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90849-1

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-15

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

Analysis Method	Prep Method	Matrix	Analyte
7470A	7470A	Solid	Mercury
8260B		Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 61
Phone: 708.534.5200 Fax: 708.53



500-90849 COC

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

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

Chain of Custody Record

Lab Job #: 500-90849
Chain of Custody Number:
Page 1 of 3
Temperature °C of Cooler: 3.1, 3.5

Client		Client Project #		Preservative		7		7		7		7		7		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		Parameter		VOCs		SVOCs		Total Metals		TCLP/SLCP Metals		PH		
Sampler		Lab Project #		Matrix												
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	Comments									
1		FP-5 (0-3)-011515	1/5/15	0835	2 S	S	X	X	X	X	X					
2		FP-4 (0-3)-011515		0750												
3		FP-3 (0-3)-011515		0755												
4		FP-2 (0-3)-011515		0850												
5		FP-2 (0-3)-011515 D		0850												
6		FP-1 (0-3)-011515		0900												
7		RS-1 (0-3)-011515		0920												
8		AG-2 (0-3)-011515		0955												
9		AG-1 (0-3)-011515		1010												
10		C 28-1 (0-3)-011515		1020												

Turnaround Time Required (Business Days)

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

Requested Due Date

Sample Disposal

Return to Client

Disposal by Lab

Archive for _____ Months

(A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>Matthew</u>	Company <u>Weston</u>	Date <u>1/15/15</u>	Time <u>1500</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>1/15/15</u>	Time <u>1500</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>1/15/15</u>	Time <u>1655</u>	Received By <u>[Signature]</u>	Company <u>TA-CRT</u>	Date <u>1/16/15</u>	Time <u>0725</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: JA
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:

1.10.1.835

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

Report To (optional)	Bill To (optional)
Contact: <u>S. Babusukumar</u>	Contact: _____
Company: <u>Weston Solutions</u>	Company: _____
Address: <u>300 Plaza Circle Ste 202</u>	Address: <u>SAME</u>
Address: <u>Mundelein IL 60060</u>	Address: _____
Phone: <u>(864)-224-7200</u>	Phone: _____
Fax: _____	Fax: _____
E-Mail: _____	PO#/Reference# _____

Chain of Custody Record

Lab Job #: 500-90849

Chain of Custody Number: _____

Page 2 of 3

Temperature °C of Cooler: _____

Client		Client Project #		Preservative		Parameter		Preservative Key		
<u>Weston</u>				<u>7</u>	<u>7</u>	<u>7</u>	<u>7</u>	<u>7</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		Comments		
<u>IDOT 001</u>				<u>VOCs</u>	<u>SVOCs</u>	<u>Total Metals</u>	<u>TELP/SPLP Metals</u>			
Project Location/State		Lab PM					<u>PH</u>			
<u>IL</u>		<u>D. Wright</u>								
Sampler		Lab PM		# of Containers		Matrix				
<u>M. Strow</u>		<u>D. Wright</u>								
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix				
<u>11</u>		<u>C27-2(0-3)-011515</u>	<u>1/15/15</u>	<u>1040</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>12</u>		<u>C27-2(0-3)-011515D</u>		<u>1040</u>						
<u>13</u>		<u>C27-1(0-3)-011515</u>		<u>1050</u>						
<u>14</u>		<u>V26-2(0-3)-011515</u>		<u>1105</u>						
<u>15</u>		<u>V26-1(0-3)-011515</u>		<u>1115</u>						
<u>16</u>		<u>W-1(0-3)-011515</u>		<u>1150</u>						
<u>17</u>		<u>W-2(0-3)-011515</u>		<u>1200</u>						
<u>18</u>		<u>W-3(0-3)-011515</u>		<u>1210</u>						
<u>19</u>		<u>W-4(0-3)-011515</u>		<u>1225</u>						
<u>20</u>		<u>W-5(0-3)-011515</u>		<u>1240</u>						

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

Requested Due Date _____

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

Relinquished By <u>M. Strow</u>	Company <u>Weston</u>	Date <u>1/15/15</u>	Time <u>1500</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>1/15/15</u>	Time <u>1500</u>	Lab Courier <u>TA</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>1/15/15</u>	Time <u>1655</u>	Received By <u>[Signature]</u>	Company <u>TA-CHT</u>	Date <u>1/16/15</u>	Time <u>0725</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:
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Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

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

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

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

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

I. Source Location Information

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

Project Name: FAP 346: US 41 from IL 21 to West Park Ave Office Phone Number, if available: _____

Physical Site Location (address, including number and street):
1260 to 1264 Blackburn Street and 4045 to 4055 Glen Flora Avenue

City: Gurnee State: IL Zip Code: _____

County: Lake Township: _____

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

Latitude: 42.37694558 Longitude: -87.90219259
(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: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

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

Project Name: FAP 346: US 41 from IL 21 to West Park Ave

Latitude: 42.37694558 Longitude: -87.90219259

Uncontaminated Site Certification

III. Basis for Certification and Attachments

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

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

LOCATIONS A41-2, A41-3, AND A41-4 WERE SAMPLED ADJACENT TO ISGS SITE No. 2668A-41. SEE FIGURES 3-3/3-4 AND TABLE 4-1 OF THE REVISED 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]:

TEST AMERICA ANALYTICAL REPORT - JOB ID: 500-90850-1

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

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

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

Company Name: Illinois Department of Transportation

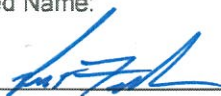
Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Kurt T. Fischer P.G.

Printed Name:



2/9/15

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Date:



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

Summary Table of ISGS Site No. 2668A-41
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 346: US Route 41 (Skokie Highway) from IL Route 21 to West Park Avenue
Gurnee, Park City, Waukegan, and North Chicago, Lake County, Illinois

Field Sample ID	A41-2(0-3)-011515	A41-3(0-3)-011515	A41-4(0-3)-011515	Soil Reference Concentrations ^A
Sample Date	1/15/2015	1/15/2015	1/15/2015	
Location ID	A41-2	A41-3	A41-4	
Depth	0 - 3	0 - 3	0 - 3	
ISGS Site Number	2668A-41	2668A-41	2668A-41	
Parameter				
Laboratory pH (s.u.)	7.92	8.88	7.56	<6.25,>9.0
VOCs (ug/kg)				
Acetone	110	59	68	25000
Methyl ethyl ketone	13	ND	ND	---
SVOCs (ug/kg)				
Benzo(a)anthracene	30 J	21 J	24 J	900 / 1100 / 1800
Benzo(a)pyrene	27 J	20 J	21 J	90 / 1300 / 2100
Benzo(b)fluoranthene	41	31 J	35 J	900 / 1500 / 2100
Benzo(g,h,i)perylene	28 J	23 J	21 J	---
Benzo(k)fluoranthene	17 J	13 J	18 J	9000
Chrysene	36 J	26 J	29 J	88000
Fluoranthene	49	37 J	44	3100000
Indeno(1,2,3-cd)pyrene	23 J	15 J	16 J	900 / 900 / 1600
Phenanthrene	22 J	16 J	20 J	---
Pyrene	46	30 J	34 J	2300000
Total Metals (mg/kg)				
Antimony, Total	0.28 J	0.33 J	0.36 J	5
Arsenic, Total	6.2	6.6	6.2	11.3 / 13
Barium, Total	77	65	67	1500
Beryllium, Total	0.86	0.75	0.82	22
Cadmium, Total	0.2	0.19	0.18	5.2
Calcium, Total	17000	34000	16000	---
Chromium, Total	22	18	20	21
Cobalt, Total	15	13	13	20
Copper, Total	22	26	20	2900
Iron, Total	20000 B	20000 B	20000 B	15000 / 15900
Lead, Total	49	39	40	107
Magnesium, Total	12000	21000	11000	325000
Manganese, Total	460	560	370	630 / 636
Mercury, Total	0.034	0.029	0.029	0.89
Nickel, Total	33	30	32	100
Potassium, Total	2300	2200	2000	---
Selenium, Total	0.46 J	0.48 J	0.39 J	1.3
Sodium, Total	870 B	850 B	1000 B	---
Thallium, Total	ND	0.29 J	0.31 J	2.6
Vanadium, Total	26	23	28	550
Zinc, Total	75 B	95 B	79 B	5100
TCLP Metals (mg/l)				
Arsenic, TCLP	0.012 J	ND	ND	0.05
Barium, TCLP	0.53	0.52	0.51	2
Cadmium, TCLP	0.0025 J	ND	ND	0.005
Cobalt, TCLP	0.031	0.012 J	0.019 J	1
Copper, TCLP	ND	0.016 J	ND	0.65
Iron, TCLP	0.59	ND	ND	5
Lead, TCLP	0.021	ND	0.0085	0.0075
Manganese, TCLP	9.4	6.8	13	0.15
Nickel, TCLP	0.019 J	ND	ND	0.1
Zinc, TCLP	0.052 J	0.033 J	0.031 J	5

Summary Table of ISGS Site No. 2668A-41
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 346: US Route 41 (Skokie Highway) from IL Route 21 to West Park Avenue
Gurnee, Park City, Waukegan, and North Chicago, Lake County, Illinois

Field Sample ID	A41-2(0-3)-011515	A41-3(0-3)-011515	A41-4(0-3)-011515	Soil Reference Concentrations ^A
Sample Date	1/15/2015	1/15/2015	1/15/2015	
Location ID	A41-2	A41-3	A41-4	
Depth	0 - 3	0 - 3	0 - 3	
ISGS Site Number	2668A-41	2668A-41	2668A-41	
Parameter				
SPLP Metals (mg/l)				
Arsenic, SPLP	0.027 J	0.021 J	0.012 J	0.05
Barium, SPLP	0.44 J	0.26 J	0.23 J	2
Beryllium, SPLP	0.0047	ND	ND	0.004
Cadmium, SPLP	ND	ND	ND	0.005
Chromium, SPLP	0.11	0.069	0.05	0.1
Cobalt, SPLP	0.032	0.025	0.015 J	1
Copper, SPLP	0.2	0.14	0.26	0.65
Iron, SPLP	86	61	39	5
Lead, SPLP	0.091	0.087	0.058	0.0075
Manganese, SPLP	0.93	0.86	0.89	0.15
Mercury, SPLP	ND	ND	ND	0.002
Nickel, SPLP	0.098	0.065	0.042	0.1
Zinc, SPLP	0.27	0.23	0.23	5

Notes:

--- - not applicable or value not available.

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

B - Constituent detected in investigative and blank sample.

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

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: 500-90850-1
Client Project/Site: IDOT - Lake County - WO 001

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

Attn: Mr. S. Babusukumar



Authorized for release by:
1/23/2015 10:43:42 AM

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 - Lake County - WO 001

TestAmerica Job ID: 500-90850-1

Client Sample ID: A41-4(0-3)-011515

Lab Sample ID: 500-90850-5

Date Collected: 01/15/15 13:55

Matrix: Solid

Date Received: 01/16/15 07:25

Percent Solids: 83.4

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	68		6.0	2.6	ug/Kg	☼		01/20/15 13:27	1
Benzene	<6.0		6.0	0.82	ug/Kg	☼		01/20/15 13:27	1
Bromodichloromethane	<6.0		6.0	1.0	ug/Kg	☼		01/20/15 13:27	1
Bromoform	<6.0		6.0	1.4	ug/Kg	☼		01/20/15 13:27	1
Bromomethane	<6.0		6.0	1.8	ug/Kg	☼		01/20/15 13:27	1
Carbon disulfide	<6.0		6.0	0.90	ug/Kg	☼		01/20/15 13:27	1
Carbon tetrachloride	<6.0		6.0	1.1	ug/Kg	☼		01/20/15 13:27	1
Chlorobenzene	<6.0		6.0	0.61	ug/Kg	☼		01/20/15 13:27	1
Chloroethane	<6.0		6.0	1.6	ug/Kg	☼		01/20/15 13:27	1
Chloroform	<6.0		6.0	0.69	ug/Kg	☼		01/20/15 13:27	1
Chloromethane	<6.0		6.0	1.3	ug/Kg	☼		01/20/15 13:27	1
cis-1,2-Dichloroethene	<6.0		6.0	0.85	ug/Kg	☼		01/20/15 13:27	1
cis-1,3-Dichloropropene	<6.0		6.0	0.79	ug/Kg	☼		01/20/15 13:27	1
Dibromochloromethane	<6.0		6.0	1.0	ug/Kg	☼		01/20/15 13:27	1
1,1-Dichloroethane	<6.0		6.0	0.95	ug/Kg	☼		01/20/15 13:27	1
1,2-Dichloroethane	<6.0		6.0	0.89	ug/Kg	☼		01/20/15 13:27	1
1,1-Dichloroethene	<6.0		6.0	0.97	ug/Kg	☼		01/20/15 13:27	1
1,2-Dichloropropane	<6.0		6.0	0.91	ug/Kg	☼		01/20/15 13:27	1
1,3-Dichloropropene, Total	<6.0		6.0	0.79	ug/Kg	☼		01/20/15 13:27	1
Ethylbenzene	<6.0		6.0	1.2	ug/Kg	☼		01/20/15 13:27	1
2-Hexanone	<6.0		6.0	1.7	ug/Kg	☼		01/20/15 13:27	1
Methylene Chloride	<6.0		6.0	1.6	ug/Kg	☼		01/20/15 13:27	1
Methyl Ethyl Ketone	<6.0		6.0	2.2	ug/Kg	☼		01/20/15 13:27	1
methyl isobutyl ketone	<6.0		6.0	1.6	ug/Kg	☼		01/20/15 13:27	1
Methyl tert-butyl ether	<6.0		6.0	0.99	ug/Kg	☼		01/20/15 13:27	1
Styrene	<6.0		6.0	0.79	ug/Kg	☼		01/20/15 13:27	1
1,1,1,2-Tetrachloroethane	<6.0		6.0	1.2	ug/Kg	☼		01/20/15 13:27	1
Tetrachloroethene	<6.0		6.0	0.92	ug/Kg	☼		01/20/15 13:27	1
Toluene	<6.0		6.0	0.84	ug/Kg	☼		01/20/15 13:27	1
trans-1,2-Dichloroethene	<6.0		6.0	0.83	ug/Kg	☼		01/20/15 13:27	1
trans-1,3-Dichloropropene	<6.0		6.0	1.1	ug/Kg	☼		01/20/15 13:27	1
1,1,1-Trichloroethane	<6.0		6.0	0.90	ug/Kg	☼		01/20/15 13:27	1
1,1,2-Trichloroethane	<6.0		6.0	0.82	ug/Kg	☼		01/20/15 13:27	1
Trichloroethene	<6.0		6.0	0.99	ug/Kg	☼		01/20/15 13:27	1
Vinyl chloride	<6.0		6.0	1.3	ug/Kg	☼		01/20/15 13:27	1
Xylenes, Total	<12		12	0.54	ug/Kg	☼		01/20/15 13:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122		01/20/15 13:27	1
Dibromofluoromethane	104		75 - 120		01/20/15 13:27	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134		01/20/15 13:27	1
Toluene-d8 (Surr)	99		75 - 122		01/20/15 13:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<200		200	42	ug/Kg	☼	01/16/15 16:23	01/21/15 14:23	1
1,2-Dichlorobenzene	<200		200	47	ug/Kg	☼	01/16/15 16:23	01/21/15 14:23	1
1,3-Dichlorobenzene	<200		200	44	ug/Kg	☼	01/16/15 16:23	01/21/15 14:23	1
1,4-Dichlorobenzene	<200		200	50	ug/Kg	☼	01/16/15 16:23	01/21/15 14:23	1
2,2'-oxybis[1-chloropropane]	<200		200	45	ug/Kg	☼	01/16/15 16:23	01/21/15 14:23	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90850-1

Client Sample ID: A41-4(0-3)-011515

Lab Sample ID: 500-90850-5

Date Collected: 01/15/15 13:55

Matrix: Solid

Date Received: 01/16/15 07:25

Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<390		390	89	ug/Kg	☼	01/16/15 16:23	01/21/15 14:23	1
2,4,6-Trichlorophenol	<390		390	130	ug/Kg	☼	01/16/15 16:23	01/21/15 14:23	1
2,4-Dichlorophenol	<390		390	93	ug/Kg	☼	01/16/15 16:23	01/21/15 14:23	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	01/16/15 16:23	01/21/15 14:23	1
2,4-Dinitrophenol	<790		790	690	ug/Kg	☼	01/16/15 16:23	01/21/15 14:23	1
2,4-Dinitrotoluene	<200		200	62	ug/Kg	☼	01/16/15 16:23	01/21/15 14:23	1
2,6-Dinitrotoluene	<200		200	77	ug/Kg	☼	01/16/15 16:23	01/21/15 14:23	1
2-Chloronaphthalene	<200		200	43	ug/Kg	☼	01/16/15 16:23	01/21/15 14:23	1
2-Chlorophenol	<200		200	67	ug/Kg	☼	01/16/15 16:23	01/21/15 14:23	1
2-Methylnaphthalene	<39		39	7.2	ug/Kg	☼	01/16/15 16:23	01/21/15 14:23	1
2-Methylphenol	<200		200	63	ug/Kg	☼	01/16/15 16:23	01/21/15 14:23	1
2-Nitroaniline	<200		200	53	ug/Kg	☼	01/16/15 16:23	01/21/15 14:23	1
2-Nitrophenol	<390		390	93	ug/Kg	☼	01/16/15 16:23	01/21/15 14:23	1
3 & 4 Methylphenol	<200		200	65	ug/Kg	☼	01/16/15 16:23	01/21/15 14:23	1
3,3'-Dichlorobenzidine	<200		200	55	ug/Kg	☼	01/16/15 16:23	01/21/15 14:23	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	01/16/15 16:23	01/21/15 14:23	1
4,6-Dinitro-2-methylphenol	<390		390	310	ug/Kg	☼	01/16/15 16:23	01/21/15 14:23	1
4-Bromophenyl phenyl ether	<200		200	52	ug/Kg	☼	01/16/15 16:23	01/21/15 14:23	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	01/16/15 16:23	01/21/15 14:23	1
4-Chloroaniline	<790		790	180	ug/Kg	☼	01/16/15 16:23	01/21/15 14:23	1
4-Chlorophenyl phenyl ether	<200		200	46	ug/Kg	☼	01/16/15 16:23	01/21/15 14:23	1
4-Nitroaniline	<390		390	160	ug/Kg	☼	01/16/15 16:23	01/21/15 14:23	1
4-Nitrophenol	<790		790	370	ug/Kg	☼	01/16/15 16:23	01/21/15 14:23	1
Acenaphthene	<39		39	7.0	ug/Kg	☼	01/16/15 16:23	01/21/15 14:23	1
Acenaphthylene	<39		39	5.2	ug/Kg	☼	01/16/15 16:23	01/21/15 14:23	1
Anthracene	<39		39	6.5	ug/Kg	☼	01/16/15 16:23	01/21/15 14:23	1
Benzo[a]anthracene	24 J		39	5.3	ug/Kg	☼	01/16/15 16:23	01/21/15 14:23	1
Benzo[a]pyrene	21 J		39	7.6	ug/Kg	☼	01/16/15 16:23	01/21/15 14:23	1
Benzo[b]fluoranthene	35 J		39	8.5	ug/Kg	☼	01/16/15 16:23	01/21/15 14:23	1
Benzo[g,h,i]perylene	21 J		39	13	ug/Kg	☼	01/16/15 16:23	01/21/15 14:23	1
Benzo[k]fluoranthene	18 J		39	12	ug/Kg	☼	01/16/15 16:23	01/21/15 14:23	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	☼	01/16/15 16:23	01/21/15 14:23	1
Bis(2-chloroethyl)ether	<200		200	59	ug/Kg	☼	01/16/15 16:23	01/21/15 14:23	1
Bis(2-ethylhexyl) phthalate	<200		200	72	ug/Kg	☼	01/16/15 16:23	01/21/15 14:23	1
Butyl benzyl phthalate	<200		200	75	ug/Kg	☼	01/16/15 16:23	01/21/15 14:23	1
Carbazole	<200		200	100	ug/Kg	☼	01/16/15 16:23	01/21/15 14:23	1
Chrysene	29 J		39	11	ug/Kg	☼	01/16/15 16:23	01/21/15 14:23	1
Dibenz(a,h)anthracene	<39		39	7.6	ug/Kg	☼	01/16/15 16:23	01/21/15 14:23	1
Dibenzofuran	<200		200	46	ug/Kg	☼	01/16/15 16:23	01/21/15 14:23	1
Diethyl phthalate	<200		200	66	ug/Kg	☼	01/16/15 16:23	01/21/15 14:23	1
Dimethyl phthalate	<200		200	51	ug/Kg	☼	01/16/15 16:23	01/21/15 14:23	1
Di-n-butyl phthalate	<200		200	60	ug/Kg	☼	01/16/15 16:23	01/21/15 14:23	1
Di-n-octyl phthalate	<200		200	64	ug/Kg	☼	01/16/15 16:23	01/21/15 14:23	1
Fluoranthene	44		39	7.3	ug/Kg	☼	01/16/15 16:23	01/21/15 14:23	1
Fluorene	<39		39	5.5	ug/Kg	☼	01/16/15 16:23	01/21/15 14:23	1
Hexachlorobenzene	<79		79	9.1	ug/Kg	☼	01/16/15 16:23	01/21/15 14:23	1
Hexachlorobutadiene	<200		200	62	ug/Kg	☼	01/16/15 16:23	01/21/15 14:23	1
Hexachlorocyclopentadiene	<790		790	230	ug/Kg	☼	01/16/15 16:23	01/21/15 14:23	1
Hexachloroethane	<200		200	60	ug/Kg	☼	01/16/15 16:23	01/21/15 14:23	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90850-1

Client Sample ID: A41-4(0-3)-011515

Lab Sample ID: 500-90850-5

Date Collected: 01/15/15 13:55

Matrix: Solid

Date Received: 01/16/15 07:25

Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	16	J	39	10	ug/Kg	☼	01/16/15 16:23	01/21/15 14:23	1
Isophorone	<200		200	44	ug/Kg	☼	01/16/15 16:23	01/21/15 14:23	1
Naphthalene	<39		39	6.0	ug/Kg	☼	01/16/15 16:23	01/21/15 14:23	1
Nitrobenzene	<39		39	9.8	ug/Kg	☼	01/16/15 16:23	01/21/15 14:23	1
N-Nitrosodi-n-propylamine	<200		200	48	ug/Kg	☼	01/16/15 16:23	01/21/15 14:23	1
N-Nitrosodiphenylamine	<200		200	46	ug/Kg	☼	01/16/15 16:23	01/21/15 14:23	1
Pentachlorophenol	<790		790	630	ug/Kg	☼	01/16/15 16:23	01/21/15 14:23	1
Phenanthrene	20	J	39	5.5	ug/Kg	☼	01/16/15 16:23	01/21/15 14:23	1
Phenol	<200		200	87	ug/Kg	☼	01/16/15 16:23	01/21/15 14:23	1
Pyrene	34	J	39	7.8	ug/Kg	☼	01/16/15 16:23	01/21/15 14:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>2,4,6-Tribromophenol</i>	48		35 - 137				01/16/15 16:23	01/21/15 14:23	1
<i>2-Fluorobiphenyl</i>	36		25 - 119				01/16/15 16:23	01/21/15 14:23	1
<i>2-Fluorophenol</i>	33		25 - 110				01/16/15 16:23	01/21/15 14:23	1
<i>Nitrobenzene-d5</i>	30		25 - 115				01/16/15 16:23	01/21/15 14:23	1
<i>Phenol-d5</i>	37		31 - 110				01/16/15 16:23	01/21/15 14:23	1
<i>Terphenyl-d14</i>	53		36 - 134				01/16/15 16:23	01/21/15 14:23	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/19/15 15:00	01/20/15 19:49	1
Barium	0.51		0.50	0.050	mg/L		01/19/15 15:00	01/20/15 19:49	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/19/15 15:00	01/20/15 19:49	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/19/15 15:00	01/20/15 19:49	1
Chromium	<0.025		0.025	0.010	mg/L		01/19/15 15:00	01/20/15 19:49	1
Cobalt	0.019	J	0.025	0.010	mg/L		01/19/15 15:00	01/20/15 19:49	1
Copper	<0.025		0.025	0.010	mg/L		01/19/15 15:00	01/20/15 19:49	1
Iron	<0.20		0.20	0.20	mg/L		01/19/15 15:00	01/20/15 19:49	1
Lead	0.0085		0.0075	0.0075	mg/L		01/19/15 15:00	01/20/15 19:49	1
Manganese	13		0.025	0.010	mg/L		01/19/15 15:00	01/20/15 19:49	1
Nickel	<0.025		0.025	0.010	mg/L		01/19/15 15:00	01/20/15 19:49	1
Selenium	<0.050		0.050	0.020	mg/L		01/19/15 15:00	01/20/15 19:49	1
Silver	<0.025		0.025	0.010	mg/L		01/19/15 15:00	01/20/15 19:49	1
Zinc	0.031	J	0.10	0.020	mg/L		01/19/15 15:00	01/20/15 19:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.012	J	0.050	0.010	mg/L		01/20/15 14:30	01/22/15 05:05	1
Barium	0.23	J	0.50	0.050	mg/L		01/20/15 14:30	01/22/15 05:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/20/15 14:30	01/22/15 05:05	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/20/15 14:30	01/22/15 05:05	1
Chromium	0.050		0.025	0.010	mg/L		01/20/15 14:30	01/22/15 05:05	1
Cobalt	0.015	J	0.025	0.010	mg/L		01/20/15 14:30	01/22/15 05:05	1
Copper	0.26		0.025	0.010	mg/L		01/20/15 14:30	01/22/15 05:05	1
Iron	39		0.20	0.20	mg/L		01/20/15 14:30	01/22/15 05:05	1
Lead	0.058		0.0075	0.0075	mg/L		01/20/15 14:30	01/22/15 05:05	1
Manganese	0.89		0.025	0.010	mg/L		01/20/15 14:30	01/22/15 05:05	1
Nickel	0.042		0.025	0.010	mg/L		01/20/15 14:30	01/22/15 05:05	1
Selenium	<0.050		0.050	0.020	mg/L		01/20/15 14:30	01/22/15 05:05	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90850-1

Client Sample ID: A41-4(0-3)-011515

Lab Sample ID: 500-90850-5

Date Collected: 01/15/15 13:55

Matrix: Solid

Date Received: 01/16/15 07:25

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		01/20/15 14:30	01/22/15 05:05	1
Zinc	0.23		0.10	0.020	mg/L		01/20/15 14:30	01/22/15 05:05	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.36	J	1.1	0.24	mg/Kg	☼	01/19/15 10:30	01/19/15 22:55	1
Arsenic	6.2		0.57	0.26	mg/Kg	☼	01/19/15 10:30	01/19/15 22:55	1
Barium	67		0.57	0.10	mg/Kg	☼	01/19/15 10:30	01/19/15 22:55	1
Beryllium	0.82		0.23	0.049	mg/Kg	☼	01/19/15 10:30	01/19/15 22:55	1
Cadmium	0.18		0.11	0.033	mg/Kg	☼	01/19/15 10:30	01/19/15 22:55	1
Calcium	16000		11	3.7	mg/Kg	☼	01/19/15 10:30	01/19/15 22:55	1
Chromium	20		0.57	0.098	mg/Kg	☼	01/19/15 10:30	01/19/15 22:55	1
Cobalt	13		0.28	0.064	mg/Kg	☼	01/19/15 10:30	01/19/15 22:55	1
Copper	20		0.57	0.12	mg/Kg	☼	01/19/15 10:30	01/19/15 22:55	1
Iron	20000	B	11	4.4	mg/Kg	☼	01/19/15 10:30	01/19/15 22:55	1
Lead	40		0.28	0.14	mg/Kg	☼	01/19/15 10:30	01/19/15 22:55	1
Magnesium	11000		5.7	2.3	mg/Kg	☼	01/19/15 10:30	01/19/15 22:55	1
Manganese	370		0.57	0.11	mg/Kg	☼	01/19/15 10:30	01/19/15 22:55	1
Nickel	32		0.57	0.15	mg/Kg	☼	01/19/15 10:30	01/19/15 22:55	1
Potassium	2000		28	4.6	mg/Kg	☼	01/19/15 10:30	01/19/15 22:55	1
Selenium	0.39	J	0.57	0.28	mg/Kg	☼	01/19/15 10:30	01/19/15 22:55	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	01/19/15 10:30	01/19/15 22:55	1
Sodium	1000	B	57	7.5	mg/Kg	☼	01/19/15 10:30	01/19/15 22:55	1
Thallium	0.31	J	0.57	0.28	mg/Kg	☼	01/19/15 10:30	01/19/15 22:55	1
Vanadium	28		0.28	0.083	mg/Kg	☼	01/19/15 10:30	01/19/15 22:55	1
Zinc	79	B	1.1	0.36	mg/Kg	☼	01/19/15 10:30	01/20/15 13:44	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		01/19/15 11:30	01/20/15 11:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		01/21/15 11:30	01/22/15 11:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	29		19	6.8	ug/Kg	☼	01/16/15 13:00	01/19/15 10:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.56		0.200	0.200	SU			01/21/15 09:52	1

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90850-1

Client Sample ID: A41-3(0-3)-011515

Lab Sample ID: 500-90850-6

Date Collected: 01/15/15 14:05

Matrix: Solid

Date Received: 01/16/15 07:25

Percent Solids: 83.2

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	59		6.0	2.6	ug/Kg	☼		01/20/15 13:52	1
Benzene	<6.0		6.0	0.82	ug/Kg	☼		01/20/15 13:52	1
Bromodichloromethane	<6.0		6.0	1.0	ug/Kg	☼		01/20/15 13:52	1
Bromoform	<6.0		6.0	1.4	ug/Kg	☼		01/20/15 13:52	1
Bromomethane	<6.0		6.0	1.8	ug/Kg	☼		01/20/15 13:52	1
Carbon disulfide	<6.0		6.0	0.90	ug/Kg	☼		01/20/15 13:52	1
Carbon tetrachloride	<6.0		6.0	1.1	ug/Kg	☼		01/20/15 13:52	1
Chlorobenzene	<6.0		6.0	0.61	ug/Kg	☼		01/20/15 13:52	1
Chloroethane	<6.0		6.0	1.6	ug/Kg	☼		01/20/15 13:52	1
Chloroform	<6.0		6.0	0.69	ug/Kg	☼		01/20/15 13:52	1
Chloromethane	<6.0		6.0	1.3	ug/Kg	☼		01/20/15 13:52	1
cis-1,2-Dichloroethene	<6.0		6.0	0.85	ug/Kg	☼		01/20/15 13:52	1
cis-1,3-Dichloropropene	<6.0		6.0	0.79	ug/Kg	☼		01/20/15 13:52	1
Dibromochloromethane	<6.0		6.0	1.0	ug/Kg	☼		01/20/15 13:52	1
1,1-Dichloroethane	<6.0		6.0	0.95	ug/Kg	☼		01/20/15 13:52	1
1,2-Dichloroethane	<6.0		6.0	0.89	ug/Kg	☼		01/20/15 13:52	1
1,1-Dichloroethene	<6.0		6.0	0.97	ug/Kg	☼		01/20/15 13:52	1
1,2-Dichloropropane	<6.0		6.0	0.91	ug/Kg	☼		01/20/15 13:52	1
1,3-Dichloropropene, Total	<6.0		6.0	0.79	ug/Kg	☼		01/20/15 13:52	1
Ethylbenzene	<6.0		6.0	1.2	ug/Kg	☼		01/20/15 13:52	1
2-Hexanone	<6.0		6.0	1.7	ug/Kg	☼		01/20/15 13:52	1
Methylene Chloride	<6.0		6.0	1.6	ug/Kg	☼		01/20/15 13:52	1
Methyl Ethyl Ketone	<6.0		6.0	2.2	ug/Kg	☼		01/20/15 13:52	1
methyl isobutyl ketone	<6.0		6.0	1.6	ug/Kg	☼		01/20/15 13:52	1
Methyl tert-butyl ether	<6.0		6.0	0.99	ug/Kg	☼		01/20/15 13:52	1
Styrene	<6.0		6.0	0.79	ug/Kg	☼		01/20/15 13:52	1
1,1,2,2-Tetrachloroethane	<6.0		6.0	1.2	ug/Kg	☼		01/20/15 13:52	1
Tetrachloroethene	<6.0		6.0	0.92	ug/Kg	☼		01/20/15 13:52	1
Toluene	<6.0		6.0	0.84	ug/Kg	☼		01/20/15 13:52	1
trans-1,2-Dichloroethene	<6.0		6.0	0.83	ug/Kg	☼		01/20/15 13:52	1
trans-1,3-Dichloropropene	<6.0		6.0	1.1	ug/Kg	☼		01/20/15 13:52	1
1,1,1-Trichloroethane	<6.0		6.0	0.90	ug/Kg	☼		01/20/15 13:52	1
1,1,2-Trichloroethane	<6.0		6.0	0.82	ug/Kg	☼		01/20/15 13:52	1
Trichloroethene	<6.0		6.0	0.99	ug/Kg	☼		01/20/15 13:52	1
Vinyl chloride	<6.0		6.0	1.3	ug/Kg	☼		01/20/15 13:52	1
Xylenes, Total	<12		12	0.54	ug/Kg	☼		01/20/15 13:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122		01/20/15 13:52	1
Dibromofluoromethane	104		75 - 120		01/20/15 13:52	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 134		01/20/15 13:52	1
Toluene-d8 (Surr)	97		75 - 122		01/20/15 13:52	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	☼	01/16/15 16:23	01/21/15 14:45	1
1,2-Dichlorobenzene	<200		200	47	ug/Kg	☼	01/16/15 16:23	01/21/15 14:45	1
1,3-Dichlorobenzene	<200		200	44	ug/Kg	☼	01/16/15 16:23	01/21/15 14:45	1
1,4-Dichlorobenzene	<200		200	50	ug/Kg	☼	01/16/15 16:23	01/21/15 14:45	1
2,2'-oxybis[1-chloropropane]	<200		200	45	ug/Kg	☼	01/16/15 16:23	01/21/15 14:45	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90850-1

Client Sample ID: A41-3(0-3)-011515

Lab Sample ID: 500-90850-6

Date Collected: 01/15/15 14:05

Matrix: Solid

Date Received: 01/16/15 07:25

Percent Solids: 83.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<390		390	89	ug/Kg	☼	01/16/15 16:23	01/21/15 14:45	1
2,4,6-Trichlorophenol	<390		390	130	ug/Kg	☼	01/16/15 16:23	01/21/15 14:45	1
2,4-Dichlorophenol	<390		390	93	ug/Kg	☼	01/16/15 16:23	01/21/15 14:45	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	01/16/15 16:23	01/21/15 14:45	1
2,4-Dinitrophenol	<790		790	690	ug/Kg	☼	01/16/15 16:23	01/21/15 14:45	1
2,4-Dinitrotoluene	<200		200	62	ug/Kg	☼	01/16/15 16:23	01/21/15 14:45	1
2,6-Dinitrotoluene	<200		200	77	ug/Kg	☼	01/16/15 16:23	01/21/15 14:45	1
2-Chloronaphthalene	<200		200	43	ug/Kg	☼	01/16/15 16:23	01/21/15 14:45	1
2-Chlorophenol	<200		200	67	ug/Kg	☼	01/16/15 16:23	01/21/15 14:45	1
2-Methylnaphthalene	<39		39	7.2	ug/Kg	☼	01/16/15 16:23	01/21/15 14:45	1
2-Methylphenol	<200		200	63	ug/Kg	☼	01/16/15 16:23	01/21/15 14:45	1
2-Nitroaniline	<200		200	53	ug/Kg	☼	01/16/15 16:23	01/21/15 14:45	1
2-Nitrophenol	<390		390	93	ug/Kg	☼	01/16/15 16:23	01/21/15 14:45	1
3 & 4 Methylphenol	<200		200	65	ug/Kg	☼	01/16/15 16:23	01/21/15 14:45	1
3,3'-Dichlorobenzidine	<200		200	55	ug/Kg	☼	01/16/15 16:23	01/21/15 14:45	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	01/16/15 16:23	01/21/15 14:45	1
4,6-Dinitro-2-methylphenol	<390		390	310	ug/Kg	☼	01/16/15 16:23	01/21/15 14:45	1
4-Bromophenyl phenyl ether	<200		200	52	ug/Kg	☼	01/16/15 16:23	01/21/15 14:45	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	01/16/15 16:23	01/21/15 14:45	1
4-Chloroaniline	<790		790	180	ug/Kg	☼	01/16/15 16:23	01/21/15 14:45	1
4-Chlorophenyl phenyl ether	<200		200	46	ug/Kg	☼	01/16/15 16:23	01/21/15 14:45	1
4-Nitroaniline	<390		390	160	ug/Kg	☼	01/16/15 16:23	01/21/15 14:45	1
4-Nitrophenol	<790		790	370	ug/Kg	☼	01/16/15 16:23	01/21/15 14:45	1
Acenaphthene	<39		39	7.0	ug/Kg	☼	01/16/15 16:23	01/21/15 14:45	1
Acenaphthylene	<39		39	5.2	ug/Kg	☼	01/16/15 16:23	01/21/15 14:45	1
Anthracene	<39		39	6.5	ug/Kg	☼	01/16/15 16:23	01/21/15 14:45	1
Benzo[a]anthracene	21	J	39	5.3	ug/Kg	☼	01/16/15 16:23	01/21/15 14:45	1
Benzo[a]pyrene	20	J	39	7.6	ug/Kg	☼	01/16/15 16:23	01/21/15 14:45	1
Benzo[b]fluoranthene	31	J	39	8.5	ug/Kg	☼	01/16/15 16:23	01/21/15 14:45	1
Benzo[g,h,i]perylene	23	J	39	13	ug/Kg	☼	01/16/15 16:23	01/21/15 14:45	1
Benzo[k]fluoranthene	13	J	39	12	ug/Kg	☼	01/16/15 16:23	01/21/15 14:45	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	☼	01/16/15 16:23	01/21/15 14:45	1
Bis(2-chloroethyl)ether	<200		200	59	ug/Kg	☼	01/16/15 16:23	01/21/15 14:45	1
Bis(2-ethylhexyl) phthalate	<200		200	72	ug/Kg	☼	01/16/15 16:23	01/21/15 14:45	1
Butyl benzyl phthalate	<200		200	75	ug/Kg	☼	01/16/15 16:23	01/21/15 14:45	1
Carbazole	<200		200	100	ug/Kg	☼	01/16/15 16:23	01/21/15 14:45	1
Chrysene	26	J	39	11	ug/Kg	☼	01/16/15 16:23	01/21/15 14:45	1
Dibenz(a,h)anthracene	<39		39	7.6	ug/Kg	☼	01/16/15 16:23	01/21/15 14:45	1
Dibenzofuran	<200		200	46	ug/Kg	☼	01/16/15 16:23	01/21/15 14:45	1
Diethyl phthalate	<200		200	66	ug/Kg	☼	01/16/15 16:23	01/21/15 14:45	1
Dimethyl phthalate	<200		200	51	ug/Kg	☼	01/16/15 16:23	01/21/15 14:45	1
Di-n-butyl phthalate	<200		200	60	ug/Kg	☼	01/16/15 16:23	01/21/15 14:45	1
Di-n-octyl phthalate	<200		200	64	ug/Kg	☼	01/16/15 16:23	01/21/15 14:45	1
Fluoranthene	37	J	39	7.3	ug/Kg	☼	01/16/15 16:23	01/21/15 14:45	1
Fluorene	<39		39	5.5	ug/Kg	☼	01/16/15 16:23	01/21/15 14:45	1
Hexachlorobenzene	<79		79	9.1	ug/Kg	☼	01/16/15 16:23	01/21/15 14:45	1
Hexachlorobutadiene	<200		200	62	ug/Kg	☼	01/16/15 16:23	01/21/15 14:45	1
Hexachlorocyclopentadiene	<790		790	230	ug/Kg	☼	01/16/15 16:23	01/21/15 14:45	1
Hexachloroethane	<200		200	60	ug/Kg	☼	01/16/15 16:23	01/21/15 14:45	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90850-1

Client Sample ID: A41-3(0-3)-011515

Lab Sample ID: 500-90850-6

Date Collected: 01/15/15 14:05

Matrix: Solid

Date Received: 01/16/15 07:25

Percent Solids: 83.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	15	J	39	10	ug/Kg	☼	01/16/15 16:23	01/21/15 14:45	1
Isophorone	<200		200	44	ug/Kg	☼	01/16/15 16:23	01/21/15 14:45	1
Naphthalene	<39		39	6.0	ug/Kg	☼	01/16/15 16:23	01/21/15 14:45	1
Nitrobenzene	<39		39	9.8	ug/Kg	☼	01/16/15 16:23	01/21/15 14:45	1
N-Nitrosodi-n-propylamine	<200		200	48	ug/Kg	☼	01/16/15 16:23	01/21/15 14:45	1
N-Nitrosodiphenylamine	<200		200	46	ug/Kg	☼	01/16/15 16:23	01/21/15 14:45	1
Pentachlorophenol	<790		790	630	ug/Kg	☼	01/16/15 16:23	01/21/15 14:45	1
Phenanthrene	16	J	39	5.5	ug/Kg	☼	01/16/15 16:23	01/21/15 14:45	1
Phenol	<200		200	87	ug/Kg	☼	01/16/15 16:23	01/21/15 14:45	1
Pyrene	30	J	39	7.8	ug/Kg	☼	01/16/15 16:23	01/21/15 14:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	46		35 - 137				01/16/15 16:23	01/21/15 14:45	1
2-Fluorobiphenyl	26		25 - 119				01/16/15 16:23	01/21/15 14:45	1
2-Fluorophenol	21	X	25 - 110				01/16/15 16:23	01/21/15 14:45	1
Nitrobenzene-d5	18	X	25 - 115				01/16/15 16:23	01/21/15 14:45	1
Phenol-d5	26	X	31 - 110				01/16/15 16:23	01/21/15 14:45	1
Terphenyl-d14	57		36 - 134				01/16/15 16:23	01/21/15 14:45	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		01/19/15 15:00	01/20/15 19:54	1
Barium	0.52		0.50	0.050	mg/L		01/19/15 15:00	01/20/15 19:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/19/15 15:00	01/20/15 19:54	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/19/15 15:00	01/20/15 19:54	1
Chromium	<0.025		0.025	0.010	mg/L		01/19/15 15:00	01/20/15 19:54	1
Cobalt	0.012	J	0.025	0.010	mg/L		01/19/15 15:00	01/20/15 19:54	1
Copper	0.016	J	0.025	0.010	mg/L		01/19/15 15:00	01/20/15 19:54	1
Iron	<0.20		0.20	0.20	mg/L		01/19/15 15:00	01/20/15 19:54	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/19/15 15:00	01/20/15 19:54	1
Manganese	6.8		0.025	0.010	mg/L		01/19/15 15:00	01/20/15 19:54	1
Nickel	<0.025		0.025	0.010	mg/L		01/19/15 15:00	01/20/15 19:54	1
Selenium	<0.050		0.050	0.020	mg/L		01/19/15 15:00	01/20/15 19:54	1
Silver	<0.025		0.025	0.010	mg/L		01/19/15 15:00	01/20/15 19:54	1
Zinc	0.033	J	0.10	0.020	mg/L		01/19/15 15:00	01/20/15 19:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.021	J	0.050	0.010	mg/L		01/20/15 14:30	01/22/15 05:12	1
Barium	0.26	J	0.50	0.050	mg/L		01/20/15 14:30	01/22/15 05:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/20/15 14:30	01/22/15 05:12	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/20/15 14:30	01/22/15 05:12	1
Chromium	0.069		0.025	0.010	mg/L		01/20/15 14:30	01/22/15 05:12	1
Cobalt	0.025		0.025	0.010	mg/L		01/20/15 14:30	01/22/15 05:12	1
Copper	0.14		0.025	0.010	mg/L		01/20/15 14:30	01/22/15 05:12	1
Iron	61		0.20	0.20	mg/L		01/20/15 14:30	01/22/15 05:12	1
Lead	0.087		0.0075	0.0075	mg/L		01/20/15 14:30	01/22/15 05:12	1
Manganese	0.86		0.025	0.010	mg/L		01/20/15 14:30	01/22/15 05:12	1
Nickel	0.065		0.025	0.010	mg/L		01/20/15 14:30	01/22/15 05:12	1
Selenium	<0.050		0.050	0.020	mg/L		01/20/15 14:30	01/22/15 05:12	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90850-1

Client Sample ID: A41-3(0-3)-011515

Lab Sample ID: 500-90850-6

Date Collected: 01/15/15 14:05

Matrix: Solid

Date Received: 01/16/15 07:25

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		01/20/15 14:30	01/22/15 05:12	1
Zinc	0.23		0.10	0.020	mg/L		01/20/15 14:30	01/22/15 05:12	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.33	J	1.2	0.24	mg/Kg	☼	01/19/15 10:30	01/19/15 23:00	1
Arsenic	6.6		0.58	0.27	mg/Kg	☼	01/19/15 10:30	01/19/15 23:00	1
Barium	65		0.58	0.11	mg/Kg	☼	01/19/15 10:30	01/19/15 23:00	1
Beryllium	0.75		0.23	0.050	mg/Kg	☼	01/19/15 10:30	01/19/15 23:00	1
Cadmium	0.19		0.12	0.034	mg/Kg	☼	01/19/15 10:30	01/19/15 23:00	1
Calcium	34000		12	3.7	mg/Kg	☼	01/19/15 10:30	01/20/15 13:49	1
Chromium	18		0.58	0.10	mg/Kg	☼	01/19/15 10:30	01/19/15 23:00	1
Cobalt	13		0.29	0.066	mg/Kg	☼	01/19/15 10:30	01/19/15 23:00	1
Copper	26		0.58	0.13	mg/Kg	☼	01/19/15 10:30	01/19/15 23:00	1
Iron	20000	B	12	4.5	mg/Kg	☼	01/19/15 10:30	01/19/15 23:00	1
Lead	39		0.29	0.14	mg/Kg	☼	01/19/15 10:30	01/19/15 23:00	1
Magnesium	21000		5.8	2.4	mg/Kg	☼	01/19/15 10:30	01/19/15 23:00	1
Manganese	560		0.58	0.12	mg/Kg	☼	01/19/15 10:30	01/19/15 23:00	1
Nickel	30		0.58	0.16	mg/Kg	☼	01/19/15 10:30	01/19/15 23:00	1
Potassium	2200		29	4.7	mg/Kg	☼	01/19/15 10:30	01/19/15 23:00	1
Selenium	0.48	J	0.58	0.29	mg/Kg	☼	01/19/15 10:30	01/19/15 23:00	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	01/19/15 10:30	01/19/15 23:00	1
Sodium	850	B	58	7.7	mg/Kg	☼	01/19/15 10:30	01/19/15 23:00	1
Thallium	0.29	J	0.58	0.29	mg/Kg	☼	01/19/15 10:30	01/19/15 23:00	1
Vanadium	23		0.29	0.085	mg/Kg	☼	01/19/15 10:30	01/19/15 23:00	1
Zinc	95	B	1.2	0.37	mg/Kg	☼	01/19/15 10:30	01/20/15 13:49	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		01/19/15 11:30	01/20/15 11:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		01/21/15 11:30	01/22/15 11:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	29		17	6.0	ug/Kg	☼	01/16/15 13:00	01/19/15 10:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.88		0.200	0.200	SU			01/21/15 10:00	1

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90850-1

Client Sample ID: A41-2(0-3)-011515

Lab Sample ID: 500-90850-7

Date Collected: 01/15/15 14:10

Matrix: Solid

Date Received: 01/16/15 07:25

Percent Solids: 81.9

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	110		6.1	2.6	ug/Kg	☼		01/20/15 14:17	1
Benzene	<6.1		6.1	0.84	ug/Kg	☼		01/20/15 14:17	1
Bromodichloromethane	<6.1		6.1	1.1	ug/Kg	☼		01/20/15 14:17	1
Bromoform	<6.1		6.1	1.4	ug/Kg	☼		01/20/15 14:17	1
Bromomethane	<6.1		6.1	1.8	ug/Kg	☼		01/20/15 14:17	1
Carbon disulfide	<6.1		6.1	0.91	ug/Kg	☼		01/20/15 14:17	1
Carbon tetrachloride	<6.1		6.1	1.1	ug/Kg	☼		01/20/15 14:17	1
Chlorobenzene	<6.1		6.1	0.62	ug/Kg	☼		01/20/15 14:17	1
Chloroethane	<6.1		6.1	1.7	ug/Kg	☼		01/20/15 14:17	1
Chloroform	<6.1		6.1	0.70	ug/Kg	☼		01/20/15 14:17	1
Chloromethane	<6.1		6.1	1.3	ug/Kg	☼		01/20/15 14:17	1
cis-1,2-Dichloroethene	<6.1		6.1	0.86	ug/Kg	☼		01/20/15 14:17	1
cis-1,3-Dichloropropene	<6.1		6.1	0.80	ug/Kg	☼		01/20/15 14:17	1
Dibromochloromethane	<6.1		6.1	1.1	ug/Kg	☼		01/20/15 14:17	1
1,1-Dichloroethane	<6.1		6.1	0.97	ug/Kg	☼		01/20/15 14:17	1
1,2-Dichloroethane	<6.1		6.1	0.90	ug/Kg	☼		01/20/15 14:17	1
1,1,1-Dichloroethene	<6.1		6.1	0.99	ug/Kg	☼		01/20/15 14:17	1
1,2-Dichloropropane	<6.1		6.1	0.93	ug/Kg	☼		01/20/15 14:17	1
1,3-Dichloropropene, Total	<6.1		6.1	0.80	ug/Kg	☼		01/20/15 14:17	1
Ethylbenzene	<6.1		6.1	1.2	ug/Kg	☼		01/20/15 14:17	1
2-Hexanone	<6.1		6.1	1.8	ug/Kg	☼		01/20/15 14:17	1
Methylene Chloride	<6.1		6.1	1.6	ug/Kg	☼		01/20/15 14:17	1
Methyl Ethyl Ketone	13		6.1	2.2	ug/Kg	☼		01/20/15 14:17	1
methyl isobutyl ketone	<6.1		6.1	1.6	ug/Kg	☼		01/20/15 14:17	1
Methyl tert-butyl ether	<6.1		6.1	1.0	ug/Kg	☼		01/20/15 14:17	1
Styrene	<6.1		6.1	0.80	ug/Kg	☼		01/20/15 14:17	1
1,1,1,2-Tetrachloroethane	<6.1		6.1	1.2	ug/Kg	☼		01/20/15 14:17	1
Tetrachloroethene	<6.1		6.1	0.93	ug/Kg	☼		01/20/15 14:17	1
Toluene	<6.1		6.1	0.85	ug/Kg	☼		01/20/15 14:17	1
trans-1,2-Dichloroethene	<6.1		6.1	0.84	ug/Kg	☼		01/20/15 14:17	1
trans-1,3-Dichloropropene	<6.1		6.1	1.1	ug/Kg	☼		01/20/15 14:17	1
1,1,1-Trichloroethane	<6.1		6.1	0.91	ug/Kg	☼		01/20/15 14:17	1
1,1,2-Trichloroethane	<6.1		6.1	0.83	ug/Kg	☼		01/20/15 14:17	1
Trichloroethene	<6.1		6.1	1.0	ug/Kg	☼		01/20/15 14:17	1
Vinyl chloride	<6.1		6.1	1.3	ug/Kg	☼		01/20/15 14:17	1
Xylenes, Total	<12		12	0.55	ug/Kg	☼		01/20/15 14:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122		01/20/15 14:17	1
Dibromofluoromethane	105		75 - 120		01/20/15 14:17	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134		01/20/15 14:17	1
Toluene-d8 (Surr)	97		75 - 122		01/20/15 14:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<200		200	43	ug/Kg	☼	01/16/15 16:23	01/21/15 15:08	1
1,2-Dichlorobenzene	<200		200	48	ug/Kg	☼	01/16/15 16:23	01/21/15 15:08	1
1,3-Dichlorobenzene	<200		200	45	ug/Kg	☼	01/16/15 16:23	01/21/15 15:08	1
1,4-Dichlorobenzene	<200		200	51	ug/Kg	☼	01/16/15 16:23	01/21/15 15:08	1
2,2'-oxybis[1-chloropropane]	<200		200	47	ug/Kg	☼	01/16/15 16:23	01/21/15 15:08	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90850-1

Client Sample ID: A41-2(0-3)-011515

Lab Sample ID: 500-90850-7

Date Collected: 01/15/15 14:10

Matrix: Solid

Date Received: 01/16/15 07:25

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	<400		400	92	ug/Kg	☼	01/16/15 16:23	01/21/15 15:08	1
2,4,6-Trichlorophenol	<400		400	140	ug/Kg	☼	01/16/15 16:23	01/21/15 15:08	1
2,4-Dichlorophenol	<400		400	95	ug/Kg	☼	01/16/15 16:23	01/21/15 15:08	1
2,4-Dimethylphenol	<400		400	150	ug/Kg	☼	01/16/15 16:23	01/21/15 15:08	1
2,4-Dinitrophenol	<810		810	710	ug/Kg	☼	01/16/15 16:23	01/21/15 15:08	1
2,4-Dinitrotoluene	<200		200	64	ug/Kg	☼	01/16/15 16:23	01/21/15 15:08	1
2,6-Dinitrotoluene	<200		200	79	ug/Kg	☼	01/16/15 16:23	01/21/15 15:08	1
2-Chloronaphthalene	<200		200	44	ug/Kg	☼	01/16/15 16:23	01/21/15 15:08	1
2-Chlorophenol	<200		200	69	ug/Kg	☼	01/16/15 16:23	01/21/15 15:08	1
2-Methylnaphthalene	<40		40	7.4	ug/Kg	☼	01/16/15 16:23	01/21/15 15:08	1
2-Methylphenol	<200		200	64	ug/Kg	☼	01/16/15 16:23	01/21/15 15:08	1
2-Nitroaniline	<200		200	54	ug/Kg	☼	01/16/15 16:23	01/21/15 15:08	1
2-Nitrophenol	<400		400	95	ug/Kg	☼	01/16/15 16:23	01/21/15 15:08	1
3 & 4 Methylphenol	<200		200	67	ug/Kg	☼	01/16/15 16:23	01/21/15 15:08	1
3,3'-Dichlorobenzidine	<200		200	56	ug/Kg	☼	01/16/15 16:23	01/21/15 15:08	1
3-Nitroaniline	<400		400	120	ug/Kg	☼	01/16/15 16:23	01/21/15 15:08	1
4,6-Dinitro-2-methylphenol	<400		400	320	ug/Kg	☼	01/16/15 16:23	01/21/15 15:08	1
4-Bromophenyl phenyl ether	<200		200	53	ug/Kg	☼	01/16/15 16:23	01/21/15 15:08	1
4-Chloro-3-methylphenol	<400		400	140	ug/Kg	☼	01/16/15 16:23	01/21/15 15:08	1
4-Chloroaniline	<810		810	190	ug/Kg	☼	01/16/15 16:23	01/21/15 15:08	1
4-Chlorophenyl phenyl ether	<200		200	47	ug/Kg	☼	01/16/15 16:23	01/21/15 15:08	1
4-Nitroaniline	<400		400	170	ug/Kg	☼	01/16/15 16:23	01/21/15 15:08	1
4-Nitrophenol	<810		810	380	ug/Kg	☼	01/16/15 16:23	01/21/15 15:08	1
Acenaphthene	<40		40	7.2	ug/Kg	☼	01/16/15 16:23	01/21/15 15:08	1
Acenaphthylene	<40		40	5.3	ug/Kg	☼	01/16/15 16:23	01/21/15 15:08	1
Anthracene	<40		40	6.7	ug/Kg	☼	01/16/15 16:23	01/21/15 15:08	1
Benzo[a]anthracene	30	J	40	5.4	ug/Kg	☼	01/16/15 16:23	01/21/15 15:08	1
Benzo[a]pyrene	27	J	40	7.8	ug/Kg	☼	01/16/15 16:23	01/21/15 15:08	1
Benzo[b]fluoranthene	41		40	8.7	ug/Kg	☼	01/16/15 16:23	01/21/15 15:08	1
Benzo[g,h,i]perylene	28	J	40	13	ug/Kg	☼	01/16/15 16:23	01/21/15 15:08	1
Benzo[k]fluoranthene	17	J	40	12	ug/Kg	☼	01/16/15 16:23	01/21/15 15:08	1
Bis(2-chloroethoxy)methane	<200		200	41	ug/Kg	☼	01/16/15 16:23	01/21/15 15:08	1
Bis(2-chloroethyl)ether	<200		200	60	ug/Kg	☼	01/16/15 16:23	01/21/15 15:08	1
Bis(2-ethylhexyl) phthalate	<200		200	73	ug/Kg	☼	01/16/15 16:23	01/21/15 15:08	1
Butyl benzyl phthalate	<200		200	76	ug/Kg	☼	01/16/15 16:23	01/21/15 15:08	1
Carbazole	<200		200	100	ug/Kg	☼	01/16/15 16:23	01/21/15 15:08	1
Chrysene	36	J	40	11	ug/Kg	☼	01/16/15 16:23	01/21/15 15:08	1
Dibenz(a,h)anthracene	<40		40	7.8	ug/Kg	☼	01/16/15 16:23	01/21/15 15:08	1
Dibenzofuran	<200		200	47	ug/Kg	☼	01/16/15 16:23	01/21/15 15:08	1
Diethyl phthalate	<200		200	68	ug/Kg	☼	01/16/15 16:23	01/21/15 15:08	1
Dimethyl phthalate	<200		200	52	ug/Kg	☼	01/16/15 16:23	01/21/15 15:08	1
Di-n-butyl phthalate	<200		200	61	ug/Kg	☼	01/16/15 16:23	01/21/15 15:08	1
Di-n-octyl phthalate	<200		200	65	ug/Kg	☼	01/16/15 16:23	01/21/15 15:08	1
Fluoranthene	49		40	7.4	ug/Kg	☼	01/16/15 16:23	01/21/15 15:08	1
Fluorene	<40		40	5.6	ug/Kg	☼	01/16/15 16:23	01/21/15 15:08	1
Hexachlorobenzene	<81		81	9.3	ug/Kg	☼	01/16/15 16:23	01/21/15 15:08	1
Hexachlorobutadiene	<200		200	63	ug/Kg	☼	01/16/15 16:23	01/21/15 15:08	1
Hexachlorocyclopentadiene	<810		810	230	ug/Kg	☼	01/16/15 16:23	01/21/15 15:08	1
Hexachloroethane	<200		200	61	ug/Kg	☼	01/16/15 16:23	01/21/15 15:08	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90850-1

Client Sample ID: A41-2(0-3)-011515

Lab Sample ID: 500-90850-7

Date Collected: 01/15/15 14:10

Matrix: Solid

Date Received: 01/16/15 07:25

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	23	J	40	10	ug/Kg	☼	01/16/15 16:23	01/21/15 15:08	1
Isophorone	<200		200	45	ug/Kg	☼	01/16/15 16:23	01/21/15 15:08	1
Naphthalene	<40		40	6.2	ug/Kg	☼	01/16/15 16:23	01/21/15 15:08	1
Nitrobenzene	<40		40	10	ug/Kg	☼	01/16/15 16:23	01/21/15 15:08	1
N-Nitrosodi-n-propylamine	<200		200	49	ug/Kg	☼	01/16/15 16:23	01/21/15 15:08	1
N-Nitrosodiphenylamine	<200		200	47	ug/Kg	☼	01/16/15 16:23	01/21/15 15:08	1
Pentachlorophenol	<810		810	640	ug/Kg	☼	01/16/15 16:23	01/21/15 15:08	1
Phenanthrene	22	J	40	5.6	ug/Kg	☼	01/16/15 16:23	01/21/15 15:08	1
Phenol	<200		200	89	ug/Kg	☼	01/16/15 16:23	01/21/15 15:08	1
Pyrene	46		40	8.0	ug/Kg	☼	01/16/15 16:23	01/21/15 15:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>2,4,6-Tribromophenol</i>	66		35 - 137				01/16/15 16:23	01/21/15 15:08	1
<i>2-Fluorobiphenyl</i>	59		25 - 119				01/16/15 16:23	01/21/15 15:08	1
<i>2-Fluorophenol</i>	55		25 - 110				01/16/15 16:23	01/21/15 15:08	1
<i>Nitrobenzene-d5</i>	49		25 - 115				01/16/15 16:23	01/21/15 15:08	1
<i>Phenol-d5</i>	59		31 - 110				01/16/15 16:23	01/21/15 15:08	1
<i>Terphenyl-d14</i>	79		36 - 134				01/16/15 16:23	01/21/15 15:08	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		01/19/15 15:00	01/20/15 20:00	1
Barium	0.53		0.50	0.050	mg/L		01/19/15 15:00	01/20/15 20:00	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/19/15 15:00	01/20/15 20:00	1
Cadmium	0.0025	J	0.0050	0.0020	mg/L		01/19/15 15:00	01/20/15 20:00	1
Chromium	<0.025		0.025	0.010	mg/L		01/19/15 15:00	01/20/15 20:00	1
Cobalt	0.031		0.025	0.010	mg/L		01/19/15 15:00	01/20/15 20:00	1
Copper	<0.025		0.025	0.010	mg/L		01/19/15 15:00	01/20/15 20:00	1
Iron	0.59		0.20	0.20	mg/L		01/19/15 15:00	01/20/15 20:00	1
Lead	0.021		0.0075	0.0075	mg/L		01/19/15 15:00	01/20/15 20:00	1
Manganese	9.4		0.025	0.010	mg/L		01/19/15 15:00	01/20/15 20:00	1
Nickel	0.019	J	0.025	0.010	mg/L		01/19/15 15:00	01/20/15 20:00	1
Selenium	<0.050		0.050	0.020	mg/L		01/19/15 15:00	01/20/15 20:00	1
Silver	<0.025		0.025	0.010	mg/L		01/19/15 15:00	01/20/15 20:00	1
Zinc	0.052	J	0.10	0.020	mg/L		01/19/15 15:00	01/20/15 20:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.027	J	0.050	0.010	mg/L		01/20/15 14:30	01/22/15 05:33	1
Barium	0.44	J	0.50	0.050	mg/L		01/20/15 14:30	01/22/15 05:33	1
Beryllium	0.0047		0.0040	0.0040	mg/L		01/20/15 14:30	01/22/15 05:33	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/20/15 14:30	01/22/15 05:33	1
Chromium	0.11		0.025	0.010	mg/L		01/20/15 14:30	01/22/15 05:33	1
Cobalt	0.032		0.025	0.010	mg/L		01/20/15 14:30	01/22/15 05:33	1
Copper	0.20		0.025	0.010	mg/L		01/20/15 14:30	01/22/15 05:33	1
Iron	86		0.20	0.20	mg/L		01/20/15 14:30	01/22/15 05:33	1
Lead	0.091		0.0075	0.0075	mg/L		01/20/15 14:30	01/22/15 05:33	1
Manganese	0.93		0.025	0.010	mg/L		01/20/15 14:30	01/22/15 05:33	1
Nickel	0.098		0.025	0.010	mg/L		01/20/15 14:30	01/22/15 05:33	1
Selenium	<0.050		0.050	0.020	mg/L		01/20/15 14:30	01/22/15 05:33	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90850-1

Client Sample ID: A41-2(0-3)-011515

Lab Sample ID: 500-90850-7

Date Collected: 01/15/15 14:10

Matrix: Solid

Date Received: 01/16/15 07:25

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		01/20/15 14:30	01/22/15 05:33	1
Zinc	0.27		0.10	0.020	mg/L		01/20/15 14:30	01/22/15 05:33	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.28	J	1.2	0.24	mg/Kg	☼	01/19/15 10:30	01/19/15 23:13	1
Arsenic	6.2		0.59	0.27	mg/Kg	☼	01/19/15 10:30	01/19/15 23:13	1
Barium	77		0.59	0.11	mg/Kg	☼	01/19/15 10:30	01/19/15 23:13	1
Beryllium	0.86		0.24	0.051	mg/Kg	☼	01/19/15 10:30	01/19/15 23:13	1
Cadmium	0.20		0.12	0.034	mg/Kg	☼	01/19/15 10:30	01/19/15 23:13	1
Calcium	17000		12	3.8	mg/Kg	☼	01/19/15 10:30	01/19/15 23:13	1
Chromium	22		0.59	0.10	mg/Kg	☼	01/19/15 10:30	01/19/15 23:13	1
Cobalt	15		0.29	0.066	mg/Kg	☼	01/19/15 10:30	01/19/15 23:13	1
Copper	22		0.59	0.13	mg/Kg	☼	01/19/15 10:30	01/19/15 23:13	1
Iron	20000	B	12	4.5	mg/Kg	☼	01/19/15 10:30	01/19/15 23:13	1
Lead	49		0.29	0.15	mg/Kg	☼	01/19/15 10:30	01/19/15 23:13	1
Magnesium	12000		5.9	2.4	mg/Kg	☼	01/19/15 10:30	01/20/15 13:57	1
Manganese	460		0.59	0.12	mg/Kg	☼	01/19/15 10:30	01/19/15 23:13	1
Nickel	33		0.59	0.16	mg/Kg	☼	01/19/15 10:30	01/19/15 23:13	1
Potassium	2300		29	4.8	mg/Kg	☼	01/19/15 10:30	01/19/15 23:13	1
Selenium	0.46	J	0.59	0.29	mg/Kg	☼	01/19/15 10:30	01/19/15 23:13	1
Silver	<0.29		0.29	0.069	mg/Kg	☼	01/19/15 10:30	01/19/15 23:13	1
Sodium	870	B	59	7.8	mg/Kg	☼	01/19/15 10:30	01/19/15 23:13	1
Thallium	<0.59		0.59	0.29	mg/Kg	☼	01/19/15 10:30	01/19/15 23:13	1
Vanadium	26		0.29	0.086	mg/Kg	☼	01/19/15 10:30	01/19/15 23:13	1
Zinc	75	B	1.2	0.37	mg/Kg	☼	01/19/15 10:30	01/20/15 13:57	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		01/19/15 11:30	01/20/15 11:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		01/21/15 11:30	01/22/15 11:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	34		18	6.3	ug/Kg	☼	01/16/15 13:00	01/19/15 10:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.92		0.200	0.200	SU			01/21/15 10:09	1

Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90850-1

Qualifiers

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.
F1	MS and/or MSD Recovery exceeds the control limits
F2	MS/MSD RPD exceeds control limits
X	Surrogate is outside control limits

Metals

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90850-1

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-15

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

Analysis Method	Prep Method	Matrix	Analyte
7470A	7470A	Solid	Mercury
8260B		Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

TestAmerica

THE LEADER IN ENVIRONMENTAL

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



500-90850 COC

Report To (optional)
Contact: S. Babusukumar
Company: Weston Solutions
Address: 300 Plaza Circle Ste 202
Address: Mundelein, IL 60060
Phone: (815) 224-1224
Fax: (224) 864-7200
E-Mail:

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

Chain of Custody Record

Lab Job #: 500-90850
Chain of Custody Number:
Page 3 of 3
Temperature °C of Cooler: 3.1/3.5

Client		Client Project #		Preservative		Parameter		Preservative Key	
Weston				7	7	7	7	7	<ol style="list-style-type: none"> 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
Project Name		Lab Project #		# of Containers		Matrix		Comments	
IDOT 001									
Project Location/State		Lab Project #		Matrix		Matrix		Comments	
IL									
Sampler		Lab PM		Matrix		Matrix		Comments	
M. Strow		D. Wright							
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	Matrix	Matrix	Matrix
1		W-6(0-3)-011515	1/15/15	1250	2	S	VOCs	SVOCs	Total Metals
2		W-6(0-3)-011515D		1250					TEMP/SPLP
3		OT-1(0-3)-011515		1310					Metals
4		A45-1(0-3)-011515		1330					pH
		A43-1(0-3)-011515							
5		A41-4(0-3)-011515		1355					
6		A41-3(0-3)-011515		1405					
7		A41-2(0-3)-011515		1410					
8		A41-1(0-3)-011515		1420					
9		ROW-3(0-3)-011515		1435					

~~MA NOT INCLUDED MA~~

Turnaround Time Required (Business Days)

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

Standard

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>Weston</u> Company <u>M. Strow</u>	Date <u>1/15/15</u>	Time <u>1500</u>	Received By <u>[Signature]</u> Company <u>TA</u>	Date <u>1/15/15</u>	Time <u>1500</u>
Relinquished By <u>[Signature]</u> Company <u>TA</u>	Date <u>1/15/15</u>	Time <u>1655</u>	Received By <u>[Signature]</u> Company <u>TA-CHT</u>	Date <u>1/16/15</u>	Time <u>0725</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:



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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 346: US 41 from IL 21 to West Park Ave Office Phone Number, if available: _____

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

1134 N. Skokie Highway (US 41)

City: Gurnee State: IL Zip Code: _____

County: Lake Township: _____

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

Latitude: 42.37660782 Longitude: -87.90174134
(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: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

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

Project Name: FAP 346: US 41 from IL 21 to West Park AveLatitude: 42.37660782 Longitude: -87.90174134Uncontaminated Site Certification**III. Basis for Certification and Attachments**

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

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

LOCATION OT-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2668A-42. SEE FIGURE 3-4 AND TABLE 4-1 OF THE REVISED 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]:

TEST AMERICA ANALYTICAL REPORT - JOB ID: 500-90850-1

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

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

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

Company Name: Illinois Department of TransportationStreet Address: 2300 South Dirksen ParkwayCity: Springfield State: IL Zip Code: 62764Phone: 217-785-4246Kurt T. Fischer P.G.

Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Date:

2/9/15



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

Summary Table of ISGS Site No. 2668A-42
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 346: US Route 41 (Skokie Highway) from IL Route 21 to West Park Avenue
Gurnee, Park City, Waukegan, and North Chicago, Lake County, Illinois

Field Sample ID	OT-1(0-3)-011515	Soil Reference Concentrations^A
Sample Date	1/15/2015	
Location ID	OT-1	
Depth	0 - 3	
ISGS Site Number	2668A-42	
Parameter		
Laboratory pH (s.u.)	7.47	<6.25,>9.0
VOCs (ug/kg)		
Acetone	41	25000
SVOCs (ug/kg)		
Benzo(b)fluoranthene	9 J	900 / 1500 / 2100
Fluoranthene	10 J	3100000
Pyrene	9.2 J	2300000
Total Metals (mg/kg)		
Antimony, Total	0.26 J	5
Arsenic, Total	6.1	11.3 / 13
Barium, Total	60	1500
Beryllium, Total	0.77	22
Cadmium, Total	0.17	5.2
Calcium, Total	25000	---
Chromium, Total	19	21
Cobalt, Total	12	20
Copper, Total	30	2900
Iron, Total	19000 B	15000 / 15900
Lead, Total	34	107
Magnesium, Total	16000	325000
Manganese, Total	410	630 / 636
Mercury, Total	0.038	0.89
Nickel, Total	30	100
Potassium, Total	2100	---
Selenium, Total	0.3 J	1.3
Sodium, Total	1600 B	---
Vanadium, Total	24	550
Zinc, Total	150 B	5100
TCLP Metals (mg/l)		
Barium, TCLP	0.54	2
Cadmium, TCLP	0.002 J	0.005
Cobalt, TCLP	0.01 J	1
Manganese, TCLP	9.2	0.15
Zinc, TCLP	0.027 J	5
SPLP Metals (mg/l)		
Arsenic, SPLP	0.031 J	0.05
Barium, SPLP	0.39 J	2
Beryllium, SPLP	0.0047	0.004
Chromium, SPLP	0.11	0.1
Cobalt, SPLP	0.036	1
Copper, SPLP	0.22	0.65
Iron, SPLP	96	5
Lead, SPLP	0.067	0.0075
Manganese, SPLP	1.1	0.15
Nickel, SPLP	0.1	0.1
Zinc, SPLP	0.3	5

Notes:

--- - not applicable or value not available.

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

B - Constituent detected in investigative and blank sample.

J - Estimated concentration.

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: 500-90850-1
Client Project/Site: IDOT - Lake County - WO 001

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

Attn: Mr. S. Babusukumar



Authorized for release by:
1/23/2015 10:43:42 AM

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

LINKS

Review your project
results through
TotalAccess

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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 - Lake County - WO 001

TestAmerica Job ID: 500-90850-1

Client Sample ID: OT-1(0-3)-011515

Lab Sample ID: 500-90850-3

Date Collected: 01/15/15 13:10

Matrix: Solid

Date Received: 01/16/15 07:25

Percent Solids: 84.4

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	41		5.9	2.6	ug/Kg	☼		01/20/15 12:37	1
Benzene	<5.9		5.9	0.81	ug/Kg	☼		01/20/15 12:37	1
Bromodichloromethane	<5.9		5.9	1.0	ug/Kg	☼		01/20/15 12:37	1
Bromoform	<5.9		5.9	1.4	ug/Kg	☼		01/20/15 12:37	1
Bromomethane	<5.9		5.9	1.8	ug/Kg	☼		01/20/15 12:37	1
Carbon disulfide	<5.9		5.9	0.88	ug/Kg	☼		01/20/15 12:37	1
Carbon tetrachloride	<5.9		5.9	1.1	ug/Kg	☼		01/20/15 12:37	1
Chlorobenzene	<5.9		5.9	0.60	ug/Kg	☼		01/20/15 12:37	1
Chloroethane	<5.9		5.9	1.6	ug/Kg	☼		01/20/15 12:37	1
Chloroform	<5.9		5.9	0.68	ug/Kg	☼		01/20/15 12:37	1
Chloromethane	<5.9		5.9	1.2	ug/Kg	☼		01/20/15 12:37	1
cis-1,2-Dichloroethene	<5.9		5.9	0.84	ug/Kg	☼		01/20/15 12:37	1
cis-1,3-Dichloropropene	<5.9		5.9	0.78	ug/Kg	☼		01/20/15 12:37	1
Dibromochloromethane	<5.9		5.9	1.0	ug/Kg	☼		01/20/15 12:37	1
1,1-Dichloroethane	<5.9		5.9	0.94	ug/Kg	☼		01/20/15 12:37	1
1,2-Dichloroethane	<5.9		5.9	0.88	ug/Kg	☼		01/20/15 12:37	1
1,1-Dichloroethene	<5.9		5.9	0.96	ug/Kg	☼		01/20/15 12:37	1
1,2-Dichloropropane	<5.9		5.9	0.90	ug/Kg	☼		01/20/15 12:37	1
1,3-Dichloropropene, Total	<5.9		5.9	0.78	ug/Kg	☼		01/20/15 12:37	1
Ethylbenzene	<5.9		5.9	1.2	ug/Kg	☼		01/20/15 12:37	1
2-Hexanone	<5.9		5.9	1.7	ug/Kg	☼		01/20/15 12:37	1
Methylene Chloride	<5.9		5.9	1.6	ug/Kg	☼		01/20/15 12:37	1
Methyl Ethyl Ketone	<5.9		5.9	2.1	ug/Kg	☼		01/20/15 12:37	1
methyl isobutyl ketone	<5.9		5.9	1.6	ug/Kg	☼		01/20/15 12:37	1
Methyl tert-butyl ether	<5.9		5.9	0.98	ug/Kg	☼		01/20/15 12:37	1
Styrene	<5.9		5.9	0.78	ug/Kg	☼		01/20/15 12:37	1
1,1,2,2-Tetrachloroethane	<5.9		5.9	1.2	ug/Kg	☼		01/20/15 12:37	1
Tetrachloroethene	<5.9		5.9	0.91	ug/Kg	☼		01/20/15 12:37	1
Toluene	<5.9		5.9	0.83	ug/Kg	☼		01/20/15 12:37	1
trans-1,2-Dichloroethene	<5.9		5.9	0.81	ug/Kg	☼		01/20/15 12:37	1
trans-1,3-Dichloropropene	<5.9		5.9	1.1	ug/Kg	☼		01/20/15 12:37	1
1,1,1-Trichloroethane	<5.9		5.9	0.88	ug/Kg	☼		01/20/15 12:37	1
1,1,2-Trichloroethane	<5.9		5.9	0.81	ug/Kg	☼		01/20/15 12:37	1
Trichloroethene	<5.9		5.9	0.98	ug/Kg	☼		01/20/15 12:37	1
Vinyl chloride	<5.9		5.9	1.2	ug/Kg	☼		01/20/15 12:37	1
Xylenes, Total	<12		12	0.54	ug/Kg	☼		01/20/15 12:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 122		01/20/15 12:37	1
Dibromofluoromethane	104		75 - 120		01/20/15 12:37	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134		01/20/15 12:37	1
Toluene-d8 (Surr)	99		75 - 122		01/20/15 12:37	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	☼	01/16/15 16:23	01/21/15 13:37	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	01/16/15 16:23	01/21/15 13:37	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	01/16/15 16:23	01/21/15 13:37	1
1,4-Dichlorobenzene	<190		190	50	ug/Kg	☼	01/16/15 16:23	01/21/15 13:37	1
2,2'-oxybis[1-chloropropane]	<190		190	45	ug/Kg	☼	01/16/15 16:23	01/21/15 13:37	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90850-1

Client Sample ID: OT-1(0-3)-011515

Lab Sample ID: 500-90850-3

Date Collected: 01/15/15 13:10

Matrix: Solid

Date Received: 01/16/15 07:25

Percent Solids: 84.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<380		380	88	ug/Kg	☼	01/16/15 16:23	01/21/15 13:37	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	01/16/15 16:23	01/21/15 13:37	1
2,4-Dichlorophenol	<380		380	92	ug/Kg	☼	01/16/15 16:23	01/21/15 13:37	1
2,4-Dimethylphenol	<380		380	150	ug/Kg	☼	01/16/15 16:23	01/21/15 13:37	1
2,4-Dinitrophenol	<780		780	680	ug/Kg	☼	01/16/15 16:23	01/21/15 13:37	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	01/16/15 16:23	01/21/15 13:37	1
2,6-Dinitrotoluene	<190		190	76	ug/Kg	☼	01/16/15 16:23	01/21/15 13:37	1
2-Chloronaphthalene	<190		190	43	ug/Kg	☼	01/16/15 16:23	01/21/15 13:37	1
2-Chlorophenol	<190		190	66	ug/Kg	☼	01/16/15 16:23	01/21/15 13:37	1
2-Methylnaphthalene	<38		38	7.1	ug/Kg	☼	01/16/15 16:23	01/21/15 13:37	1
2-Methylphenol	<190		190	62	ug/Kg	☼	01/16/15 16:23	01/21/15 13:37	1
2-Nitroaniline	<190		190	52	ug/Kg	☼	01/16/15 16:23	01/21/15 13:37	1
2-Nitrophenol	<380		380	91	ug/Kg	☼	01/16/15 16:23	01/21/15 13:37	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	☼	01/16/15 16:23	01/21/15 13:37	1
3,3'-Dichlorobenzidine	<190		190	54	ug/Kg	☼	01/16/15 16:23	01/21/15 13:37	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	01/16/15 16:23	01/21/15 13:37	1
4,6-Dinitro-2-methylphenol	<380		380	310	ug/Kg	☼	01/16/15 16:23	01/21/15 13:37	1
4-Bromophenyl phenyl ether	<190		190	51	ug/Kg	☼	01/16/15 16:23	01/21/15 13:37	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	01/16/15 16:23	01/21/15 13:37	1
4-Chloroaniline	<780		780	180	ug/Kg	☼	01/16/15 16:23	01/21/15 13:37	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	01/16/15 16:23	01/21/15 13:37	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	01/16/15 16:23	01/21/15 13:37	1
4-Nitrophenol	<780		780	370	ug/Kg	☼	01/16/15 16:23	01/21/15 13:37	1
Acenaphthene	<38		38	6.9	ug/Kg	☼	01/16/15 16:23	01/21/15 13:37	1
Acenaphthylene	<38		38	5.1	ug/Kg	☼	01/16/15 16:23	01/21/15 13:37	1
Anthracene	<38		38	6.5	ug/Kg	☼	01/16/15 16:23	01/21/15 13:37	1
Benzo[a]anthracene	<38		38	5.2	ug/Kg	☼	01/16/15 16:23	01/21/15 13:37	1
Benzo[a]pyrene	<38		38	7.5	ug/Kg	☼	01/16/15 16:23	01/21/15 13:37	1
Benzo[b]fluoranthene	9.0	J	38	8.3	ug/Kg	☼	01/16/15 16:23	01/21/15 13:37	1
Benzo[g,h,i]perylene	<38		38	12	ug/Kg	☼	01/16/15 16:23	01/21/15 13:37	1
Benzo[k]fluoranthene	<38		38	11	ug/Kg	☼	01/16/15 16:23	01/21/15 13:37	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	01/16/15 16:23	01/21/15 13:37	1
Bis(2-chloroethyl)ether	<190		190	58	ug/Kg	☼	01/16/15 16:23	01/21/15 13:37	1
Bis(2-ethylhexyl) phthalate	<190		190	71	ug/Kg	☼	01/16/15 16:23	01/21/15 13:37	1
Butyl benzyl phthalate	<190		190	73	ug/Kg	☼	01/16/15 16:23	01/21/15 13:37	1
Carbazole	<190		190	100	ug/Kg	☼	01/16/15 16:23	01/21/15 13:37	1
Chrysene	<38		38	11	ug/Kg	☼	01/16/15 16:23	01/21/15 13:37	1
Dibenz(a,h)anthracene	<38		38	7.5	ug/Kg	☼	01/16/15 16:23	01/21/15 13:37	1
Dibenzofuran	<190		190	45	ug/Kg	☼	01/16/15 16:23	01/21/15 13:37	1
Diethyl phthalate	<190		190	65	ug/Kg	☼	01/16/15 16:23	01/21/15 13:37	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	01/16/15 16:23	01/21/15 13:37	1
Di-n-butyl phthalate	<190		190	59	ug/Kg	☼	01/16/15 16:23	01/21/15 13:37	1
Di-n-octyl phthalate	<190		190	63	ug/Kg	☼	01/16/15 16:23	01/21/15 13:37	1
Fluoranthene	10	J	38	7.2	ug/Kg	☼	01/16/15 16:23	01/21/15 13:37	1
Fluorene	<38		38	5.4	ug/Kg	☼	01/16/15 16:23	01/21/15 13:37	1
Hexachlorobenzene	<78		78	9.0	ug/Kg	☼	01/16/15 16:23	01/21/15 13:37	1
Hexachlorobutadiene	<190		190	61	ug/Kg	☼	01/16/15 16:23	01/21/15 13:37	1
Hexachlorocyclopentadiene	<780		780	220	ug/Kg	☼	01/16/15 16:23	01/21/15 13:37	1
Hexachloroethane	<190		190	59	ug/Kg	☼	01/16/15 16:23	01/21/15 13:37	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90850-1

Client Sample ID: OT-1(0-3)-011515

Lab Sample ID: 500-90850-3

Date Collected: 01/15/15 13:10

Matrix: Solid

Date Received: 01/16/15 07:25

Percent Solids: 84.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<38		38	10	ug/Kg	☼	01/16/15 16:23	01/21/15 13:37	1
Isophorone	<190		190	43	ug/Kg	☼	01/16/15 16:23	01/21/15 13:37	1
Naphthalene	<38		38	5.9	ug/Kg	☼	01/16/15 16:23	01/21/15 13:37	1
Nitrobenzene	<38		38	9.6	ug/Kg	☼	01/16/15 16:23	01/21/15 13:37	1
N-Nitrosodi-n-propylamine	<190		190	47	ug/Kg	☼	01/16/15 16:23	01/21/15 13:37	1
N-Nitrosodiphenylamine	<190		190	46	ug/Kg	☼	01/16/15 16:23	01/21/15 13:37	1
Pentachlorophenol	<780		780	620	ug/Kg	☼	01/16/15 16:23	01/21/15 13:37	1
Phenanthrene	<38		38	5.4	ug/Kg	☼	01/16/15 16:23	01/21/15 13:37	1
Phenol	<190		190	86	ug/Kg	☼	01/16/15 16:23	01/21/15 13:37	1
Pyrene	9.2	J	38	7.7	ug/Kg	☼	01/16/15 16:23	01/21/15 13:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	41		35 - 137	01/16/15 16:23	01/21/15 13:37	1
2-Fluorobiphenyl	41		25 - 119	01/16/15 16:23	01/21/15 13:37	1
2-Fluorophenol	41		25 - 110	01/16/15 16:23	01/21/15 13:37	1
Nitrobenzene-d5	38		25 - 115	01/16/15 16:23	01/21/15 13:37	1
Phenol-d5	44		31 - 110	01/16/15 16:23	01/21/15 13:37	1
Terphenyl-d14	54		36 - 134	01/16/15 16:23	01/21/15 13:37	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/19/15 15:00	01/20/15 14:51	1
Barium	0.54		0.50	0.050	mg/L		01/19/15 15:00	01/20/15 14:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/19/15 15:00	01/20/15 14:51	1
Cadmium	0.0020	J	0.0050	0.0020	mg/L		01/19/15 15:00	01/20/15 14:51	1
Chromium	<0.025		0.025	0.010	mg/L		01/19/15 15:00	01/20/15 14:51	1
Cobalt	0.010	J	0.025	0.010	mg/L		01/19/15 15:00	01/20/15 14:51	1
Copper	<0.025		0.025	0.010	mg/L		01/19/15 15:00	01/20/15 14:51	1
Iron	<0.20		0.20	0.20	mg/L		01/19/15 15:00	01/20/15 14:51	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/19/15 15:00	01/20/15 14:51	1
Manganese	9.2		0.025	0.010	mg/L		01/19/15 15:00	01/20/15 14:51	1
Nickel	<0.025		0.025	0.010	mg/L		01/19/15 15:00	01/20/15 14:51	1
Selenium	<0.050		0.050	0.020	mg/L		01/19/15 15:00	01/20/15 14:51	1
Silver	<0.025		0.025	0.010	mg/L		01/19/15 15:00	01/20/15 14:51	1
Zinc	0.027	J ^	0.10	0.020	mg/L		01/19/15 15:00	01/20/15 14:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.031	J	0.050	0.010	mg/L		01/20/15 14:30	01/22/15 04:53	1
Barium	0.39	J	0.50	0.050	mg/L		01/20/15 14:30	01/22/15 04:53	1
Beryllium	0.0047		0.0040	0.0040	mg/L		01/20/15 14:30	01/22/15 04:53	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/20/15 14:30	01/22/15 04:53	1
Chromium	0.11		0.025	0.010	mg/L		01/20/15 14:30	01/22/15 04:53	1
Cobalt	0.036		0.025	0.010	mg/L		01/20/15 14:30	01/22/15 04:53	1
Copper	0.22		0.025	0.010	mg/L		01/20/15 14:30	01/22/15 04:53	1
Iron	96		0.20	0.20	mg/L		01/20/15 14:30	01/22/15 04:53	1
Lead	0.067		0.0075	0.0075	mg/L		01/20/15 14:30	01/22/15 04:53	1
Manganese	1.1		0.025	0.010	mg/L		01/20/15 14:30	01/22/15 04:53	1
Nickel	0.10		0.025	0.010	mg/L		01/20/15 14:30	01/22/15 04:53	1
Selenium	<0.050		0.050	0.020	mg/L		01/20/15 14:30	01/22/15 04:53	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90850-1

Client Sample ID: OT-1(0-3)-011515

Lab Sample ID: 500-90850-3

Date Collected: 01/15/15 13:10

Matrix: Solid

Date Received: 01/16/15 07:25

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		01/20/15 14:30	01/22/15 04:53	1
Zinc	0.30		0.10	0.020	mg/L		01/20/15 14:30	01/22/15 04:53	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.26	J	1.1	0.23	mg/Kg	☼	01/19/15 10:30	01/19/15 22:46	1
Arsenic	6.1		0.56	0.26	mg/Kg	☼	01/19/15 10:30	01/19/15 22:46	1
Barium	60		0.56	0.10	mg/Kg	☼	01/19/15 10:30	01/19/15 22:46	1
Beryllium	0.77		0.22	0.049	mg/Kg	☼	01/19/15 10:30	01/19/15 22:46	1
Cadmium	0.17		0.11	0.032	mg/Kg	☼	01/19/15 10:30	01/19/15 22:46	1
Calcium	25000		11	3.6	mg/Kg	☼	01/19/15 10:30	01/19/15 22:46	1
Chromium	19		0.56	0.096	mg/Kg	☼	01/19/15 10:30	01/19/15 22:46	1
Cobalt	12		0.28	0.063	mg/Kg	☼	01/19/15 10:30	01/19/15 22:46	1
Copper	30		0.56	0.12	mg/Kg	☼	01/19/15 10:30	01/19/15 22:46	1
Iron	19000	B	11	4.3	mg/Kg	☼	01/19/15 10:30	01/19/15 22:46	1
Lead	34		0.28	0.14	mg/Kg	☼	01/19/15 10:30	01/19/15 22:46	1
Magnesium	16000		5.6	2.3	mg/Kg	☼	01/19/15 10:30	01/19/15 22:46	1
Manganese	410		0.56	0.11	mg/Kg	☼	01/19/15 10:30	01/19/15 22:46	1
Nickel	30		0.56	0.15	mg/Kg	☼	01/19/15 10:30	01/19/15 22:46	1
Potassium	2100		28	4.6	mg/Kg	☼	01/19/15 10:30	01/19/15 22:46	1
Selenium	0.30	J	0.56	0.28	mg/Kg	☼	01/19/15 10:30	01/19/15 22:46	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	01/19/15 10:30	01/19/15 22:46	1
Sodium	1600	B	56	7.4	mg/Kg	☼	01/19/15 10:30	01/19/15 22:46	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	01/19/15 10:30	01/19/15 22:46	1
Vanadium	24		0.28	0.082	mg/Kg	☼	01/19/15 10:30	01/19/15 22:46	1
Zinc	150	B	1.1	0.35	mg/Kg	☼	01/19/15 10:30	01/20/15 13:34	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		01/19/15 11:30	01/20/15 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		01/21/15 11:30	01/22/15 11:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	38		19	6.7	ug/Kg	☼	01/16/15 13:00	01/19/15 10:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.47		0.200	0.200	SU			01/21/15 09:35	1

Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90850-1

Qualifiers

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.
F1	MS and/or MSD Recovery exceeds the control limits
F2	MS/MSD RPD exceeds control limits
X	Surrogate is outside control limits

Metals

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90850-1

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-15

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

Analysis Method	Prep Method	Matrix	Analyte
7470A	7470A	Solid	Mercury
8260B		Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids



500-90850 COC

Report To (optional)
Contact: S. Babusukumar
Company: Weston Solutions
Address: 300 Plaza Circle Ste 202
Address: Mundelein, IL 60060
Phone: (815) 224-1224
Fax: (224) 864-7200
E-Mail:

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

Chain of Custody Record

Lab Job #: 500-90850
Chain of Custody Number:
Page 3 of 3
Temperature °C of Cooler: 3.1/3.5

Client		Client Project #		Preservative		Parameter		Preservative Key			
Weston				7	7	7	7	7	<ol style="list-style-type: none"> 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 		
Project Name		Lab Project #		# of Containers		Matrix		Comments			
IDOT 001											
Project Location/State		Sampler		Date		Time					
IL		M. Strow									
MS/MSD		Lab PM		Date		Time					
		D. Wright									
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs	SVOCs	Total Metals	TEMP/SPLP Metals	pH
1		W-6(0-3)-011515	1/15/15	1250	2	S	X	X	X	X	X
2		W-6(0-3)-011515D		1250							
3		OT-1(0-3)-011515		1310							
4		A45-1(0-3)-011515		1330							
A43-1(0-3)-011515											
5		A41-4(0-3)-011515		1355							
6		A41-3(0-3)-011515		1405							
7		A41-2(0-3)-011515		1410							
8		A41-1(0-3)-011515		1420							
9		ROW-3(0-3)-011515		1435							

~~MA NOT INCLUDED MA~~

Turnaround Time Required (Business Days)

Requested Due Date: 1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Standard 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>Weston</u> Company: <u>Weston</u> Date: <u>1/15/15</u> Time: <u>1500</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>1/15/15</u> Time: <u>1500</u>
Relinquished By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>1/15/15</u> Time: <u>1655</u>	Received By: <u>[Signature]</u> Company: <u>TA-CHI</u> Date: <u>1/16/15</u> Time: <u>0725</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:



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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 346: US 41 from IL 21 to West Park Ave Office Phone Number, if available: _____

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

1111 N. Skokie Highway (US 41)

City: Gurnee State: IL Zip Code: _____

County: Lake Township: _____

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

Latitude: 42.37666406 Longitude: -87.9007241
(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: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

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

Project Name: FAP 346: US 41 from IL 21 to West Park AveLatitude: 42.37666406 Longitude: -87.9007241Uncontaminated Site Certification**III. Basis for Certification and Attachments**

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

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

LOCATION A43-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2668A-43. SEE FIGURE 3-4 AND TABLE 4-1 OF THE REVISED 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]:

TEST AMERICA ANALYTICAL REPORT - JOB ID: 500-90936-1

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

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

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

Company Name: Illinois Department of TransportationStreet Address: 2300 South Dirksen ParkwayCity: Springfield State: IL Zip Code: 62764Phone: 217-785-4246Kurt T. Fischer P.G.

Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

2/9/15

Date:



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

Summary Table of ISGS Site No. 2668A-43
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 346: US Route 41 (Skokie Highway) from IL Route 21 to West Park Avenue
Gurnee, Park City, Waukegan, and North Chicago, Lake County, Illinois

Field Sample ID	A43-1(0-3)-011515	Soil Reference Concentrations^A
Sample Date	1/15/2015	
Location ID	A43-1	
Depth	0 - 3	
ISGS Site Number	2668A-43	
Parameter		
Laboratory pH (s.u.)	7.22	<6.25,>9.0
VOCs (ug/kg)		
Acetone	69	25000
Methyl ethyl ketone	13	---
SVOCs (ug/kg)	None Detected	
Total Metals (mg/kg)		
Arsenic, Total	8.2	11.3 / 13
Barium, Total	99	1500
Beryllium, Total	1	22
Calcium, Total	6500 J	---
Chromium, Total	27	21
Cobalt, Total	13	20
Copper, Total	24	2900
Iron, Total	27000 J+	15000 / 15900
Lead, Total	15 J	107
Magnesium, Total	8000 J	325000
Manganese, Total	500 J	630 / 636
Mercury, Total	0.036	0.89
Nickel, Total	32	100
Potassium, Total	3000 J+	---
Sodium, Total	890	---
Thallium, Total	0.75	2.6
Vanadium, Total	33	550
Zinc, Total	65 J-	5100
TCLP Metals (mg/l)		
Barium, TCLP	0.39 J	2
Cobalt, TCLP	0.025	1
Copper, TCLP	0.078	0.65
Lead, TCLP	0.0075	0.0075
Manganese, TCLP	11 J+	0.15
Nickel, TCLP	0.013 J	0.1
Zinc, TCLP	0.077 J	5
SPLP Metals (mg/l)		
Barium, SPLP	0.13 J	2
Chromium, SPLP	0.034	0.1
Copper, SPLP	0.06	0.65
Iron, SPLP	26 J+	5
Lead, SPLP	0.014	0.0075
Manganese, SPLP	0.53	0.15
Nickel, SPLP	0.028	0.1
Zinc, SPLP	0.088 J	5

Notes:

--- - not applicable or value not available.

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

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: 500-90936-1
Client Project/Site: IDOT - Lake County - WO 001

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

Attn: Mr. S. Babusukumar



Authorized for release by:
1/26/2015 11:24:08 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.

- 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 - Lake County - WO 001

TestAmerica Job ID: 500-90936-1

Client Sample ID: A43-1(0-3)-011515

Lab Sample ID: 500-90936-6

Date Collected: 01/15/15 16:45

Matrix: Solid

Date Received: 01/16/15 16:00

Percent Solids: 82.3

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	69		6.1	2.6	ug/Kg	☼		01/21/15 15:22	1
Benzene	<6.1		6.1	0.83	ug/Kg	☼		01/21/15 15:22	1
Bromodichloromethane	<6.1		6.1	1.0	ug/Kg	☼		01/21/15 15:22	1
Bromoform	<6.1		6.1	1.4	ug/Kg	☼		01/21/15 15:22	1
Bromomethane	<6.1		6.1	1.8	ug/Kg	☼		01/21/15 15:22	1
Carbon disulfide	<6.1		6.1	0.91	ug/Kg	☼		01/21/15 15:22	1
Carbon tetrachloride	<6.1		6.1	1.1	ug/Kg	☼		01/21/15 15:22	1
Chlorobenzene	<6.1		6.1	0.62	ug/Kg	☼		01/21/15 15:22	1
Chloroethane	<6.1		6.1	1.7	ug/Kg	☼		01/21/15 15:22	1
Chloroform	<6.1		6.1	0.70	ug/Kg	☼		01/21/15 15:22	1
Chloromethane	<6.1		6.1	1.3	ug/Kg	☼		01/21/15 15:22	1
cis-1,2-Dichloroethene	<6.1		6.1	0.86	ug/Kg	☼		01/21/15 15:22	1
cis-1,3-Dichloropropene	<6.1		6.1	0.80	ug/Kg	☼		01/21/15 15:22	1
Dibromochloromethane	<6.1		6.1	1.1	ug/Kg	☼		01/21/15 15:22	1
1,1-Dichloroethane	<6.1		6.1	0.96	ug/Kg	☼		01/21/15 15:22	1
1,2-Dichloroethane	<6.1		6.1	0.90	ug/Kg	☼		01/21/15 15:22	1
1,1-Dichloroethene	<6.1		6.1	0.98	ug/Kg	☼		01/21/15 15:22	1
1,2-Dichloropropane	<6.1		6.1	0.92	ug/Kg	☼		01/21/15 15:22	1
1,3-Dichloropropene, Total	<6.1		6.1	0.80	ug/Kg	☼		01/21/15 15:22	1
Ethylbenzene	<6.1		6.1	1.2	ug/Kg	☼		01/21/15 15:22	1
2-Hexanone	<6.1		6.1	1.7	ug/Kg	☼		01/21/15 15:22	1
Methylene Chloride	<6.1		6.1	1.6	ug/Kg	☼		01/21/15 15:22	1
Methyl Ethyl Ketone	13		6.1	2.2	ug/Kg	☼		01/21/15 15:22	1
methyl isobutyl ketone	<6.1		6.1	1.6	ug/Kg	☼		01/21/15 15:22	1
Methyl tert-butyl ether	<6.1		6.1	1.0	ug/Kg	☼		01/21/15 15:22	1
Styrene	<6.1		6.1	0.80	ug/Kg	☼		01/21/15 15:22	1
1,1,1,2-Tetrachloroethane	<6.1		6.1	1.2	ug/Kg	☼		01/21/15 15:22	1
Tetrachloroethene	<6.1		6.1	0.93	ug/Kg	☼		01/21/15 15:22	1
Toluene	<6.1		6.1	0.85	ug/Kg	☼		01/21/15 15:22	1
trans-1,2-Dichloroethene	<6.1		6.1	0.84	ug/Kg	☼		01/21/15 15:22	1
trans-1,3-Dichloropropene	<6.1		6.1	1.1	ug/Kg	☼		01/21/15 15:22	1
1,1,1-Trichloroethane	<6.1		6.1	0.91	ug/Kg	☼		01/21/15 15:22	1
1,1,2-Trichloroethane	<6.1		6.1	0.83	ug/Kg	☼		01/21/15 15:22	1
Trichloroethene	<6.1		6.1	1.0	ug/Kg	☼		01/21/15 15:22	1
Vinyl chloride	<6.1		6.1	1.3	ug/Kg	☼		01/21/15 15:22	1
Xylenes, Total	<12		12	0.55	ug/Kg	☼		01/21/15 15:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 122		01/21/15 15:22	1
Dibromofluoromethane	106		75 - 120		01/21/15 15:22	1
1,2-Dichloroethane-d4 (Surr)	117		70 - 134		01/21/15 15:22	1
Toluene-d8 (Surr)	94		75 - 122		01/21/15 15:22	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	43	ug/Kg	☼	01/20/15 07:14	01/22/15 01:39	1
1,2-Dichlorobenzene	<200		200	48	ug/Kg	☼	01/20/15 07:14	01/22/15 01:39	1
1,3-Dichlorobenzene	<200		200	45	ug/Kg	☼	01/20/15 07:14	01/22/15 01:39	1
1,4-Dichlorobenzene	<200		200	51	ug/Kg	☼	01/20/15 07:14	01/22/15 01:39	1
2,2'-oxybis[1-chloropropane]	<200		200	46	ug/Kg	☼	01/20/15 07:14	01/22/15 01:39	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90936-1

Client Sample ID: A43-1(0-3)-011515

Lab Sample ID: 500-90936-6

Date Collected: 01/15/15 16:45

Matrix: Solid

Date Received: 01/16/15 16:00

Percent Solids: 82.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<400		400	91	ug/Kg	*	01/20/15 07:14	01/22/15 01:39	1
2,4,6-Trichlorophenol	<400		400	140	ug/Kg	*	01/20/15 07:14	01/22/15 01:39	1
2,4-Dichlorophenol	<400		400	95	ug/Kg	*	01/20/15 07:14	01/22/15 01:39	1
2,4-Dimethylphenol	<400		400	150	ug/Kg	*	01/20/15 07:14	01/22/15 01:39	1
2,4-Dinitrophenol	<800		800	700	ug/Kg	*	01/20/15 07:14	01/22/15 01:39	1
2,4-Dinitrotoluene	<200		200	63	ug/Kg	*	01/20/15 07:14	01/22/15 01:39	1
2,6-Dinitrotoluene	<200		200	78	ug/Kg	*	01/20/15 07:14	01/22/15 01:39	1
2-Chloronaphthalene	<200		200	44	ug/Kg	*	01/20/15 07:14	01/22/15 01:39	1
2-Chlorophenol	<200		200	68	ug/Kg	*	01/20/15 07:14	01/22/15 01:39	1
2-Methylnaphthalene	<40		40	7.3	ug/Kg	*	01/20/15 07:14	01/22/15 01:39	1
2-Methylphenol	<200		200	64	ug/Kg	*	01/20/15 07:14	01/22/15 01:39	1
2-Nitroaniline	<200		200	54	ug/Kg	*	01/20/15 07:14	01/22/15 01:39	1
2-Nitrophenol	<400		400	94	ug/Kg	*	01/20/15 07:14	01/22/15 01:39	1
3 & 4 Methylphenol	<200		200	67	ug/Kg	*	01/20/15 07:14	01/22/15 01:39	1
3,3'-Dichlorobenzidine	<200		200	56	ug/Kg	*	01/20/15 07:14	01/22/15 01:39	1
3-Nitroaniline	<400		400	120	ug/Kg	*	01/20/15 07:14	01/22/15 01:39	1
4,6-Dinitro-2-methylphenol	<400		400	320	ug/Kg	*	01/20/15 07:14	01/22/15 01:39	1
4-Bromophenyl phenyl ether	<200		200	53	ug/Kg	*	01/20/15 07:14	01/22/15 01:39	1
4-Chloro-3-methylphenol	<400		400	140	ug/Kg	*	01/20/15 07:14	01/22/15 01:39	1
4-Chloroaniline	<800		800	190	ug/Kg	*	01/20/15 07:14	01/22/15 01:39	1
4-Chlorophenyl phenyl ether	<200		200	47	ug/Kg	*	01/20/15 07:14	01/22/15 01:39	1
4-Nitroaniline	<400		400	170	ug/Kg	*	01/20/15 07:14	01/22/15 01:39	1
4-Nitrophenol	<800		800	380	ug/Kg	*	01/20/15 07:14	01/22/15 01:39	1
Acenaphthene	<40		40	7.2	ug/Kg	*	01/20/15 07:14	01/22/15 01:39	1
Acenaphthylene	<40		40	5.3	ug/Kg	*	01/20/15 07:14	01/22/15 01:39	1
Anthracene	<40		40	6.7	ug/Kg	*	01/20/15 07:14	01/22/15 01:39	1
Benzo[a]anthracene	<40		40	5.4	ug/Kg	*	01/20/15 07:14	01/22/15 01:39	1
Benzo[a]pyrene	<40		40	7.7	ug/Kg	*	01/20/15 07:14	01/22/15 01:39	1
Benzo[b]fluoranthene	<40		40	8.6	ug/Kg	*	01/20/15 07:14	01/22/15 01:39	1
Benzo[g,h,i]perylene	<40		40	13	ug/Kg	*	01/20/15 07:14	01/22/15 01:39	1
Benzo[k]fluoranthene	<40		40	12	ug/Kg	*	01/20/15 07:14	01/22/15 01:39	1
Bis(2-chloroethoxy)methane	<200		200	41	ug/Kg	*	01/20/15 07:14	01/22/15 01:39	1
Bis(2-chloroethyl)ether	<200		200	60	ug/Kg	*	01/20/15 07:14	01/22/15 01:39	1
Bis(2-ethylhexyl) phthalate	<200		200	73	ug/Kg	*	01/20/15 07:14	01/22/15 01:39	1
Butyl benzyl phthalate	<200		200	76	ug/Kg	*	01/20/15 07:14	01/22/15 01:39	1
Carbazole	<200		200	100	ug/Kg	*	01/20/15 07:14	01/22/15 01:39	1
Chrysene	<40		40	11	ug/Kg	*	01/20/15 07:14	01/22/15 01:39	1
Dibenz(a,h)anthracene	<40		40	7.7	ug/Kg	*	01/20/15 07:14	01/22/15 01:39	1
Dibenzofuran	<200		200	47	ug/Kg	*	01/20/15 07:14	01/22/15 01:39	1
Diethyl phthalate	<200		200	68	ug/Kg	*	01/20/15 07:14	01/22/15 01:39	1
Dimethyl phthalate	<200		200	52	ug/Kg	*	01/20/15 07:14	01/22/15 01:39	1
Di-n-butyl phthalate	<200		200	61	ug/Kg	*	01/20/15 07:14	01/22/15 01:39	1
Di-n-octyl phthalate	<200		200	65	ug/Kg	*	01/20/15 07:14	01/22/15 01:39	1
Fluoranthene	<40		40	7.4	ug/Kg	*	01/20/15 07:14	01/22/15 01:39	1
Fluorene	<40		40	5.6	ug/Kg	*	01/20/15 07:14	01/22/15 01:39	1
Hexachlorobenzene	<80		80	9.2	ug/Kg	*	01/20/15 07:14	01/22/15 01:39	1
Hexachlorobutadiene	<200		200	63	ug/Kg	*	01/20/15 07:14	01/22/15 01:39	1
Hexachlorocyclopentadiene	<800		800	230	ug/Kg	*	01/20/15 07:14	01/22/15 01:39	1
Hexachloroethane	<200		200	61	ug/Kg	*	01/20/15 07:14	01/22/15 01:39	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90936-1

Client Sample ID: A43-1(0-3)-011515

Lab Sample ID: 500-90936-6

Date Collected: 01/15/15 16:45

Matrix: Solid

Date Received: 01/16/15 16:00

Percent Solids: 82.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<40		40	10	ug/Kg	☼	01/20/15 07:14	01/22/15 01:39	1
Isophorone	<200		200	45	ug/Kg	☼	01/20/15 07:14	01/22/15 01:39	1
Naphthalene	<40		40	6.1	ug/Kg	☼	01/20/15 07:14	01/22/15 01:39	1
Nitrobenzene	<40		40	10	ug/Kg	☼	01/20/15 07:14	01/22/15 01:39	1
N-Nitrosodi-n-propylamine	<200		200	49	ug/Kg	☼	01/20/15 07:14	01/22/15 01:39	1
N-Nitrosodiphenylamine	<200		200	47	ug/Kg	☼	01/20/15 07:14	01/22/15 01:39	1
Pentachlorophenol	<800		800	640	ug/Kg	☼	01/20/15 07:14	01/22/15 01:39	1
Phenanthrene	<40		40	5.6	ug/Kg	☼	01/20/15 07:14	01/22/15 01:39	1
Phenol	<200		200	89	ug/Kg	☼	01/20/15 07:14	01/22/15 01:39	1
Pyrene	<40		40	7.9	ug/Kg	☼	01/20/15 07:14	01/22/15 01:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	62		35 - 137				01/20/15 07:14	01/22/15 01:39	1
2-Fluorobiphenyl	53		25 - 119				01/20/15 07:14	01/22/15 01:39	1
2-Fluorophenol	53		25 - 110				01/20/15 07:14	01/22/15 01:39	1
Nitrobenzene-d5	48		25 - 115				01/20/15 07:14	01/22/15 01:39	1
Phenol-d5	55		31 - 110				01/20/15 07:14	01/22/15 01:39	1
Terphenyl-d14	90		36 - 134				01/20/15 07:14	01/22/15 01:39	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		01/21/15 08:45	01/22/15 01:42	1
Barium	0.39	J	0.50	0.050	mg/L		01/21/15 08:45	01/22/15 01:42	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/21/15 08:45	01/22/15 01:42	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/21/15 08:45	01/22/15 01:42	1
Chromium	<0.025		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 01:42	1
Cobalt	0.025		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 01:42	1
Copper	0.078		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 01:42	1
Iron	<0.20		0.20	0.20	mg/L		01/21/15 08:45	01/22/15 01:42	1
Lead	0.0075		0.0075	0.0075	mg/L		01/21/15 08:45	01/22/15 01:42	1
Manganese	11		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 01:42	1
Nickel	0.013	J	0.025	0.010	mg/L		01/21/15 08:45	01/22/15 01:42	1
Selenium	<0.050		0.050	0.020	mg/L		01/21/15 08:45	01/22/15 01:42	1
Silver	<0.025		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 01:42	1
Zinc	0.077	J	0.10	0.020	mg/L		01/21/15 08:45	01/22/15 01:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/21/15 09:30	01/22/15 15:04	1
Barium	0.13	J	0.50	0.050	mg/L		01/21/15 09:30	01/22/15 15:04	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/21/15 09:30	01/22/15 15:04	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/21/15 09:30	01/22/15 15:04	1
Chromium	0.034		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 15:04	1
Cobalt	<0.025		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 15:04	1
Copper	0.060		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 15:04	1
Iron	26		0.20	0.20	mg/L		01/21/15 09:30	01/22/15 15:04	1
Lead	0.014		0.0075	0.0075	mg/L		01/21/15 09:30	01/22/15 15:04	1
Manganese	0.53		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 15:04	1
Nickel	0.028		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 15:04	1
Selenium	<0.050		0.050	0.020	mg/L		01/21/15 09:30	01/22/15 15:04	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90936-1

Client Sample ID: A43-1(0-3)-011515

Lab Sample ID: 500-90936-6

Date Collected: 01/15/15 16:45

Matrix: Solid

Date Received: 01/16/15 16:00

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		01/21/15 09:30	01/22/15 15:04	1
Zinc	0.088	J	0.10	0.020	mg/L		01/21/15 09:30	01/22/15 15:04	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.55	J B	1.1	0.23	mg/Kg	☼	01/19/15 16:20	01/21/15 03:49	1
Arsenic	8.2		0.57	0.26	mg/Kg	☼	01/19/15 16:20	01/21/15 03:49	1
Barium	99		0.57	0.10	mg/Kg	☼	01/19/15 16:20	01/21/15 03:49	1
Beryllium	1.0		0.23	0.049	mg/Kg	☼	01/19/15 16:20	01/21/15 03:49	1
Cadmium	<0.11		0.11	0.033	mg/Kg	☼	01/19/15 16:20	01/21/15 18:46	1
Calcium	6500		11	3.6	mg/Kg	☼	01/19/15 16:20	01/21/15 03:49	1
Chromium	27		0.57	0.097	mg/Kg	☼	01/19/15 16:20	01/21/15 03:49	1
Cobalt	13		0.28	0.064	mg/Kg	☼	01/19/15 16:20	01/21/15 03:49	1
Copper	24		0.57	0.12	mg/Kg	☼	01/19/15 16:20	01/21/15 03:49	1
Iron	27000		11	4.4	mg/Kg	☼	01/19/15 16:20	01/21/15 03:49	1
Lead	15		0.28	0.14	mg/Kg	☼	01/19/15 16:20	01/21/15 03:49	1
Magnesium	8000		5.7	2.3	mg/Kg	☼	01/19/15 16:20	01/21/15 03:49	1
Manganese	500		0.57	0.11	mg/Kg	☼	01/19/15 16:20	01/21/15 03:49	1
Nickel	32		0.57	0.15	mg/Kg	☼	01/19/15 16:20	01/21/15 03:49	1
Potassium	3000		28	4.6	mg/Kg	☼	01/19/15 16:20	01/21/15 03:49	1
Selenium	<0.57		0.57	0.28	mg/Kg	☼	01/19/15 16:20	01/21/15 03:49	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	01/19/15 16:20	01/21/15 03:49	1
Sodium	890		57	7.5	mg/Kg	☼	01/19/15 16:20	01/21/15 03:49	1
Thallium	0.75		0.57	0.28	mg/Kg	☼	01/19/15 16:20	01/21/15 03:49	1
Vanadium	33		0.28	0.083	mg/Kg	☼	01/19/15 16:20	01/21/15 03:49	1
Zinc	65	B	1.1	0.36	mg/Kg	☼	01/19/15 16:20	01/21/15 03:49	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		01/21/15 11:30	01/22/15 09:31	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		01/21/15 11:30	01/22/15 10:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	36		19	6.6	ug/Kg	☼	01/19/15 14:30	01/20/15 09:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.22		0.200	0.200	SU			01/21/15 11:25	1

Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90936-1

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.
F1	MS and/or MSD Recovery exceeds the control limits

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD Recovery exceeds the control limits
F2	MS/MSD RPD exceeds control limits

Glossary

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

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90936-1

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-15

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

Analysis Method	Prep Method	Matrix	Analyte
7470A	7470A	Solid	Mercury
8260B		Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15



500-90936 COC

Report To (optional)
Contact: S Babusukumar
Company: Weston Solutions
Address: 300 Plaza Circle Sk 202
Address: Mundelein, IL 60060
Phone: (224) 864-7200
Fax:
E-Mail:

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

Chain of Custody Record

Lab Job #: 500-90936
Chain of Custody Number:
Page 1 of 3
Temperature °C of Cooler: (3.9) (4.2)

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 #		Containers		Matrix		Comments					
Lab ID	MS/MSD	Sample ID	Date	Time	# of	Matrix	Matrix						
1		Row-8 (0-3) - 011515	1/15/15	1535	2	S	VOCS	X	X	X	X	X	
2		Row-7 (0-3) - 011515		1540			SVOCs						
3		Row-6 (0-3) - 011515		1550			Total Metals						
4		Row-5 (0-3) - 011515		1600			TCUP/SPLP Metals						
5		Row-4 (0-3) - 011515		1610			PH						
6		A43-1 (0-3) - 011515		1645									
7		Row-15 (0-3) - 011615	1/16/15	0830									
8		Row-16 (0-3) - 011615		0840									
9		Row-16 (0-3) - 011615		0840									
10		Row-18 (0-3) - 011615		0850									

Turnaround Time Required (Business Days)

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

Requested Due Date

Sample Disposal

Return to Client

Disposal by Lab

Archive for _____ Months

(A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: <u>[Signature]</u>	Company: <u>Weston</u>	Date: <u>1/16/15</u>	Time: <u>1420</u>	Received By: <u>[Signature]</u>	Company: <u>TA</u>	Date: <u>1/16/15</u>	Time: <u>1420</u>
Relinquished By: <u>[Signature]</u>	Company: <u>TA</u>	Date: <u>1/16/15</u>	Time: <u>1600</u>	Received By: <u>[Signature]</u>	Company: <u>TA</u>	Date: <u>1/16/15</u>	Time: <u>1600</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: S. Babusulekumar
Company: Weston Solutions
Address: 300 Plaza Circle Ste 202
Address: Mundelein, IL 60060
Phone: (224) 864-7200
Fax:
E-Mail:

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

Chain of Custody Record

Lab Job #: 500-90936

Chain of Custody Number: _____

Page 2 of 3

Temperature °C of Cooler: _____

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				
Sampler		Lab PM		# of Containers		Matrix		Matrix		Comments
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	Matrix	Matrix	Matrix	
11		ROW-19(0-3)-011615	1/16/15	0905	2	S	VOCs	X	X	
12		ROW-21(0-3)-011615		0935			SVOCs	X	X	
13		ROW-20(0-3)-011615		0950			Total Metals	X	X	
14		ROW-17(0-3)-011615		1100			Temp/SPLP Metals	X	X	
15		ROW-13(0-3)-011615		1110			pH	X	X	
16		LT-2(0-3)-011615		1130						
17		LT-1(0-3)-011615		1150						
18		LL-2(0-3)-011615		1210						
19		LL-1(0-3)-011615		1225						
20		CL-1(0-3)-011615		1230						

Turnaround Time Required (Business Days)

___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days Standard 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>M. Straw</u> Company <u>Weston</u> Date <u>1/16/15</u> Time <u>1420</u>	Received By <u>[Signature]</u> Company <u>TA</u> Date <u>1/16/15</u> Time <u>1420</u>
Relinquished By <u>[Signature]</u> Company <u>TA</u> Date <u>1/16/15</u> Time <u>1600</u>	Received By <u>[Signature]</u> Company <u>TA</u> Date <u>1/16/15</u> Time <u>1600</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:



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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 346: US 41 from IL 21 to West Park Ave Office Phone Number, if available: _____

Physical Site Location (address, including number and street):
1000 block of N. Skokie Highway (US 41)

City: Gurnee State: IL Zip Code: _____

County: Lake Township: _____

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

Latitude: 42.37608452 Longitude: -87.89967524
(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: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

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

Project Name: FAP 346: US 41 from IL 21 to West Park AveLatitude: 42.37608452 Longitude: -87.89967524Uncontaminated Site Certification**III. Basis for Certification and Attachments**

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

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

LOCATION A45-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2668A-45. SEE FIGURE 3-4 AND TABLE 4-1 OF THE REVISED 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]:

TEST AMERICA ANALYTICAL REPORT - JOB ID: 500-90850-1

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

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

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

Company Name: Illinois Department of TransportationStreet Address: 2300 South Dirksen ParkwayCity: Springfield State: IL Zip Code: 62764Phone: 217-785-4246

Kurt T. Fischer P.G. _____

Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

2/9/15

Date:



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

Summary Table of ISGS Site No. 2668A-45
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 346: US Route 41 (Skokie Highway) from IL Route 21 to West Park Avenue
Gurnee, Park City, Waukegan, and North Chicago, Lake County, Illinois

Field Sample ID	A45-1(0-3)-011515	Soil Reference Concentrations^A
Sample Date	1/15/2015	
Location ID	A45-1	
Depth	0 - 3	
ISGS Site Number	2668A-45	
Parameter		
Laboratory pH (s.u.)	7.52	<6.25,>9.0
VOCs (ug/kg)	None Detected	
SVOCs (ug/kg)	None Detected	
Total Metals (mg/kg)		
Antimony, Total	0.37 J	5
Arsenic, Total	6.5	11.3 / 13
Barium, Total	70	1500
Beryllium, Total	0.78	22
Cadmium, Total	0.11	5.2
Calcium, Total	28000	---
Chromium, Total	19	21
Cobalt, Total	11	20
Copper, Total	19	2900
Iron, Total	20000 B	15000 / 15900
Lead, Total	15	107
Magnesium, Total	18000	325000
Manganese, Total	420	630 / 636
Mercury, Total	0.016 J	0.89
Nickel, Total	32	100
Potassium, Total	2000	---
Selenium, Total	0.38 J	1.3
Sodium, Total	2200 B	---
Thallium, Total	0.31 J	2.6
Vanadium, Total	26	550
Zinc, Total	65 B	5100
TCLP Metals (mg/l)		
Barium, TCLP	0.43 J	2
Copper, TCLP	0.019 J	0.65
Manganese, TCLP	1.4	0.15
Zinc, TCLP	0.023 J	5
SPLP Metals (mg/l)		
Barium, SPLP	0.14 J	2
Chromium, SPLP	0.033	0.1
Copper, SPLP	0.079	0.65
Iron, SPLP	24	5
Lead, SPLP	0.016	0.0075
Manganese, SPLP	0.24	0.15
Nickel, SPLP	0.027	0.1
Zinc, SPLP	0.11	5

Notes:

--- - not applicable or value not available.

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

B - Constituent detected in investigative and blank sample.

J - Estimated concentration.

 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: 500-90850-1
Client Project/Site: IDOT - Lake County - WO 001

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

Attn: Mr. S. Babusukumar



Authorized for release by:
1/23/2015 10:43:42 AM

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 - Lake County - WO 001

TestAmerica Job ID: 500-90850-1

Client Sample ID: A45-1(0-3)-011515

Lab Sample ID: 500-90850-4

Date Collected: 01/15/15 13:30

Matrix: Solid

Date Received: 01/16/15 07:25

Percent Solids: 87.2

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.7		5.7	2.5	ug/Kg	*		01/20/15 13:02	1
Benzene	<5.7		5.7	0.79	ug/Kg	*		01/20/15 13:02	1
Bromodichloromethane	<5.7		5.7	0.99	ug/Kg	*		01/20/15 13:02	1
Bromoform	<5.7		5.7	1.3	ug/Kg	*		01/20/15 13:02	1
Bromomethane	<5.7		5.7	1.7	ug/Kg	*		01/20/15 13:02	1
Carbon disulfide	<5.7		5.7	0.86	ug/Kg	*		01/20/15 13:02	1
Carbon tetrachloride	<5.7		5.7	1.0	ug/Kg	*		01/20/15 13:02	1
Chlorobenzene	<5.7		5.7	0.58	ug/Kg	*		01/20/15 13:02	1
Chloroethane	<5.7		5.7	1.6	ug/Kg	*		01/20/15 13:02	1
Chloroform	<5.7		5.7	0.66	ug/Kg	*		01/20/15 13:02	1
Chloromethane	<5.7		5.7	1.2	ug/Kg	*		01/20/15 13:02	1
cis-1,2-Dichloroethene	<5.7		5.7	0.81	ug/Kg	*		01/20/15 13:02	1
cis-1,3-Dichloropropene	<5.7		5.7	0.75	ug/Kg	*		01/20/15 13:02	1
Dibromochloromethane	<5.7		5.7	1.0	ug/Kg	*		01/20/15 13:02	1
1,1-Dichloroethane	<5.7		5.7	0.91	ug/Kg	*		01/20/15 13:02	1
1,2-Dichloroethane	<5.7		5.7	0.85	ug/Kg	*		01/20/15 13:02	1
1,1-Dichloroethene	<5.7		5.7	0.93	ug/Kg	*		01/20/15 13:02	1
1,2-Dichloropropane	<5.7		5.7	0.87	ug/Kg	*		01/20/15 13:02	1
1,3-Dichloropropene, Total	<5.7		5.7	0.75	ug/Kg	*		01/20/15 13:02	1
Ethylbenzene	<5.7		5.7	1.2	ug/Kg	*		01/20/15 13:02	1
2-Hexanone	<5.7		5.7	1.7	ug/Kg	*		01/20/15 13:02	1
Methylene Chloride	<5.7		5.7	1.5	ug/Kg	*		01/20/15 13:02	1
Methyl Ethyl Ketone	<5.7		5.7	2.1	ug/Kg	*		01/20/15 13:02	1
methyl isobutyl ketone	<5.7		5.7	1.5	ug/Kg	*		01/20/15 13:02	1
Methyl tert-butyl ether	<5.7		5.7	0.95	ug/Kg	*		01/20/15 13:02	1
Styrene	<5.7		5.7	0.75	ug/Kg	*		01/20/15 13:02	1
1,1,1,2-Tetrachloroethane	<5.7		5.7	1.2	ug/Kg	*		01/20/15 13:02	1
Tetrachloroethene	<5.7		5.7	0.88	ug/Kg	*		01/20/15 13:02	1
Toluene	<5.7		5.7	0.80	ug/Kg	*		01/20/15 13:02	1
trans-1,2-Dichloroethene	<5.7		5.7	0.79	ug/Kg	*		01/20/15 13:02	1
trans-1,3-Dichloropropene	<5.7		5.7	1.0	ug/Kg	*		01/20/15 13:02	1
1,1,1-Trichloroethane	<5.7		5.7	0.86	ug/Kg	*		01/20/15 13:02	1
1,1,2-Trichloroethane	<5.7		5.7	0.78	ug/Kg	*		01/20/15 13:02	1
Trichloroethene	<5.7		5.7	0.95	ug/Kg	*		01/20/15 13:02	1
Vinyl chloride	<5.7		5.7	1.2	ug/Kg	*		01/20/15 13:02	1
Xylenes, Total	<11		11	0.52	ug/Kg	*		01/20/15 13:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122		01/20/15 13:02	1
Dibromofluoromethane	100		75 - 120		01/20/15 13:02	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134		01/20/15 13:02	1
Toluene-d8 (Surr)	98		75 - 122		01/20/15 13:02	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	*	01/16/15 16:23	01/21/15 14:00	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	*	01/16/15 16:23	01/21/15 14:00	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	*	01/16/15 16:23	01/21/15 14:00	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	*	01/16/15 16:23	01/21/15 14:00	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	*	01/16/15 16:23	01/21/15 14:00	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90850-1

Client Sample ID: A45-1(0-3)-011515

Lab Sample ID: 500-90850-4

Date Collected: 01/15/15 13:30

Matrix: Solid

Date Received: 01/16/15 07:25

Percent Solids: 87.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<380		380	86	ug/Kg	☼	01/16/15 16:23	01/21/15 14:00	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	01/16/15 16:23	01/21/15 14:00	1
2,4-Dichlorophenol	<380		380	90	ug/Kg	☼	01/16/15 16:23	01/21/15 14:00	1
2,4-Dimethylphenol	<380		380	140	ug/Kg	☼	01/16/15 16:23	01/21/15 14:00	1
2,4-Dinitrophenol	<760		760	670	ug/Kg	☼	01/16/15 16:23	01/21/15 14:00	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	01/16/15 16:23	01/21/15 14:00	1
2,6-Dinitrotoluene	<190		190	74	ug/Kg	☼	01/16/15 16:23	01/21/15 14:00	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	01/16/15 16:23	01/21/15 14:00	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	01/16/15 16:23	01/21/15 14:00	1
2-Methylnaphthalene	<38		38	7.0	ug/Kg	☼	01/16/15 16:23	01/21/15 14:00	1
2-Methylphenol	<190		190	61	ug/Kg	☼	01/16/15 16:23	01/21/15 14:00	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	01/16/15 16:23	01/21/15 14:00	1
2-Nitrophenol	<380		380	89	ug/Kg	☼	01/16/15 16:23	01/21/15 14:00	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	01/16/15 16:23	01/21/15 14:00	1
3,3'-Dichlorobenzidine	<190		190	53	ug/Kg	☼	01/16/15 16:23	01/21/15 14:00	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	01/16/15 16:23	01/21/15 14:00	1
4,6-Dinitro-2-methylphenol	<380		380	300	ug/Kg	☼	01/16/15 16:23	01/21/15 14:00	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	01/16/15 16:23	01/21/15 14:00	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	01/16/15 16:23	01/21/15 14:00	1
4-Chloroaniline	<760		760	180	ug/Kg	☼	01/16/15 16:23	01/21/15 14:00	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	01/16/15 16:23	01/21/15 14:00	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	01/16/15 16:23	01/21/15 14:00	1
4-Nitrophenol	<760		760	360	ug/Kg	☼	01/16/15 16:23	01/21/15 14:00	1
Acenaphthene	<38		38	6.8	ug/Kg	☼	01/16/15 16:23	01/21/15 14:00	1
Acenaphthylene	<38		38	5.0	ug/Kg	☼	01/16/15 16:23	01/21/15 14:00	1
Anthracene	<38		38	6.3	ug/Kg	☼	01/16/15 16:23	01/21/15 14:00	1
Benzo[a]anthracene	<38		38	5.1	ug/Kg	☼	01/16/15 16:23	01/21/15 14:00	1
Benzo[a]pyrene	<38		38	7.3	ug/Kg	☼	01/16/15 16:23	01/21/15 14:00	1
Benzo[b]fluoranthene	<38		38	8.2	ug/Kg	☼	01/16/15 16:23	01/21/15 14:00	1
Benzo[g,h,i]perylene	<38		38	12	ug/Kg	☼	01/16/15 16:23	01/21/15 14:00	1
Benzo[k]fluoranthene	<38		38	11	ug/Kg	☼	01/16/15 16:23	01/21/15 14:00	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	01/16/15 16:23	01/21/15 14:00	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	01/16/15 16:23	01/21/15 14:00	1
Bis(2-ethylhexyl) phthalate	<190		190	69	ug/Kg	☼	01/16/15 16:23	01/21/15 14:00	1
Butyl benzyl phthalate	<190		190	72	ug/Kg	☼	01/16/15 16:23	01/21/15 14:00	1
Carbazole	<190		190	98	ug/Kg	☼	01/16/15 16:23	01/21/15 14:00	1
Chrysene	<38		38	10	ug/Kg	☼	01/16/15 16:23	01/21/15 14:00	1
Dibenz(a,h)anthracene	<38		38	7.3	ug/Kg	☼	01/16/15 16:23	01/21/15 14:00	1
Dibenzofuran	<190		190	44	ug/Kg	☼	01/16/15 16:23	01/21/15 14:00	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	01/16/15 16:23	01/21/15 14:00	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	01/16/15 16:23	01/21/15 14:00	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	01/16/15 16:23	01/21/15 14:00	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	01/16/15 16:23	01/21/15 14:00	1
Fluoranthene	<38		38	7.0	ug/Kg	☼	01/16/15 16:23	01/21/15 14:00	1
Fluorene	<38		38	5.3	ug/Kg	☼	01/16/15 16:23	01/21/15 14:00	1
Hexachlorobenzene	<76		76	8.8	ug/Kg	☼	01/16/15 16:23	01/21/15 14:00	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	01/16/15 16:23	01/21/15 14:00	1
Hexachlorocyclopentadiene	<760		760	220	ug/Kg	☼	01/16/15 16:23	01/21/15 14:00	1
Hexachloroethane	<190		190	57	ug/Kg	☼	01/16/15 16:23	01/21/15 14:00	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90850-1

Client Sample ID: A45-1(0-3)-011515

Lab Sample ID: 500-90850-4

Date Collected: 01/15/15 13:30

Matrix: Solid

Date Received: 01/16/15 07:25

Percent Solids: 87.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<38		38	9.8	ug/Kg	☼	01/16/15 16:23	01/21/15 14:00	1
Isophorone	<190		190	42	ug/Kg	☼	01/16/15 16:23	01/21/15 14:00	1
Naphthalene	<38		38	5.8	ug/Kg	☼	01/16/15 16:23	01/21/15 14:00	1
Nitrobenzene	<38		38	9.4	ug/Kg	☼	01/16/15 16:23	01/21/15 14:00	1
N-Nitrosodi-n-propylamine	<190		190	46	ug/Kg	☼	01/16/15 16:23	01/21/15 14:00	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	01/16/15 16:23	01/21/15 14:00	1
Pentachlorophenol	<760		760	610	ug/Kg	☼	01/16/15 16:23	01/21/15 14:00	1
Phenanthrene	<38		38	5.3	ug/Kg	☼	01/16/15 16:23	01/21/15 14:00	1
Phenol	<190		190	84	ug/Kg	☼	01/16/15 16:23	01/21/15 14:00	1
Pyrene	<38		38	7.5	ug/Kg	☼	01/16/15 16:23	01/21/15 14:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	47		35 - 137				01/16/15 16:23	01/21/15 14:00	1
2-Fluorobiphenyl	33		25 - 119				01/16/15 16:23	01/21/15 14:00	1
2-Fluorophenol	31		25 - 110				01/16/15 16:23	01/21/15 14:00	1
Nitrobenzene-d5	27		25 - 115				01/16/15 16:23	01/21/15 14:00	1
Phenol-d5	35		31 - 110				01/16/15 16:23	01/21/15 14:00	1
Terphenyl-d14	68		36 - 134				01/16/15 16:23	01/21/15 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		01/19/15 15:00	01/20/15 14:56	1
Barium	0.43	J	0.50	0.050	mg/L		01/19/15 15:00	01/20/15 14:56	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/19/15 15:00	01/20/15 14:56	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/19/15 15:00	01/20/15 14:56	1
Chromium	<0.025		0.025	0.010	mg/L		01/19/15 15:00	01/20/15 14:56	1
Cobalt	<0.025		0.025	0.010	mg/L		01/19/15 15:00	01/20/15 14:56	1
Copper	0.019	J	0.025	0.010	mg/L		01/19/15 15:00	01/20/15 14:56	1
Iron	<0.20		0.20	0.20	mg/L		01/19/15 15:00	01/20/15 14:56	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/19/15 15:00	01/20/15 14:56	1
Manganese	1.4		0.025	0.010	mg/L		01/19/15 15:00	01/20/15 14:56	1
Nickel	<0.025		0.025	0.010	mg/L		01/19/15 15:00	01/20/15 14:56	1
Selenium	<0.050		0.050	0.020	mg/L		01/19/15 15:00	01/20/15 14:56	1
Silver	<0.025		0.025	0.010	mg/L		01/19/15 15:00	01/20/15 14:56	1
Zinc	0.023	J ^	0.10	0.020	mg/L		01/19/15 15:00	01/20/15 14:56	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		01/20/15 14:30	01/22/15 04:59	1
Barium	0.14	J	0.50	0.050	mg/L		01/20/15 14:30	01/22/15 04:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/20/15 14:30	01/22/15 04:59	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/20/15 14:30	01/22/15 04:59	1
Chromium	0.033		0.025	0.010	mg/L		01/20/15 14:30	01/22/15 04:59	1
Cobalt	<0.025		0.025	0.010	mg/L		01/20/15 14:30	01/22/15 04:59	1
Copper	0.079		0.025	0.010	mg/L		01/20/15 14:30	01/22/15 04:59	1
Iron	24		0.20	0.20	mg/L		01/20/15 14:30	01/22/15 04:59	1
Lead	0.016		0.0075	0.0075	mg/L		01/20/15 14:30	01/22/15 04:59	1
Manganese	0.24		0.025	0.010	mg/L		01/20/15 14:30	01/22/15 04:59	1
Nickel	0.027		0.025	0.010	mg/L		01/20/15 14:30	01/22/15 04:59	1
Selenium	<0.050		0.050	0.020	mg/L		01/20/15 14:30	01/22/15 04:59	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90850-1

Client Sample ID: A45-1(0-3)-011515

Lab Sample ID: 500-90850-4

Date Collected: 01/15/15 13:30

Matrix: Solid

Date Received: 01/16/15 07:25

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		01/20/15 14:30	01/22/15 04:59	1
Zinc	0.11		0.10	0.020	mg/L		01/20/15 14:30	01/22/15 04:59	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.37	J	1.1	0.23	mg/Kg	☼	01/19/15 10:30	01/19/15 22:50	1
Arsenic	6.5		0.56	0.26	mg/Kg	☼	01/19/15 10:30	01/19/15 22:50	1
Barium	70		0.56	0.10	mg/Kg	☼	01/19/15 10:30	01/19/15 22:50	1
Beryllium	0.78		0.22	0.048	mg/Kg	☼	01/19/15 10:30	01/19/15 22:50	1
Cadmium	0.11		0.11	0.032	mg/Kg	☼	01/19/15 10:30	01/19/15 22:50	1
Calcium	28000		11	3.6	mg/Kg	☼	01/19/15 10:30	01/19/15 22:50	1
Chromium	19		0.56	0.096	mg/Kg	☼	01/19/15 10:30	01/19/15 22:50	1
Cobalt	11		0.28	0.063	mg/Kg	☼	01/19/15 10:30	01/19/15 22:50	1
Copper	19		0.56	0.12	mg/Kg	☼	01/19/15 10:30	01/19/15 22:50	1
Iron	20000	B	11	4.3	mg/Kg	☼	01/19/15 10:30	01/19/15 22:50	1
Lead	15		0.28	0.14	mg/Kg	☼	01/19/15 10:30	01/19/15 22:50	1
Magnesium	18000		5.6	2.3	mg/Kg	☼	01/19/15 10:30	01/19/15 22:50	1
Manganese	420		0.56	0.11	mg/Kg	☼	01/19/15 10:30	01/19/15 22:50	1
Nickel	32		0.56	0.15	mg/Kg	☼	01/19/15 10:30	01/19/15 22:50	1
Potassium	2000		28	4.5	mg/Kg	☼	01/19/15 10:30	01/19/15 22:50	1
Selenium	0.38	J	0.56	0.28	mg/Kg	☼	01/19/15 10:30	01/19/15 22:50	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	01/19/15 10:30	01/19/15 22:50	1
Sodium	2200	B	56	7.3	mg/Kg	☼	01/19/15 10:30	01/19/15 22:50	1
Thallium	0.31	J	0.56	0.27	mg/Kg	☼	01/19/15 10:30	01/19/15 22:50	1
Vanadium	26		0.28	0.081	mg/Kg	☼	01/19/15 10:30	01/19/15 22:50	1
Zinc	65	B	1.1	0.35	mg/Kg	☼	01/19/15 10:30	01/20/15 13:39	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		01/19/15 11:30	01/20/15 11:38	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		01/21/15 11:30	01/22/15 11:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	16	J	18	6.4	ug/Kg	☼	01/16/15 13:00	01/19/15 10:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.52		0.200	0.200	SU			01/21/15 09:43	1

Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90850-1

Qualifiers

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.
F1	MS and/or MSD Recovery exceeds the control limits
F2	MS/MSD RPD exceeds control limits
X	Surrogate is outside control limits

Metals

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90850-1

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-15

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

Analysis Method	Prep Method	Matrix	Analyte
7470A	7470A	Solid	Mercury
8260B		Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

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TestAmerica

THE LEADER IN ENVIRONMENTAL

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



500-90850 COC

Report To (optional)
Contact: S. Babusukumar
Company: Weston Solutions
Address: 300 Plaza Circle Ste 202
Address: Mundelein, IL 60060
Phone: (815) 224-1224
Fax: (224) 864-7200
E-Mail:

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

Chain of Custody Record

Lab Job #: 500-90850
Chain of Custody Number:
Page 3 of 3
Temperature °C of Cooler: 3.1, 3.5

Client		Client Project #		Preservative		Parameter		Preservative Key						
Weston				7	7	7	7	7	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 #		Containers		Matrix		Comments						
IDOT 001				# of	Matrix									
Project Location/State		Sampler		Date		Time								
IL		M. Strow												
MS/MSD		Sample ID		Date		Time								
1		W-6(0-3)-011515		1/15/15	1250	2	S	X	X	X	X	X		
2		W-6(0-3)-011515D			1250									
3		OT-1(0-3)-011515			1310									
4		A45-1(0-3)-011515			1330									
A43-1(0-3)-011515										AND NOT INCLUDED				
5		A41-4(0-3)-011515			1355									
6		A41-3(0-3)-011515			1405									
7		A41-2(0-3)-011515			1410									
8		A41-1(0-3)-011515			1420									
9		ROW-3(0-3)-011515			1435									

Turnaround Time Required (Business Days)

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

Standard

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>Weston</u> Company Date <u>1/15/15</u>	Time <u>1500</u>	Received By <u>[Signature]</u> Company Date <u>1/15/15</u>	Time <u>1500</u>
Relinquished By <u>[Signature]</u> Company Date <u>1/15/15</u>	Time <u>1655</u>	Received By <u>[Signature]</u> Company Date <u>1/16/15</u>	Time <u>0725</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:



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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 346: US 41 from IL 21 to West Park Ave Office Phone Number, if available: _____

Physical Site Location (address, including number and street):
460 A-B Keller Drive

City: Park City State: IL Zip Code: _____

County: Lake Township: _____

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

Latitude: 42.35463838 Longitude: -87.89407815
(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: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

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

Project Name: FAP 346: US 41 from IL 21 to West Park Ave

Latitude: 42.35463838 Longitude: -87.89407815

Uncontaminated Site Certification

III. Basis for Certification and Attachments

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

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

LOCATION MC-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2668A-59. SEE FIGURE 3-5 AND TABLE 4-1 OF THE REVISED 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]:

TEST AMERICA ANALYTICAL REPORT - JOB ID: 500-90937-1

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

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

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

Company Name: Illinois Department of Transportation

Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Kurt T. Fischer P.G.

Printed Name:



2/9/15

Date:



Licensed Professional Engineer or Licensed Professional Geologist Signature:

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

Summary Table of ISGS Site No. 2668A-59
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 346: US Route 41 (Skokie Highway) from IL Route 21 to West Park Avenue
Gurnee, Park City, Waukegan, and North Chicago, Lake County, Illinois

Field Sample ID	MC-1(0-3)-011615	Soil Reference Concentrations^A
Sample Date	1/16/2015	
Location ID	MC-1	
Depth	0 - 3	
ISGS Site Number	2668A-59	
Parameter		
Laboratory pH (s.u.)	7.92	<6.25,>9.0
VOCs (ug/kg)		
Acetone	23	25000
SVOCs (ug/kg)		
Benzo(b)fluoranthene	9.6 J	900 / 1500 / 2100
Fluoranthene	9.5 J	3100000
Total Metals (mg/kg)		
Arsenic, Total	6.5 J+	11.3 / 13
Barium, Total	55 J	1500
Beryllium, Total	0.68	22
Cadmium, Total	0.038 J	5.2
Calcium, Total	52000 J-	---
Chromium, Total	19	21
Cobalt, Total	9.6	20
Copper, Total	20 J	2900
Iron, Total	18000 J+	15000 / 15900
Lead, Total	12 J	107
Magnesium, Total	28000 J-	325000
Manganese, Total	540 J	630 / 636
Mercury, Total	0.022	0.89
Nickel, Total	24	100
Potassium, Total	3400 J+	---
Sodium, Total	2600	---
Thallium, Total	0.54 J	2.6
Vanadium, Total	23	550
Zinc, Total	44 J	5100
TCLP Metals (mg/l)		
Barium, TCLP	0.49 J	2
Copper, TCLP	0.1	0.65
Iron, TCLP	0.4	5
Lead, TCLP	0.016	0.0075
Manganese, TCLP	3.6	0.15
Nickel, TCLP	0.011 J	0.1
Zinc, TCLP	0.093 J	5
SPLP Metals (mg/l)		
Arsenic, SPLP	0.032 J	0.05
Barium, SPLP	0.35 J	2
Beryllium, SPLP	0.0043	0.004
Chromium, SPLP	0.1	0.1
Cobalt, SPLP	0.037	1
Copper, SPLP	0.14	0.65
Iron, SPLP	86	5
Lead, SPLP	0.052	0.0075
Manganese, SPLP	1.4	0.15
Nickel, SPLP	0.1	0.1
Zinc, SPLP	0.24	5

Notes:

--- - not applicable or value not available.

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

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: 500-90937-1
Client Project/Site: IDOT - Lake County - WO 001

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

Attn: Mr. S. Babusukumar



Authorized for release by:
1/26/2015 1:40:42 PM

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 - Lake County - WO 001

TestAmerica Job ID: 500-90937-1

Client Sample ID: MC-1(0-3)-011615

Lab Sample ID: 500-90937-3

Date Collected: 01/16/15 12:53

Matrix: Solid

Date Received: 01/16/15 16:00

Percent Solids: 85.7

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	23		5.8	2.5	ug/Kg	☼		01/19/15 20:44	1
Benzene	<5.8		5.8	0.80	ug/Kg	☼		01/19/15 20:44	1
Bromodichloromethane	<5.8		5.8	1.0	ug/Kg	☼		01/19/15 20:44	1
Bromoform	<5.8		5.8	1.3	ug/Kg	☼		01/19/15 20:44	1
Bromomethane	<5.8		5.8	1.8	ug/Kg	☼		01/19/15 20:44	1
Carbon disulfide	<5.8		5.8	0.87	ug/Kg	☼		01/19/15 20:44	1
Carbon tetrachloride	<5.8		5.8	1.1	ug/Kg	☼		01/19/15 20:44	1
Chlorobenzene	<5.8		5.8	0.59	ug/Kg	☼		01/19/15 20:44	1
Chloroethane	<5.8		5.8	1.6	ug/Kg	☼		01/19/15 20:44	1
Chloroform	<5.8		5.8	0.67	ug/Kg	☼		01/19/15 20:44	1
Chloromethane	<5.8		5.8	1.2	ug/Kg	☼		01/19/15 20:44	1
cis-1,2-Dichloroethene	<5.8		5.8	0.83	ug/Kg	☼		01/19/15 20:44	1
cis-1,3-Dichloropropene	<5.8		5.8	0.77	ug/Kg	☼		01/19/15 20:44	1
Dibromochloromethane	<5.8		5.8	1.0	ug/Kg	☼		01/19/15 20:44	1
1,1-Dichloroethane	<5.8		5.8	0.92	ug/Kg	☼		01/19/15 20:44	1
1,2-Dichloroethane	<5.8		5.8	0.86	ug/Kg	☼		01/19/15 20:44	1
1,1,1-Dichloroethene	<5.8		5.8	0.94	ug/Kg	☼		01/19/15 20:44	1
1,2-Dichloropropane	<5.8		5.8	0.89	ug/Kg	☼		01/19/15 20:44	1
1,3-Dichloropropene, Total	<5.8		5.8	0.77	ug/Kg	☼		01/19/15 20:44	1
Ethylbenzene	<5.8		5.8	1.2	ug/Kg	☼		01/19/15 20:44	1
2-Hexanone	<5.8		5.8	1.7	ug/Kg	☼		01/19/15 20:44	1
Methylene Chloride	<5.8		5.8	1.6	ug/Kg	☼		01/19/15 20:44	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		01/19/15 20:44	1
methyl isobutyl ketone	<5.8		5.8	1.5	ug/Kg	☼		01/19/15 20:44	1
Methyl tert-butyl ether	<5.8		5.8	0.96	ug/Kg	☼		01/19/15 20:44	1
Styrene	<5.8		5.8	0.77	ug/Kg	☼		01/19/15 20:44	1
1,1,1,2-Tetrachloroethane	<5.8		5.8	1.2	ug/Kg	☼		01/19/15 20:44	1
Tetrachloroethene	<5.8		5.8	0.89	ug/Kg	☼		01/19/15 20:44	1
Toluene	<5.8		5.8	0.82	ug/Kg	☼		01/19/15 20:44	1
trans-1,2-Dichloroethene	<5.8		5.8	0.80	ug/Kg	☼		01/19/15 20:44	1
trans-1,3-Dichloropropene	<5.8		5.8	1.0	ug/Kg	☼		01/19/15 20:44	1
1,1,1-Trichloroethane	<5.8		5.8	0.87	ug/Kg	☼		01/19/15 20:44	1
1,1,2-Trichloroethane	<5.8		5.8	0.80	ug/Kg	☼		01/19/15 20:44	1
Trichloroethene	<5.8		5.8	0.96	ug/Kg	☼		01/19/15 20:44	1
Vinyl chloride	<5.8		5.8	1.2	ug/Kg	☼		01/19/15 20:44	1
Xylenes, Total	<12		12	0.53	ug/Kg	☼		01/19/15 20:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122		01/19/15 20:44	1
Dibromofluoromethane	102		75 - 120		01/19/15 20:44	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134		01/19/15 20:44	1
Toluene-d8 (Surr)	97		75 - 122		01/19/15 20:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	41	ug/Kg	☼	01/19/15 07:34	01/22/15 17:56	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	01/19/15 07:34	01/22/15 17:56	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	01/19/15 07:34	01/22/15 17:56	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	01/19/15 07:34	01/22/15 17:56	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	01/19/15 07:34	01/22/15 17:56	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90937-1

Client Sample ID: MC-1(0-3)-011615

Lab Sample ID: 500-90937-3

Date Collected: 01/16/15 12:53

Matrix: Solid

Date Received: 01/16/15 16:00

Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<380		380	87	ug/Kg	☼	01/19/15 07:34	01/22/15 17:56	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	01/19/15 07:34	01/22/15 17:56	1
2,4-Dichlorophenol	<380		380	91	ug/Kg	☼	01/19/15 07:34	01/22/15 17:56	1
2,4-Dimethylphenol	<380		380	140	ug/Kg	☼	01/19/15 07:34	01/22/15 17:56	1
2,4-Dinitrophenol	<770	*	770	670	ug/Kg	☼	01/19/15 07:34	01/22/15 17:56	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	01/19/15 07:34	01/22/15 17:56	1
2,6-Dinitrotoluene	<190		190	75	ug/Kg	☼	01/19/15 07:34	01/22/15 17:56	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	01/19/15 07:34	01/22/15 17:56	1
2-Chlorophenol	<190		190	65	ug/Kg	☼	01/19/15 07:34	01/22/15 17:56	1
2-Methylnaphthalene	<38		38	7.0	ug/Kg	☼	01/19/15 07:34	01/22/15 17:56	1
2-Methylphenol	<190		190	61	ug/Kg	☼	01/19/15 07:34	01/22/15 17:56	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	01/19/15 07:34	01/22/15 17:56	1
2-Nitrophenol	<380		380	90	ug/Kg	☼	01/19/15 07:34	01/22/15 17:56	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	☼	01/19/15 07:34	01/22/15 17:56	1
3,3'-Dichlorobenzidine	<190		190	53	ug/Kg	☼	01/19/15 07:34	01/22/15 17:56	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	01/19/15 07:34	01/22/15 17:56	1
4,6-Dinitro-2-methylphenol	<380	*	380	310	ug/Kg	☼	01/19/15 07:34	01/22/15 17:56	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	01/19/15 07:34	01/22/15 17:56	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	01/19/15 07:34	01/22/15 17:56	1
4-Chloroaniline	<770		770	180	ug/Kg	☼	01/19/15 07:34	01/22/15 17:56	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	01/19/15 07:34	01/22/15 17:56	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	01/19/15 07:34	01/22/15 17:56	1
4-Nitrophenol	<770		770	360	ug/Kg	☼	01/19/15 07:34	01/22/15 17:56	1
Acenaphthene	<38		38	6.9	ug/Kg	☼	01/19/15 07:34	01/22/15 17:56	1
Acenaphthylene	<38		38	5.0	ug/Kg	☼	01/19/15 07:34	01/22/15 17:56	1
Anthracene	<38		38	6.4	ug/Kg	☼	01/19/15 07:34	01/22/15 17:56	1
Benzo[a]anthracene	<38		38	5.1	ug/Kg	☼	01/19/15 07:34	01/22/15 17:56	1
Benzo[a]pyrene	<38		38	7.4	ug/Kg	☼	01/19/15 07:34	01/22/15 17:56	1
Benzo[b]fluoranthene	9.6	J	38	8.2	ug/Kg	☼	01/19/15 07:34	01/22/15 17:56	1
Benzo[g,h,i]perylene	<38		38	12	ug/Kg	☼	01/19/15 07:34	01/22/15 17:56	1
Benzo[k]fluoranthene	<38		38	11	ug/Kg	☼	01/19/15 07:34	01/22/15 17:56	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	01/19/15 07:34	01/22/15 17:56	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	01/19/15 07:34	01/22/15 17:56	1
Bis(2-ethylhexyl) phthalate	<190		190	70	ug/Kg	☼	01/19/15 07:34	01/22/15 17:56	1
Butyl benzyl phthalate	<190		190	73	ug/Kg	☼	01/19/15 07:34	01/22/15 17:56	1
Carbazole	<190		190	99	ug/Kg	☼	01/19/15 07:34	01/22/15 17:56	1
Chrysene	<38		38	10	ug/Kg	☼	01/19/15 07:34	01/22/15 17:56	1
Dibenz(a,h)anthracene	<38	*	38	7.4	ug/Kg	☼	01/19/15 07:34	01/22/15 17:56	1
Dibenzofuran	<190		190	45	ug/Kg	☼	01/19/15 07:34	01/22/15 17:56	1
Diethyl phthalate	<190		190	65	ug/Kg	☼	01/19/15 07:34	01/22/15 17:56	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	01/19/15 07:34	01/22/15 17:56	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	01/19/15 07:34	01/22/15 17:56	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	01/19/15 07:34	01/22/15 17:56	1
Fluoranthene	9.5	J	38	7.1	ug/Kg	☼	01/19/15 07:34	01/22/15 17:56	1
Fluorene	<38		38	5.4	ug/Kg	☼	01/19/15 07:34	01/22/15 17:56	1
Hexachlorobenzene	<77		77	8.9	ug/Kg	☼	01/19/15 07:34	01/22/15 17:56	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	01/19/15 07:34	01/22/15 17:56	1
Hexachlorocyclopentadiene	<770		770	220	ug/Kg	☼	01/19/15 07:34	01/22/15 17:56	1
Hexachloroethane	<190		190	58	ug/Kg	☼	01/19/15 07:34	01/22/15 17:56	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90937-1

Client Sample ID: MC-1(0-3)-011615

Lab Sample ID: 500-90937-3

Date Collected: 01/16/15 12:53

Matrix: Solid

Date Received: 01/16/15 16:00

Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<38		38	9.9	ug/Kg	*	01/19/15 07:34	01/22/15 17:56	1
Isophorone	<190		190	43	ug/Kg	*	01/19/15 07:34	01/22/15 17:56	1
Naphthalene	<38		38	5.9	ug/Kg	*	01/19/15 07:34	01/22/15 17:56	1
Nitrobenzene	<38		38	9.5	ug/Kg	*	01/19/15 07:34	01/22/15 17:56	1
N-Nitrosodi-n-propylamine	<190		190	47	ug/Kg	*	01/19/15 07:34	01/22/15 17:56	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	*	01/19/15 07:34	01/22/15 17:56	1
Pentachlorophenol	<770		770	610	ug/Kg	*	01/19/15 07:34	01/22/15 17:56	1
Phenanthrene	<38		38	5.3	ug/Kg	*	01/19/15 07:34	01/22/15 17:56	1
Phenol	<190		190	85	ug/Kg	*	01/19/15 07:34	01/22/15 17:56	1
Pyrene	<38		38	7.6	ug/Kg	*	01/19/15 07:34	01/22/15 17:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	42		35 - 137				01/19/15 07:34	01/22/15 17:56	1
2-Fluorobiphenyl	49		25 - 119				01/19/15 07:34	01/22/15 17:56	1
2-Fluorophenol	52		25 - 110				01/19/15 07:34	01/22/15 17:56	1
Nitrobenzene-d5	44		25 - 115				01/19/15 07:34	01/22/15 17:56	1
Phenol-d5	51		31 - 110				01/19/15 07:34	01/22/15 17:56	1
Terphenyl-d14	77		36 - 134				01/19/15 07:34	01/22/15 17:56	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		01/20/15 08:00	01/20/15 18:35	1
Barium	0.49	J	0.50	0.050	mg/L		01/20/15 08:00	01/20/15 18:35	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/20/15 08:00	01/20/15 18:35	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/20/15 08:00	01/20/15 18:35	1
Chromium	<0.025		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 18:35	1
Cobalt	<0.025		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 18:35	1
Copper	0.10		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 18:35	1
Iron	0.40		0.20	0.20	mg/L		01/20/15 08:00	01/20/15 18:35	1
Lead	0.016		0.0075	0.0075	mg/L		01/20/15 08:00	01/20/15 18:35	1
Manganese	3.6		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 18:35	1
Nickel	0.011	J	0.025	0.010	mg/L		01/20/15 08:00	01/20/15 18:35	1
Selenium	<0.050		0.050	0.020	mg/L		01/20/15 08:00	01/20/15 18:35	1
Silver	<0.025		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 18:35	1
Zinc	0.093	J	0.10	0.020	mg/L		01/20/15 08:00	01/20/15 18:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.032	J	0.050	0.010	mg/L		01/20/15 14:30	01/22/15 03:54	1
Barium	0.35	J	0.50	0.050	mg/L		01/20/15 14:30	01/22/15 03:54	1
Beryllium	0.0043		0.0040	0.0040	mg/L		01/20/15 14:30	01/22/15 03:54	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/20/15 14:30	01/22/15 03:54	1
Chromium	0.10		0.025	0.010	mg/L		01/20/15 14:30	01/22/15 03:54	1
Cobalt	0.037		0.025	0.010	mg/L		01/20/15 14:30	01/22/15 03:54	1
Copper	0.14		0.025	0.010	mg/L		01/20/15 14:30	01/22/15 03:54	1
Iron	86		0.20	0.20	mg/L		01/20/15 14:30	01/22/15 03:54	1
Lead	0.052		0.0075	0.0075	mg/L		01/20/15 14:30	01/22/15 03:54	1
Manganese	1.4		0.025	0.010	mg/L		01/20/15 14:30	01/22/15 03:54	1
Nickel	0.10		0.025	0.010	mg/L		01/20/15 14:30	01/22/15 03:54	1
Selenium	<0.050		0.050	0.020	mg/L		01/20/15 14:30	01/22/15 03:54	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90937-1

Client Sample ID: MC-1(0-3)-011615

Lab Sample ID: 500-90937-3

Date Collected: 01/16/15 12:53

Matrix: Solid

Date Received: 01/16/15 16:00

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		01/20/15 14:30	01/22/15 03:54	1
Zinc	0.24		0.10	0.020	mg/L		01/20/15 14:30	01/22/15 03:54	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.50	J B	1.1	0.24	mg/Kg	☼	01/19/15 16:20	01/20/15 23:59	1
Arsenic	6.5		0.57	0.26	mg/Kg	☼	01/19/15 16:20	01/20/15 23:59	1
Barium	55		0.57	0.10	mg/Kg	☼	01/19/15 16:20	01/20/15 23:59	1
Beryllium	0.68		0.23	0.050	mg/Kg	☼	01/19/15 16:20	01/20/15 23:59	1
Cadmium	0.038	J	0.11	0.033	mg/Kg	☼	01/19/15 16:20	01/21/15 16:11	1
Calcium	52000		11	3.7	mg/Kg	☼	01/19/15 16:20	01/20/15 23:59	1
Chromium	19		0.57	0.099	mg/Kg	☼	01/19/15 16:20	01/20/15 23:59	1
Cobalt	9.6		0.29	0.065	mg/Kg	☼	01/19/15 16:20	01/20/15 23:59	1
Copper	20		0.57	0.12	mg/Kg	☼	01/19/15 16:20	01/20/15 23:59	1
Iron	18000		11	4.4	mg/Kg	☼	01/19/15 16:20	01/20/15 23:59	1
Lead	12		0.29	0.14	mg/Kg	☼	01/19/15 16:20	01/20/15 23:59	1
Magnesium	28000		5.7	2.3	mg/Kg	☼	01/19/15 16:20	01/20/15 23:59	1
Manganese	540		0.57	0.11	mg/Kg	☼	01/19/15 16:20	01/20/15 23:59	1
Nickel	24		0.57	0.16	mg/Kg	☼	01/19/15 16:20	01/20/15 23:59	1
Potassium	3400		29	4.7	mg/Kg	☼	01/19/15 16:20	01/20/15 23:59	1
Selenium	<0.57		0.57	0.28	mg/Kg	☼	01/19/15 16:20	01/20/15 23:59	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	01/19/15 16:20	01/20/15 23:59	1
Sodium	2600		57	7.6	mg/Kg	☼	01/19/15 16:20	01/20/15 23:59	1
Thallium	0.54	J	0.57	0.28	mg/Kg	☼	01/19/15 16:20	01/20/15 23:59	1
Vanadium	23		0.29	0.084	mg/Kg	☼	01/19/15 16:20	01/20/15 23:59	1
Zinc	44	B	1.1	0.36	mg/Kg	☼	01/19/15 16:20	01/20/15 23:59	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		01/21/15 11:30	01/22/15 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		01/21/15 11:30	01/22/15 11:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	22		18	6.4	ug/Kg	☼	01/19/15 14:30	01/20/15 08:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.92		0.200	0.200	SU			01/21/15 13:57	1

Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90937-1

Qualifiers

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F3	Duplicate RPD exceeds the control limit
F1	MS and/or MSD Recovery exceeds the control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F2	MS/MSD RPD exceeds control limits

Glossary

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

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90937-1

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-15

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

Analysis Method	Prep Method	Matrix	Analyte
7470A	7470A	Solid	Mercury
8260B		Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids



Report To (optional)
Contact: S. Babusukumar
Company: Weston Solutions
Address: 500 Plaza Circle Ste 202
Mundelein, IL 60060
Phone: (224) 864-7200
Fax:
E-Mail:

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

Chain of Custody Record

Lab Job #: 500-90937

Chain of Custody Number:

Page 3 of 3

Temperature °C of Cooler: 4.2

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		Matrix			
Project Location/State		Lab Project #		Matrix		Matrix		Matrix			
Sampler		Lab RM		Matrix		Matrix		Matrix		Comments	
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	Matrix	Matrix	Matrix		
1		C61-1(0-3)-011615D	1/16/15	1230	2	S	VOCs	SVOCs	Total Metals		TCUP/SPLP Metals
2		V60-1(0-3)-011615		1245							
3		MC-1(0-3)-011615		1253							
4		ROW-12(0-3)-011615		1310							
5		ROW-11(0-3)-011615		1335							
6		ROW-10(0-3)-011615		1355							
7		ROW-9(0-3)-011615		1345							
Weston 1/16/15											

Turnaround Time Required (Business Days)

1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Standard 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>Weston</u> Company: <u>Weston</u> Date: <u>1/16/15</u> Time: <u>1420</u>	Received By: <u>TA</u> Company: <u>TA</u> Date: <u>1/16/15</u> Time: <u>1420</u>
Relinquished By: <u>TA</u> Company: <u>TA</u> Date: <u>1/16/15</u> Time: <u>1600</u>	Received By: <u>TA</u> Company: <u>TA</u> Date: <u>1/16/15</u> Time: <u>1600</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:



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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 346: US 41 from IL 21 to West Park Ave Office Phone Number, if available: _____

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

470 Keller Drive

City: Park City State: IL Zip Code: _____

County: Lake Township: _____

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

Latitude: 42.354149821 Longitude: -87.893847353
(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: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

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

Project Name: FAP 346: US 41 from IL 21 to West Park Ave

Latitude: 42.354149821 Longitude: -87.893847353

Uncontaminated Site Certification

III. Basis for Certification and Attachments

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

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

LOCATION V60-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2668A-60. SEE FIGURE 3-6 AND TABLE 4-1 OF THE REVISED 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]:

TEST AMERICA ANALYTICAL REPORT - JOB ID: 500-90937-1

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

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

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

Company Name: Illinois Department of Transportation

Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Kurt T. Fischer P.G.

Printed Name:

2/9/15

Date:

Licensed Professional Engineer or
Licensed Professional Geologist Signature:



P.G. Seal:

Summary Table of ISGS Site No. 2668A-60
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 346: US Route 41 (Skokie Highway) from IL Route 21 to West Park Avenue
Gurnee, Park City, Waukegan, and North Chicago, Lake County, Illinois

Field Sample ID	V60-1(0-3)-011615	Soil Reference Concentrations^A
Sample Date	1/16/2015	
Location ID	V60-1	
Depth	0 - 3	
ISGS Site Number	2668A-60	
Parameter		
Laboratory pH (s.u.)	7.79	<6.25,>9.0
VOCs (ug/kg)	None Detected	
SVOCs (ug/kg)	None Detected	
Total Metals (mg/kg)		
Arsenic, Total	7.1 J+	11.3 / 13
Barium, Total	48 J	1500
Beryllium, Total	0.65	22
Cadmium, Total	0.037 J	5.2
Calcium, Total	84000 J-	---
Chromium, Total	18	21
Cobalt, Total	9.4	20
Copper, Total	21 J	2900
Iron, Total	19000 J+	15000 / 15900
Lead, Total	13 J	107
Magnesium, Total	32000 J-	325000
Manganese, Total	500 J	630 / 636
Mercury, Total	0.012 J	0.89
Nickel, Total	24	100
Potassium, Total	3200 J+	---
Sodium, Total	1700	---
Thallium, Total	0.53 J	2.6
Vanadium, Total	22	550
Zinc, Total	44 J	5100
TCLP Metals (mg/l)		
Barium, TCLP	0.39 J	2
Copper, TCLP	0.031	0.65
Iron, TCLP	0.2	5
Manganese, TCLP	2.2	0.15
Nickel, TCLP	0.01 J	0.1
Zinc, TCLP	0.061 J	5
SPLP Metals (mg/l)		
Arsenic, SPLP	0.035 J	0.05
Barium, SPLP	0.36 J	2
Beryllium, SPLP	0.0048	0.004
Chromium, SPLP	0.11	0.1
Cobalt, SPLP	0.037	1
Copper, SPLP	0.15	0.65
Iron, SPLP	93	5
Lead, SPLP	0.052	0.0075
Manganese, SPLP	0.97	0.15
Nickel, SPLP	0.11	0.1
Zinc, SPLP	0.26	5

Notes:

--- - not applicable or value not available.

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

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: 500-90937-1
Client Project/Site: IDOT - Lake County - WO 001

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

Attn: Mr. S. Babusukumar



Authorized for release by:
1/26/2015 1:40:42 PM

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

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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 - Lake County - WO 001

TestAmerica Job ID: 500-90937-1

Client Sample ID: V60-1(0-3)-011615

Lab Sample ID: 500-90937-2

Date Collected: 01/16/15 12:45

Matrix: Solid

Date Received: 01/16/15 16:00

Percent Solids: 86.1

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.8		5.8	2.5	ug/Kg	*		01/19/15 20:19	1
Benzene	<5.8		5.8	0.80	ug/Kg	*		01/19/15 20:19	1
Bromodichloromethane	<5.8		5.8	1.0	ug/Kg	*		01/19/15 20:19	1
Bromoform	<5.8		5.8	1.3	ug/Kg	*		01/19/15 20:19	1
Bromomethane	<5.8		5.8	1.8	ug/Kg	*		01/19/15 20:19	1
Carbon disulfide	<5.8		5.8	0.87	ug/Kg	*		01/19/15 20:19	1
Carbon tetrachloride	<5.8		5.8	1.1	ug/Kg	*		01/19/15 20:19	1
Chlorobenzene	<5.8		5.8	0.59	ug/Kg	*		01/19/15 20:19	1
Chloroethane	<5.8		5.8	1.6	ug/Kg	*		01/19/15 20:19	1
Chloroform	<5.8		5.8	0.67	ug/Kg	*		01/19/15 20:19	1
Chloromethane	<5.8		5.8	1.2	ug/Kg	*		01/19/15 20:19	1
cis-1,2-Dichloroethene	<5.8		5.8	0.82	ug/Kg	*		01/19/15 20:19	1
cis-1,3-Dichloropropene	<5.8		5.8	0.76	ug/Kg	*		01/19/15 20:19	1
Dibromochloromethane	<5.8		5.8	1.0	ug/Kg	*		01/19/15 20:19	1
1,1-Dichloroethane	<5.8		5.8	0.92	ug/Kg	*		01/19/15 20:19	1
1,2-Dichloroethane	<5.8		5.8	0.86	ug/Kg	*		01/19/15 20:19	1
1,1,1-Dichloroethene	<5.8		5.8	0.94	ug/Kg	*		01/19/15 20:19	1
1,2-Dichloropropane	<5.8		5.8	0.88	ug/Kg	*		01/19/15 20:19	1
1,3-Dichloropropene, Total	<5.8		5.8	0.76	ug/Kg	*		01/19/15 20:19	1
Ethylbenzene	<5.8		5.8	1.2	ug/Kg	*		01/19/15 20:19	1
2-Hexanone	<5.8		5.8	1.7	ug/Kg	*		01/19/15 20:19	1
Methylene Chloride	<5.8		5.8	1.6	ug/Kg	*		01/19/15 20:19	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	*		01/19/15 20:19	1
methyl isobutyl ketone	<5.8		5.8	1.5	ug/Kg	*		01/19/15 20:19	1
Methyl tert-butyl ether	<5.8		5.8	0.96	ug/Kg	*		01/19/15 20:19	1
Styrene	<5.8		5.8	0.76	ug/Kg	*		01/19/15 20:19	1
1,1,1,2-Tetrachloroethane	<5.8		5.8	1.2	ug/Kg	*		01/19/15 20:19	1
Tetrachloroethene	<5.8		5.8	0.89	ug/Kg	*		01/19/15 20:19	1
Toluene	<5.8		5.8	0.81	ug/Kg	*		01/19/15 20:19	1
trans-1,2-Dichloroethene	<5.8		5.8	0.80	ug/Kg	*		01/19/15 20:19	1
trans-1,3-Dichloropropene	<5.8		5.8	1.0	ug/Kg	*		01/19/15 20:19	1
1,1,1-Trichloroethane	<5.8		5.8	0.87	ug/Kg	*		01/19/15 20:19	1
1,1,2-Trichloroethane	<5.8		5.8	0.79	ug/Kg	*		01/19/15 20:19	1
Trichloroethene	<5.8		5.8	0.96	ug/Kg	*		01/19/15 20:19	1
Vinyl chloride	<5.8		5.8	1.2	ug/Kg	*		01/19/15 20:19	1
Xylenes, Total	<12		12	0.53	ug/Kg	*		01/19/15 20:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122		01/19/15 20:19	1
Dibromofluoromethane	105		75 - 120		01/19/15 20:19	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134		01/19/15 20:19	1
Toluene-d8 (Surr)	96		75 - 122		01/19/15 20:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	41	ug/Kg	*	01/19/15 07:34	01/22/15 17:34	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	*	01/19/15 07:34	01/22/15 17:34	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	*	01/19/15 07:34	01/22/15 17:34	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	*	01/19/15 07:34	01/22/15 17:34	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	*	01/19/15 07:34	01/22/15 17:34	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90937-1

Client Sample ID: V60-1(0-3)-011615

Lab Sample ID: 500-90937-2

Date Collected: 01/16/15 12:45

Matrix: Solid

Date Received: 01/16/15 16:00

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	☼	01/19/15 07:34	01/22/15 17:34	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	01/19/15 07:34	01/22/15 17:34	1
2,4-Dichlorophenol	<380		380	91	ug/Kg	☼	01/19/15 07:34	01/22/15 17:34	1
2,4-Dimethylphenol	<380		380	140	ug/Kg	☼	01/19/15 07:34	01/22/15 17:34	1
2,4-Dinitrophenol	<770	*	770	670	ug/Kg	☼	01/19/15 07:34	01/22/15 17:34	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	01/19/15 07:34	01/22/15 17:34	1
2,6-Dinitrotoluene	<190		190	75	ug/Kg	☼	01/19/15 07:34	01/22/15 17:34	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	01/19/15 07:34	01/22/15 17:34	1
2-Chlorophenol	<190		190	65	ug/Kg	☼	01/19/15 07:34	01/22/15 17:34	1
2-Methylnaphthalene	<38		38	7.0	ug/Kg	☼	01/19/15 07:34	01/22/15 17:34	1
2-Methylphenol	<190		190	61	ug/Kg	☼	01/19/15 07:34	01/22/15 17:34	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	01/19/15 07:34	01/22/15 17:34	1
2-Nitrophenol	<380		380	90	ug/Kg	☼	01/19/15 07:34	01/22/15 17:34	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	☼	01/19/15 07:34	01/22/15 17:34	1
3,3'-Dichlorobenzidine	<190		190	53	ug/Kg	☼	01/19/15 07:34	01/22/15 17:34	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	01/19/15 07:34	01/22/15 17:34	1
4,6-Dinitro-2-methylphenol	<380	*	380	310	ug/Kg	☼	01/19/15 07:34	01/22/15 17:34	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	01/19/15 07:34	01/22/15 17:34	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	01/19/15 07:34	01/22/15 17:34	1
4-Chloroaniline	<770		770	180	ug/Kg	☼	01/19/15 07:34	01/22/15 17:34	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	01/19/15 07:34	01/22/15 17:34	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	01/19/15 07:34	01/22/15 17:34	1
4-Nitrophenol	<770		770	360	ug/Kg	☼	01/19/15 07:34	01/22/15 17:34	1
Acenaphthene	<38		38	6.9	ug/Kg	☼	01/19/15 07:34	01/22/15 17:34	1
Acenaphthylene	<38		38	5.0	ug/Kg	☼	01/19/15 07:34	01/22/15 17:34	1
Anthracene	<38		38	6.4	ug/Kg	☼	01/19/15 07:34	01/22/15 17:34	1
Benzo[a]anthracene	<38		38	5.1	ug/Kg	☼	01/19/15 07:34	01/22/15 17:34	1
Benzo[a]pyrene	<38		38	7.4	ug/Kg	☼	01/19/15 07:34	01/22/15 17:34	1
Benzo[b]fluoranthene	<38		38	8.2	ug/Kg	☼	01/19/15 07:34	01/22/15 17:34	1
Benzo[g,h,i]perylene	<38		38	12	ug/Kg	☼	01/19/15 07:34	01/22/15 17:34	1
Benzo[k]fluoranthene	<38		38	11	ug/Kg	☼	01/19/15 07:34	01/22/15 17:34	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	01/19/15 07:34	01/22/15 17:34	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	01/19/15 07:34	01/22/15 17:34	1
Bis(2-ethylhexyl) phthalate	<190		190	70	ug/Kg	☼	01/19/15 07:34	01/22/15 17:34	1
Butyl benzyl phthalate	<190		190	73	ug/Kg	☼	01/19/15 07:34	01/22/15 17:34	1
Carbazole	<190		190	99	ug/Kg	☼	01/19/15 07:34	01/22/15 17:34	1
Chrysene	<38		38	10	ug/Kg	☼	01/19/15 07:34	01/22/15 17:34	1
Dibenz(a,h)anthracene	<38		38	7.4	ug/Kg	☼	01/19/15 07:34	01/22/15 17:34	1
Dibenzofuran	<190		190	45	ug/Kg	☼	01/19/15 07:34	01/22/15 17:34	1
Diethyl phthalate	<190		190	65	ug/Kg	☼	01/19/15 07:34	01/22/15 17:34	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	01/19/15 07:34	01/22/15 17:34	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	01/19/15 07:34	01/22/15 17:34	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	01/19/15 07:34	01/22/15 17:34	1
Fluoranthene	<38		38	7.1	ug/Kg	☼	01/19/15 07:34	01/22/15 17:34	1
Fluorene	<38		38	5.4	ug/Kg	☼	01/19/15 07:34	01/22/15 17:34	1
Hexachlorobenzene	<77		77	8.9	ug/Kg	☼	01/19/15 07:34	01/22/15 17:34	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	01/19/15 07:34	01/22/15 17:34	1
Hexachlorocyclopentadiene	<770		770	220	ug/Kg	☼	01/19/15 07:34	01/22/15 17:34	1
Hexachloroethane	<190		190	58	ug/Kg	☼	01/19/15 07:34	01/22/15 17:34	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90937-1

Client Sample ID: V60-1(0-3)-011615

Lab Sample ID: 500-90937-2

Date Collected: 01/16/15 12:45

Matrix: Solid

Date Received: 01/16/15 16:00

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	<38		38	9.9	ug/Kg	☼	01/19/15 07:34	01/22/15 17:34	1
Isophorone	<190		190	43	ug/Kg	☼	01/19/15 07:34	01/22/15 17:34	1
Naphthalene	<38		38	5.9	ug/Kg	☼	01/19/15 07:34	01/22/15 17:34	1
Nitrobenzene	<38		38	9.5	ug/Kg	☼	01/19/15 07:34	01/22/15 17:34	1
N-Nitrosodi-n-propylamine	<190		190	47	ug/Kg	☼	01/19/15 07:34	01/22/15 17:34	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	01/19/15 07:34	01/22/15 17:34	1
Pentachlorophenol	<770		770	610	ug/Kg	☼	01/19/15 07:34	01/22/15 17:34	1
Phenanthrene	<38		38	5.3	ug/Kg	☼	01/19/15 07:34	01/22/15 17:34	1
Phenol	<190		190	85	ug/Kg	☼	01/19/15 07:34	01/22/15 17:34	1
Pyrene	<38		38	7.6	ug/Kg	☼	01/19/15 07:34	01/22/15 17:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	41		35 - 137				01/19/15 07:34	01/22/15 17:34	1
2-Fluorobiphenyl	51		25 - 119				01/19/15 07:34	01/22/15 17:34	1
2-Fluorophenol	51		25 - 110				01/19/15 07:34	01/22/15 17:34	1
Nitrobenzene-d5	47		25 - 115				01/19/15 07:34	01/22/15 17:34	1
Phenol-d5	52		31 - 110				01/19/15 07:34	01/22/15 17:34	1
Terphenyl-d14	68		36 - 134				01/19/15 07:34	01/22/15 17:34	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		01/20/15 08:00	01/20/15 18:30	1
Barium	0.39	J	0.50	0.050	mg/L		01/20/15 08:00	01/20/15 18:30	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/20/15 08:00	01/20/15 18:30	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/20/15 08:00	01/20/15 18:30	1
Chromium	<0.025		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 18:30	1
Cobalt	<0.025		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 18:30	1
Copper	0.031		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 18:30	1
Iron	0.20		0.20	0.20	mg/L		01/20/15 08:00	01/20/15 18:30	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/20/15 08:00	01/20/15 18:30	1
Manganese	2.2		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 18:30	1
Nickel	0.010	J	0.025	0.010	mg/L		01/20/15 08:00	01/20/15 18:30	1
Selenium	<0.050		0.050	0.020	mg/L		01/20/15 08:00	01/20/15 18:30	1
Silver	<0.025		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 18:30	1
Zinc	0.061	J	0.10	0.020	mg/L		01/20/15 08:00	01/20/15 18:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.035	J	0.050	0.010	mg/L		01/20/15 14:30	01/22/15 03:48	1
Barium	0.36	J	0.50	0.050	mg/L		01/20/15 14:30	01/22/15 03:48	1
Beryllium	0.0048		0.0040	0.0040	mg/L		01/20/15 14:30	01/22/15 03:48	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/20/15 14:30	01/22/15 03:48	1
Chromium	0.11		0.025	0.010	mg/L		01/20/15 14:30	01/22/15 03:48	1
Cobalt	0.037		0.025	0.010	mg/L		01/20/15 14:30	01/22/15 03:48	1
Copper	0.15		0.025	0.010	mg/L		01/20/15 14:30	01/22/15 03:48	1
Iron	93		0.20	0.20	mg/L		01/20/15 14:30	01/22/15 03:48	1
Lead	0.052		0.0075	0.0075	mg/L		01/20/15 14:30	01/22/15 03:48	1
Manganese	0.97		0.025	0.010	mg/L		01/20/15 14:30	01/22/15 03:48	1
Nickel	0.11		0.025	0.010	mg/L		01/20/15 14:30	01/22/15 03:48	1
Selenium	<0.050		0.050	0.020	mg/L		01/20/15 14:30	01/22/15 03:48	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90937-1

Client Sample ID: V60-1(0-3)-011615

Lab Sample ID: 500-90937-2

Date Collected: 01/16/15 12:45

Matrix: Solid

Date Received: 01/16/15 16:00

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		01/20/15 14:30	01/22/15 03:48	1
Zinc	0.26		0.10	0.020	mg/L		01/20/15 14:30	01/22/15 03:48	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.57	J B	1.1	0.24	mg/Kg	☼	01/19/15 16:20	01/20/15 23:52	1
Arsenic	7.1		0.57	0.26	mg/Kg	☼	01/19/15 16:20	01/20/15 23:52	1
Barium	48		0.57	0.10	mg/Kg	☼	01/19/15 16:20	01/20/15 23:52	1
Beryllium	0.65		0.23	0.049	mg/Kg	☼	01/19/15 16:20	01/20/15 23:52	1
Cadmium	0.037	J	0.11	0.033	mg/Kg	☼	01/19/15 16:20	01/21/15 16:02	1
Calcium	84000		110	37	mg/Kg	☼	01/19/15 16:20	01/21/15 16:07	10
Chromium	18		0.57	0.098	mg/Kg	☼	01/19/15 16:20	01/20/15 23:52	1
Cobalt	9.4		0.28	0.064	mg/Kg	☼	01/19/15 16:20	01/20/15 23:52	1
Copper	21		0.57	0.12	mg/Kg	☼	01/19/15 16:20	01/20/15 23:52	1
Iron	19000		11	4.4	mg/Kg	☼	01/19/15 16:20	01/20/15 23:52	1
Lead	13		0.28	0.14	mg/Kg	☼	01/19/15 16:20	01/20/15 23:52	1
Magnesium	32000		5.7	2.3	mg/Kg	☼	01/19/15 16:20	01/20/15 23:52	1
Manganese	500		0.57	0.11	mg/Kg	☼	01/19/15 16:20	01/20/15 23:52	1
Nickel	24		0.57	0.15	mg/Kg	☼	01/19/15 16:20	01/20/15 23:52	1
Potassium	3200		28	4.6	mg/Kg	☼	01/19/15 16:20	01/20/15 23:52	1
Selenium	<0.57		0.57	0.28	mg/Kg	☼	01/19/15 16:20	01/20/15 23:52	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	01/19/15 16:20	01/20/15 23:52	1
Sodium	1700		57	7.5	mg/Kg	☼	01/19/15 16:20	01/20/15 23:52	1
Thallium	0.53	J	0.57	0.28	mg/Kg	☼	01/19/15 16:20	01/20/15 23:52	1
Vanadium	22		0.28	0.083	mg/Kg	☼	01/19/15 16:20	01/20/15 23:52	1
Zinc	44	B	1.1	0.36	mg/Kg	☼	01/19/15 16:20	01/20/15 23:52	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		01/21/15 11:30	01/22/15 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		01/21/15 11:30	01/22/15 11:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	12	J	18	6.4	ug/Kg	☼	01/19/15 14:30	01/20/15 08:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.79		0.200	0.200	SU			01/21/15 13:49	1

Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90937-1

Qualifiers

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F3	Duplicate RPD exceeds the control limit
F1	MS and/or MSD Recovery exceeds the control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F2	MS/MSD RPD exceeds control limits

Glossary

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

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90937-1

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-15

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

Analysis Method	Prep Method	Matrix	Analyte
7470A	7470A	Solid	Mercury
8260B		Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

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12

13

14

15



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

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

Chain of Custody Record

Lab Job #: 500-90937

Chain of Custody Number:

Page 3 of 3

Temperature °C of Cooler: 4.2

Client		Client Project #		Preservative		Parameter		Preservative Key	
<u>Weston</u>				<u>7</u>	<u>7</u>	<u>7</u>	<u>7</u>	<u>7</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 001</u>				<u>2</u>	<u>S</u>	<u>VOCs</u>	<u>SVOCs</u>		
Project Location/State		Lab Project #		Matrix		Matrix			
<u>IL</u>				<u>Total Metals</u>	<u>TCUP/SPLP Metals</u>	<u>PH</u>			
Sampler		Lab RM		Matrix		Matrix			
<u>M. Straw</u>		<u>D. Wright</u>		<u>VOCs</u>	<u>SVOCs</u>	<u>Total Metals</u>	<u>TCUP/SPLP Metals</u>	<u>PH</u>	
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	Matrix	Matrix	Matrix
<u>1</u>		<u>C61-1(0-3)-011615D</u>	<u>1/16/15</u>	<u>1230</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>2</u>		<u>V60-1(0-3)-011615</u>		<u>1245</u>					
<u>3</u>		<u>MC-1(0-3)-011615</u>		<u>1253</u>					
<u>4</u>		<u>ROW-12(0-3)-011615</u>		<u>1310</u>					
<u>5</u>		<u>ROW-11(0-3)-011615</u>		<u>1335</u>					
<u>6</u>		<u>ROW-10(0-3)-011615</u>		<u>1355</u>					
<u>7</u>		<u>ROW-9(0-3)-011615</u>		<u>1345</u>					
<u>M. Straw</u> 1/16/15									

Turnaround Time Required (Business Days)

1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Standard 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>M. Straw</u>	Company: <u>Weston</u>	Date: <u>1/16/15</u>	Time: <u>1420</u>	Received By: <u>[Signature]</u>	Company: <u>TA</u>	Date: <u>1/16/15</u>	Time: <u>1420</u>
Relinquished By: <u>[Signature]</u>	Company: <u>TA</u>	Date: <u>1/16/15</u>	Time: <u>1600</u>	Received By: <u>[Signature]</u>	Company: <u>TA</u>	Date: <u>1/16/15</u>	Time: <u>1600</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:



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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 346: US 41 from IL 21 to West Park Ave Office Phone Number, if available: _____

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

City: Park City State: IL Zip Code: _____

County: Lake Township: _____

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

Latitude: 42.353646418 Longitude: -87.893661278
(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: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

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

Project Name: FAP 346: US 41 from IL 21 to West Park Ave

Latitude: 42.353646418 Longitude: -87.893661278

Uncontaminated Site Certification

III. Basis for Certification and Attachments

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

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

LOCATION C61-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2668A-61. SEE FIGURE 3-6 AND TABLE 4-1 OF THE REVISED 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]:

TEST AMERICA ANALYTICAL REPORT - JOB ID: 500-90936-1 AND
 TEST AMERICA ANALYTICAL REPORT - JOB ID: 500-90937-1.

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

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

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

Company Name: Illinois Department of Transportation

Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Kurt T. Fischer P.G.

Printed Name:



2/9/15

Date:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

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

Summary Table of ISGS Site No. 2668A-61
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 346: US Route 41 (Skokie Highway) from IL Route 21 to West Park Avenue
Gurnee, Park City, Waukegan, and North Chicago, Lake County, Illinois

Field Sample ID	C61-1(0-3)-011615	C61-1(0-3)-011615D	Soil Reference Concentrations ^A
Sample Date	1/16/2015	1/16/2015	
Location ID	C61-1	C61-1	
Depth	0 - 3	0 - 3	
ISGS Site Number	2668A-61	2668A-61	
Parameter			
Laboratory pH (s.u.)	8.38	8.24	<6.25,>9.0
VOCs (ug/kg)			
Acetone	32	25	25000
Methyl ethyl ketone	4.8 J	ND	---
SVOCs (ug/kg)			
Anthracene	ND	6.6 J	1.20E+07
Benzo(a)anthracene	ND	13 J	900 / 1100 / 1800
Benzo(a)pyrene	ND	10 J	90 / 1300 / 2100
Benzo(b)fluoranthene	9.4 J	14 J	900 / 1500 / 2100
Chrysene	ND	12 J	88000
Fluoranthene	9.2 J	21 J	3100000
Phenanthrene	ND	25 J	---
Pyrene	9.4 J	23 J	2300000
Total Metals (mg/kg)			
Arsenic, Total	6.7	5.3 J+	11.3 / 13
Barium, Total	65	45 J	1500
Beryllium, Total	0.71	0.7	22
Cadmium, Total	0.084 J	0.04 J	5.2
Calcium, Total	40000 J	52000 J-	---
Chromium, Total	19	20	21
Cobalt, Total	9.8	9.1	20
Copper, Total	20	22 J	2900
Iron, Total	19000 J+	19000 J+	15000 / 15900
Lead, Total	16 J	15 J	107
Magnesium, Total	22000 J	28000 J-	325000
Manganese, Total	590 J	510 J	630 / 636
Mercury, Total	0.05	0.03	0.89
Nickel, Total	24	24	100
Potassium, Total	2800 J+	3300 J+	---
Sodium, Total	2500	2000	---
Thallium, Total	0.77	0.48 J	2.6
Vanadium, Total	24	23	550
Zinc, Total	48 J-	52 J	5100
TCLP Metals (mg/l)			
Barium, TCLP	0.41 J	0.44 J	2
Copper, TCLP	0.05	0.057	0.65
Iron, TCLP	0.22	0.28	5
Manganese, TCLP	3.7 J+	4	0.15
Zinc, TCLP	0.066 J	0.14	5
SPLP Metals (mg/l)			
Arsenic, SPLP	0.056	0.059	0.05
Barium, SPLP	0.7	0.74	2
Beryllium, SPLP	0.0082	0.0087	0.004
Chromium, SPLP	0.2	0.21	0.1
Cobalt, SPLP	0.075	0.076	1
Copper, SPLP	0.25	0.24	0.65
Iron, SPLP	180 J+	190	5
Lead, SPLP	0.12	0.11	0.0075
Manganese, SPLP	2.4	2.2	0.15
Mercury, SPLP	0.0002	ND	0.002
Nickel, SPLP	0.21	0.22	0.1
Zinc, SPLP	0.5	0.48	5

Summary Table of ISGS Site No. 2668A-61
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 346: US Route 41 (Skokie Highway) from IL Route 21 to West Park Avenue
Gurnee, Park City, Waukegan, and North Chicago, Lake County, Illinois

Notes:

--- - not applicable or value not available.


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

ND - Constituent not detected above the reporting limit.

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: 500-90936-1
Client Project/Site: IDOT - Lake County - WO 001

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

Attn: Mr. S. Babusukumar



Authorized for release by:
1/26/2015 11:24:08 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.

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Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90936-1

Client Sample ID: C61-1(0-3)-011615

Lab Sample ID: 500-90936-20

Date Collected: 01/16/15 12:30

Matrix: Solid

Date Received: 01/16/15 16:00

Percent Solids: 85.7

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	32		5.8	2.5	ug/Kg	☼		01/22/15 12:18	1
Benzene	<5.8		5.8	0.80	ug/Kg	☼		01/22/15 12:18	1
Bromodichloromethane	<5.8		5.8	1.0	ug/Kg	☼		01/22/15 12:18	1
Bromoform	<5.8		5.8	1.3	ug/Kg	☼		01/22/15 12:18	1
Bromomethane	<5.8		5.8	1.8	ug/Kg	☼		01/22/15 12:18	1
Carbon disulfide	<5.8		5.8	0.87	ug/Kg	☼		01/22/15 12:18	1
Carbon tetrachloride	<5.8		5.8	1.1	ug/Kg	☼		01/22/15 12:18	1
Chlorobenzene	<5.8		5.8	0.59	ug/Kg	☼		01/22/15 12:18	1
Chloroethane	<5.8		5.8	1.6	ug/Kg	☼		01/22/15 12:18	1
Chloroform	<5.8		5.8	0.67	ug/Kg	☼		01/22/15 12:18	1
Chloromethane	<5.8		5.8	1.2	ug/Kg	☼		01/22/15 12:18	1
cis-1,2-Dichloroethene	<5.8		5.8	0.83	ug/Kg	☼		01/22/15 12:18	1
cis-1,3-Dichloropropene	<5.8		5.8	0.77	ug/Kg	☼		01/22/15 12:18	1
Dibromochloromethane	<5.8		5.8	1.0	ug/Kg	☼		01/22/15 12:18	1
1,1-Dichloroethane	<5.8		5.8	0.92	ug/Kg	☼		01/22/15 12:18	1
1,2-Dichloroethane	<5.8		5.8	0.87	ug/Kg	☼		01/22/15 12:18	1
1,1-Dichloroethene	<5.8		5.8	0.94	ug/Kg	☼		01/22/15 12:18	1
1,2-Dichloropropane	<5.8		5.8	0.89	ug/Kg	☼		01/22/15 12:18	1
1,3-Dichloropropene, Total	<5.8		5.8	0.77	ug/Kg	☼		01/22/15 12:18	1
Ethylbenzene	<5.8		5.8	1.2	ug/Kg	☼		01/22/15 12:18	1
2-Hexanone	<5.8		5.8	1.7	ug/Kg	☼		01/22/15 12:18	1
Methylene Chloride	<5.8		5.8	1.6	ug/Kg	☼		01/22/15 12:18	1
Methyl Ethyl Ketone	4.8 J		5.8	2.1	ug/Kg	☼		01/22/15 12:18	1
methyl isobutyl ketone	<5.8		5.8	1.5	ug/Kg	☼		01/22/15 12:18	1
Methyl tert-butyl ether	<5.8		5.8	0.96	ug/Kg	☼		01/22/15 12:18	1
Styrene	<5.8		5.8	0.77	ug/Kg	☼		01/22/15 12:18	1
1,1,1,2-Tetrachloroethane	<5.8		5.8	1.2	ug/Kg	☼		01/22/15 12:18	1
Tetrachloroethene	<5.8		5.8	0.89	ug/Kg	☼		01/22/15 12:18	1
Toluene	<5.8		5.8	0.82	ug/Kg	☼		01/22/15 12:18	1
trans-1,2-Dichloroethene	<5.8		5.8	0.80	ug/Kg	☼		01/22/15 12:18	1
trans-1,3-Dichloropropene	<5.8		5.8	1.0	ug/Kg	☼		01/22/15 12:18	1
1,1,1-Trichloroethane	<5.8		5.8	0.87	ug/Kg	☼		01/22/15 12:18	1
1,1,2-Trichloroethane	<5.8		5.8	0.80	ug/Kg	☼		01/22/15 12:18	1
Trichloroethene	<5.8		5.8	0.96	ug/Kg	☼		01/22/15 12:18	1
Vinyl chloride	<5.8		5.8	1.2	ug/Kg	☼		01/22/15 12:18	1
Xylenes, Total	<12		12	0.53	ug/Kg	☼		01/22/15 12:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122		01/22/15 12:18	1
Dibromofluoromethane	105		75 - 120		01/22/15 12:18	1
1,2-Dichloroethane-d4 (Surr)	116		70 - 134		01/22/15 12:18	1
Toluene-d8 (Surr)	94		75 - 122		01/22/15 12:18	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	42	ug/Kg	☼	01/20/15 07:14	01/22/15 00:54	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	01/20/15 07:14	01/22/15 00:54	1
1,3-Dichlorobenzene	<190		190	44	ug/Kg	☼	01/20/15 07:14	01/22/15 00:54	1
1,4-Dichlorobenzene	<190		190	50	ug/Kg	☼	01/20/15 07:14	01/22/15 00:54	1
2,2'-oxybis[1-chloropropane]	<190		190	45	ug/Kg	☼	01/20/15 07:14	01/22/15 00:54	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90936-1

Client Sample ID: C61-1(0-3)-011615

Lab Sample ID: 500-90936-20

Date Collected: 01/16/15 12:30

Matrix: Solid

Date Received: 01/16/15 16:00

Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<390		390	88	ug/Kg	☼	01/20/15 07:14	01/22/15 00:54	1
2,4,6-Trichlorophenol	<390		390	130	ug/Kg	☼	01/20/15 07:14	01/22/15 00:54	1
2,4-Dichlorophenol	<390		390	92	ug/Kg	☼	01/20/15 07:14	01/22/15 00:54	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	01/20/15 07:14	01/22/15 00:54	1
2,4-Dinitrophenol	<780		780	680	ug/Kg	☼	01/20/15 07:14	01/22/15 00:54	1
2,4-Dinitrotoluene	<190		190	62	ug/Kg	☼	01/20/15 07:14	01/22/15 00:54	1
2,6-Dinitrotoluene	<190		190	76	ug/Kg	☼	01/20/15 07:14	01/22/15 00:54	1
2-Chloronaphthalene	<190		190	43	ug/Kg	☼	01/20/15 07:14	01/22/15 00:54	1
2-Chlorophenol	<190		190	66	ug/Kg	☼	01/20/15 07:14	01/22/15 00:54	1
2-Methylnaphthalene	<39		39	7.1	ug/Kg	☼	01/20/15 07:14	01/22/15 00:54	1
2-Methylphenol	<190		190	62	ug/Kg	☼	01/20/15 07:14	01/22/15 00:54	1
2-Nitroaniline	<190		190	52	ug/Kg	☼	01/20/15 07:14	01/22/15 00:54	1
2-Nitrophenol	<390		390	92	ug/Kg	☼	01/20/15 07:14	01/22/15 00:54	1
3 & 4 Methylphenol	<190		190	65	ug/Kg	☼	01/20/15 07:14	01/22/15 00:54	1
3,3'-Dichlorobenzidine	<190		190	54	ug/Kg	☼	01/20/15 07:14	01/22/15 00:54	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	01/20/15 07:14	01/22/15 00:54	1
4,6-Dinitro-2-methylphenol	<390		390	310	ug/Kg	☼	01/20/15 07:14	01/22/15 00:54	1
4-Bromophenyl phenyl ether	<190		190	51	ug/Kg	☼	01/20/15 07:14	01/22/15 00:54	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	01/20/15 07:14	01/22/15 00:54	1
4-Chloroaniline	<780		780	180	ug/Kg	☼	01/20/15 07:14	01/22/15 00:54	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	01/20/15 07:14	01/22/15 00:54	1
4-Nitroaniline	<390		390	160	ug/Kg	☼	01/20/15 07:14	01/22/15 00:54	1
4-Nitrophenol	<780		780	370	ug/Kg	☼	01/20/15 07:14	01/22/15 00:54	1
Acenaphthene	<39		39	7.0	ug/Kg	☼	01/20/15 07:14	01/22/15 00:54	1
Acenaphthylene	<39		39	5.1	ug/Kg	☼	01/20/15 07:14	01/22/15 00:54	1
Anthracene	<39		39	6.5	ug/Kg	☼	01/20/15 07:14	01/22/15 00:54	1
Benzo[a]anthracene	<39		39	5.2	ug/Kg	☼	01/20/15 07:14	01/22/15 00:54	1
Benzo[a]pyrene	<39		39	7.5	ug/Kg	☼	01/20/15 07:14	01/22/15 00:54	1
Benzo[b]fluoranthene	9.4 J		39	8.4	ug/Kg	☼	01/20/15 07:14	01/22/15 00:54	1
Benzo[g,h,i]perylene	<39		39	12	ug/Kg	☼	01/20/15 07:14	01/22/15 00:54	1
Benzo[k]fluoranthene	<39		39	11	ug/Kg	☼	01/20/15 07:14	01/22/15 00:54	1
Bis(2-chloroethoxy)methane	<190		190	40	ug/Kg	☼	01/20/15 07:14	01/22/15 00:54	1
Bis(2-chloroethyl)ether	<190		190	58	ug/Kg	☼	01/20/15 07:14	01/22/15 00:54	1
Bis(2-ethylhexyl) phthalate	<190		190	71	ug/Kg	☼	01/20/15 07:14	01/22/15 00:54	1
Butyl benzyl phthalate	<190		190	74	ug/Kg	☼	01/20/15 07:14	01/22/15 00:54	1
Carbazole	<190		190	100	ug/Kg	☼	01/20/15 07:14	01/22/15 00:54	1
Chrysene	<39		39	11	ug/Kg	☼	01/20/15 07:14	01/22/15 00:54	1
Dibenz(a,h)anthracene	<39		39	7.5	ug/Kg	☼	01/20/15 07:14	01/22/15 00:54	1
Dibenzofuran	<190		190	45	ug/Kg	☼	01/20/15 07:14	01/22/15 00:54	1
Diethyl phthalate	<190		190	66	ug/Kg	☼	01/20/15 07:14	01/22/15 00:54	1
Dimethyl phthalate	<190		190	51	ug/Kg	☼	01/20/15 07:14	01/22/15 00:54	1
Di-n-butyl phthalate	<190		190	59	ug/Kg	☼	01/20/15 07:14	01/22/15 00:54	1
Di-n-octyl phthalate	<190		190	63	ug/Kg	☼	01/20/15 07:14	01/22/15 00:54	1
Fluoranthene	9.2 J		39	7.2	ug/Kg	☼	01/20/15 07:14	01/22/15 00:54	1
Fluorene	<39		39	5.5	ug/Kg	☼	01/20/15 07:14	01/22/15 00:54	1
Hexachlorobenzene	<78		78	9.0	ug/Kg	☼	01/20/15 07:14	01/22/15 00:54	1
Hexachlorobutadiene	<190		190	61	ug/Kg	☼	01/20/15 07:14	01/22/15 00:54	1
Hexachlorocyclopentadiene	<780		780	220	ug/Kg	☼	01/20/15 07:14	01/22/15 00:54	1
Hexachloroethane	<190		190	59	ug/Kg	☼	01/20/15 07:14	01/22/15 00:54	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90936-1

Client Sample ID: C61-1(0-3)-011615

Lab Sample ID: 500-90936-20

Date Collected: 01/16/15 12:30

Matrix: Solid

Date Received: 01/16/15 16:00

Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<39		39	10	ug/Kg	*	01/20/15 07:14	01/22/15 00:54	1
Isophorone	<190		190	44	ug/Kg	*	01/20/15 07:14	01/22/15 00:54	1
Naphthalene	<39		39	6.0	ug/Kg	*	01/20/15 07:14	01/22/15 00:54	1
Nitrobenzene	<39		39	9.7	ug/Kg	*	01/20/15 07:14	01/22/15 00:54	1
N-Nitrosodi-n-propylamine	<190		190	47	ug/Kg	*	01/20/15 07:14	01/22/15 00:54	1
N-Nitrosodiphenylamine	<190		190	46	ug/Kg	*	01/20/15 07:14	01/22/15 00:54	1
Pentachlorophenol	<780		780	620	ug/Kg	*	01/20/15 07:14	01/22/15 00:54	1
Phenanthrene	<39		39	5.4	ug/Kg	*	01/20/15 07:14	01/22/15 00:54	1
Phenol	<190		190	86	ug/Kg	*	01/20/15 07:14	01/22/15 00:54	1
Pyrene	9.4	J	39	7.7	ug/Kg	*	01/20/15 07:14	01/22/15 00:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	41		35 - 137	01/20/15 07:14	01/22/15 00:54	1
2-Fluorobiphenyl	40		25 - 119	01/20/15 07:14	01/22/15 00:54	1
2-Fluorophenol	39		25 - 110	01/20/15 07:14	01/22/15 00:54	1
Nitrobenzene-d5	37		25 - 115	01/20/15 07:14	01/22/15 00:54	1
Phenol-d5	42		31 - 110	01/20/15 07:14	01/22/15 00:54	1
Terphenyl-d14	60		36 - 134	01/20/15 07:14	01/22/15 00:54	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		01/21/15 08:45	01/22/15 03:18	1
Barium	0.41	J	0.50	0.050	mg/L		01/21/15 08:45	01/22/15 03:18	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/21/15 08:45	01/22/15 03:18	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/21/15 08:45	01/22/15 03:18	1
Chromium	<0.025		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 03:18	1
Cobalt	<0.025		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 03:18	1
Copper	0.050		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 03:18	1
Iron	0.22		0.20	0.20	mg/L		01/21/15 08:45	01/22/15 03:18	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/21/15 08:45	01/22/15 03:18	1
Manganese	3.7		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 03:18	1
Nickel	<0.025		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 03:18	1
Selenium	<0.050		0.050	0.020	mg/L		01/21/15 08:45	01/22/15 03:18	1
Silver	<0.025		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 03:18	1
Zinc	0.066	J	0.10	0.020	mg/L		01/21/15 08:45	01/22/15 03:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.056		0.050	0.010	mg/L		01/21/15 09:30	01/22/15 17:06	1
Barium	0.70		0.50	0.050	mg/L		01/21/15 09:30	01/22/15 17:06	1
Beryllium	0.0082		0.0040	0.0040	mg/L		01/21/15 09:30	01/22/15 17:06	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/21/15 09:30	01/22/15 17:06	1
Chromium	0.20		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 17:06	1
Cobalt	0.075		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 17:06	1
Copper	0.25		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 17:06	1
Iron	180		0.20	0.20	mg/L		01/21/15 09:30	01/22/15 17:06	1
Lead	0.12		0.0075	0.0075	mg/L		01/21/15 09:30	01/22/15 17:06	1
Manganese	2.4		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 17:06	1
Nickel	0.21		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 17:06	1
Selenium	<0.050		0.050	0.020	mg/L		01/21/15 09:30	01/22/15 17:06	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90936-1

Client Sample ID: C61-1(0-3)-011615

Lab Sample ID: 500-90936-20

Date Collected: 01/16/15 12:30

Matrix: Solid

Date Received: 01/16/15 16:00

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		01/21/15 09:30	01/22/15 17:06	1
Zinc	0.50		0.10	0.020	mg/L		01/21/15 09:30	01/22/15 17:06	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.56	J B	1.1	0.22	mg/Kg	☼	01/19/15 16:20	01/21/15 05:47	1
Arsenic	6.7		0.54	0.25	mg/Kg	☼	01/19/15 16:20	01/21/15 05:47	1
Barium	65		0.54	0.099	mg/Kg	☼	01/19/15 16:20	01/21/15 05:47	1
Beryllium	0.71		0.22	0.047	mg/Kg	☼	01/19/15 16:20	01/21/15 05:47	1
Cadmium	0.084	J	0.11	0.031	mg/Kg	☼	01/19/15 16:20	01/21/15 20:48	1
Calcium	40000		11	3.5	mg/Kg	☼	01/19/15 16:20	01/21/15 05:47	1
Chromium	19		0.54	0.093	mg/Kg	☼	01/19/15 16:20	01/21/15 05:47	1
Cobalt	9.8		0.27	0.061	mg/Kg	☼	01/19/15 16:20	01/21/15 05:47	1
Copper	20		0.54	0.12	mg/Kg	☼	01/19/15 16:20	01/21/15 05:47	1
Iron	19000		11	4.2	mg/Kg	☼	01/19/15 16:20	01/21/15 05:47	1
Lead	16		0.27	0.13	mg/Kg	☼	01/19/15 16:20	01/21/15 05:47	1
Magnesium	22000		5.4	2.2	mg/Kg	☼	01/19/15 16:20	01/21/15 05:47	1
Manganese	590		0.54	0.11	mg/Kg	☼	01/19/15 16:20	01/21/15 05:47	1
Nickel	24		0.54	0.15	mg/Kg	☼	01/19/15 16:20	01/21/15 05:47	1
Potassium	2800		27	4.4	mg/Kg	☼	01/19/15 16:20	01/21/15 05:47	1
Selenium	<0.54		0.54	0.27	mg/Kg	☼	01/19/15 16:20	01/21/15 05:47	1
Silver	<0.27		0.27	0.063	mg/Kg	☼	01/19/15 16:20	01/21/15 05:47	1
Sodium	2500		54	7.1	mg/Kg	☼	01/19/15 16:20	01/21/15 05:47	1
Thallium	0.77		0.54	0.27	mg/Kg	☼	01/19/15 16:20	01/21/15 05:47	1
Vanadium	24		0.27	0.079	mg/Kg	☼	01/19/15 16:20	01/21/15 05:47	1
Zinc	48	B	1.1	0.34	mg/Kg	☼	01/19/15 16:20	01/21/15 05:47	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		01/21/15 11:30	01/22/15 10:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.26		0.20	0.20	ug/L		01/21/15 11:30	01/22/15 11:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	50		17	5.8	ug/Kg	☼	01/19/15 14:30	01/20/15 10:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.38		0.200	0.200	SU			01/21/15 13:32	1

Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90936-1

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.
F1	MS and/or MSD Recovery exceeds the control limits

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD Recovery exceeds the control limits
F2	MS/MSD RPD exceeds control limits

Glossary

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

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90936-1

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-15

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

Analysis Method	Prep Method	Matrix	Analyte
7470A	7470A	Solid	Mercury
8260B		Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids



Report To (optional)
Contact: S Babusukumar
Company: Weston Solutions
Address: 300 Plaza Circle Sk 202
Address: Mundelein, IL 60060
Phone: (224) 864-7200
Fax:
E-Mail:

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

Chain of Custody Record

Lab Job #: 500-90936
Chain of Custody Number:
Page 1 of 3
Temperature °C of Cooler: (3.9) (4.2)

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 #		Containers		Matrix		Comments			
Lab ID	MS/MSD	Sample ID	Date	Time	# of	Matrix					
Weston				7	7	7	7	7			
IDOT 001											
Project Location/State		Lab Project #									
IL											
Sampler		Lab PM									
M. Strou		D. WRIGHT									
1		ROW-8 (0-3)-011515	1/15/15	1535	2	S	X	X	X	X	
2		ROW-7 (0-3)-011515		1540							
3		ROW-6 (0-3)-011515		1550							
4		ROW-5 (0-3)-011515		1600							
5		ROW-4 (0-3)-011515		1610							
6		A43-1 (0-3)-011515		1645							
7		ROW-15 (0-3)-011615	1/16/15	0830							
8		ROW-16 (0-3)-011615		0840							
9		ROW-16 (0-3)-011615		0840							
10		ROW-18 (0-3)-011615		0850							

Turnaround Time Required (Business Days)

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

Standard 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>M. Strou</u>	Company Weston	Date 1/16/15	Time 1420	Received By <u>[Signature]</u>	Company TA	Date 1/16/15	Time 1420
Relinquished By <u>[Signature]</u>	Company TA	Date 1/16/15	Time 1600	Received By <u>[Signature]</u>	Company TA	Date 1/16/15	Time 1600
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: S. Babusulekumar
Company: Weston Solutions
Address: 300 Plaza Circle Ste 202
Address: Mundelein, IL 60060
Phone: (224) 864-7200
Fax:
E-Mail:

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

Chain of Custody Record

Lab Job #: 500-90936

Chain of Custody Number: _____

Page 2 of 3

Temperature °C of Cooler: _____

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				
Sampler		Lab PM		# of Containers		Matrix		Comments		
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	Matrix	Matrix	Matrix	Matrix
11		ROW-19(0-3)-011615	1/16/15	0905	2	S	X	X	X	X
12		ROW-21(0-3)-011615		0935						
13		ROW-20(0-3)-011615		0950						
14		ROW-17(0-3)-011615		1100						
15		ROW-13(0-3)-011615		1110						
16		LT-2(0-3)-011615		1130						
17		LT-1(0-3)-011615		1150						
18		LL-2(0-3)-011615		1210						
19		LL-1(0-3)-011615		1225						
20		CL-1(0-3)-011615		1230						

Turnaround Time Required (Business Days)

___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days Standard 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>M. Straw</u> Company <u>Weston</u> Date <u>1/16/15</u> Time <u>1420</u>	Received By <u>[Signature]</u> Company <u>TA</u> Date <u>1/16/15</u> Time <u>1420</u>
Relinquished By <u>[Signature]</u> Company <u>TA</u> Date <u>1/16/15</u> Time <u>1600</u>	Received By <u>[Signature]</u> Company <u>TA</u> Date <u>1/16/15</u> Time <u>1600</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: 500-90937-1
Client Project/Site: IDOT - Lake County - WO 001

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

Attn: Mr. S. Babusukumar



Authorized for release by:
1/26/2015 1:40:42 PM

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

LINKS

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results through
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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 - Lake County - WO 001

TestAmerica Job ID: 500-90937-1

Client Sample ID: C61-1(0-3)-011615D

Lab Sample ID: 500-90937-1

Date Collected: 01/16/15 12:30

Matrix: Solid

Date Received: 01/16/15 16:00

Percent Solids: 84.1

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25		5.9	2.6	ug/Kg	☼		01/19/15 19:54	1
Benzene	<5.9		5.9	0.81	ug/Kg	☼		01/19/15 19:54	1
Bromodichloromethane	<5.9		5.9	1.0	ug/Kg	☼		01/19/15 19:54	1
Bromoform	<5.9		5.9	1.4	ug/Kg	☼		01/19/15 19:54	1
Bromomethane	<5.9		5.9	1.8	ug/Kg	☼		01/19/15 19:54	1
Carbon disulfide	<5.9		5.9	0.89	ug/Kg	☼		01/19/15 19:54	1
Carbon tetrachloride	<5.9		5.9	1.1	ug/Kg	☼		01/19/15 19:54	1
Chlorobenzene	<5.9		5.9	0.60	ug/Kg	☼		01/19/15 19:54	1
Chloroethane	<5.9		5.9	1.6	ug/Kg	☼		01/19/15 19:54	1
Chloroform	<5.9		5.9	0.68	ug/Kg	☼		01/19/15 19:54	1
Chloromethane	<5.9		5.9	1.2	ug/Kg	☼		01/19/15 19:54	1
cis-1,2-Dichloroethene	<5.9		5.9	0.84	ug/Kg	☼		01/19/15 19:54	1
cis-1,3-Dichloropropene	<5.9		5.9	0.78	ug/Kg	☼		01/19/15 19:54	1
Dibromochloromethane	<5.9		5.9	1.0	ug/Kg	☼		01/19/15 19:54	1
1,1-Dichloroethane	<5.9		5.9	0.94	ug/Kg	☼		01/19/15 19:54	1
1,2-Dichloroethane	<5.9		5.9	0.88	ug/Kg	☼		01/19/15 19:54	1
1,1-Dichloroethene	<5.9		5.9	0.96	ug/Kg	☼		01/19/15 19:54	1
1,2-Dichloropropane	<5.9		5.9	0.90	ug/Kg	☼		01/19/15 19:54	1
1,3-Dichloropropene, Total	<5.9		5.9	0.78	ug/Kg	☼		01/19/15 19:54	1
Ethylbenzene	<5.9		5.9	1.2	ug/Kg	☼		01/19/15 19:54	1
2-Hexanone	<5.9		5.9	1.7	ug/Kg	☼		01/19/15 19:54	1
Methylene Chloride	<5.9		5.9	1.6	ug/Kg	☼		01/19/15 19:54	1
Methyl Ethyl Ketone	<5.9		5.9	2.2	ug/Kg	☼		01/19/15 19:54	1
methyl isobutyl ketone	<5.9		5.9	1.6	ug/Kg	☼		01/19/15 19:54	1
Methyl tert-butyl ether	<5.9		5.9	0.98	ug/Kg	☼		01/19/15 19:54	1
Styrene	<5.9		5.9	0.78	ug/Kg	☼		01/19/15 19:54	1
1,1,2,2-Tetrachloroethane	<5.9		5.9	1.2	ug/Kg	☼		01/19/15 19:54	1
Tetrachloroethene	<5.9		5.9	0.91	ug/Kg	☼		01/19/15 19:54	1
Toluene	<5.9		5.9	0.83	ug/Kg	☼		01/19/15 19:54	1
trans-1,2-Dichloroethene	<5.9		5.9	0.82	ug/Kg	☼		01/19/15 19:54	1
trans-1,3-Dichloropropene	<5.9		5.9	1.1	ug/Kg	☼		01/19/15 19:54	1
1,1,1-Trichloroethane	<5.9		5.9	0.89	ug/Kg	☼		01/19/15 19:54	1
1,1,2-Trichloroethane	<5.9		5.9	0.81	ug/Kg	☼		01/19/15 19:54	1
Trichloroethene	<5.9		5.9	0.98	ug/Kg	☼		01/19/15 19:54	1
Vinyl chloride	<5.9		5.9	1.2	ug/Kg	☼		01/19/15 19:54	1
Xylenes, Total	<12		12	0.54	ug/Kg	☼		01/19/15 19:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 122		01/19/15 19:54	1
Dibromofluoromethane	102		75 - 120		01/19/15 19:54	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134		01/19/15 19:54	1
Toluene-d8 (Surr)	96		75 - 122		01/19/15 19:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	42	ug/Kg	☼	01/19/15 07:34	01/22/15 17:12	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	01/19/15 07:34	01/22/15 17:12	1
1,3-Dichlorobenzene	<190		190	44	ug/Kg	☼	01/19/15 07:34	01/22/15 17:12	1
1,4-Dichlorobenzene	<190		190	50	ug/Kg	☼	01/19/15 07:34	01/22/15 17:12	1
2,2'-oxybis[1-chloropropane]	<190		190	45	ug/Kg	☼	01/19/15 07:34	01/22/15 17:12	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90937-1

Client Sample ID: C61-1(0-3)-011615D

Lab Sample ID: 500-90937-1

Date Collected: 01/16/15 12:30

Matrix: Solid

Date Received: 01/16/15 16:00

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	88	ug/Kg	☼	01/19/15 07:34	01/22/15 17:12	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	01/19/15 07:34	01/22/15 17:12	1
2,4-Dichlorophenol	<380		380	92	ug/Kg	☼	01/19/15 07:34	01/22/15 17:12	1
2,4-Dimethylphenol	<380		380	150	ug/Kg	☼	01/19/15 07:34	01/22/15 17:12	1
2,4-Dinitrophenol	<780	*	780	680	ug/Kg	☼	01/19/15 07:34	01/22/15 17:12	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	01/19/15 07:34	01/22/15 17:12	1
2,6-Dinitrotoluene	<190		190	76	ug/Kg	☼	01/19/15 07:34	01/22/15 17:12	1
2-Chloronaphthalene	<190		190	43	ug/Kg	☼	01/19/15 07:34	01/22/15 17:12	1
2-Chlorophenol	<190		190	66	ug/Kg	☼	01/19/15 07:34	01/22/15 17:12	1
2-Methylnaphthalene	<38		38	7.1	ug/Kg	☼	01/19/15 07:34	01/22/15 17:12	1
2-Methylphenol	<190		190	62	ug/Kg	☼	01/19/15 07:34	01/22/15 17:12	1
2-Nitroaniline	<190		190	52	ug/Kg	☼	01/19/15 07:34	01/22/15 17:12	1
2-Nitrophenol	<380		380	91	ug/Kg	☼	01/19/15 07:34	01/22/15 17:12	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	☼	01/19/15 07:34	01/22/15 17:12	1
3,3'-Dichlorobenzidine	<190		190	54	ug/Kg	☼	01/19/15 07:34	01/22/15 17:12	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	01/19/15 07:34	01/22/15 17:12	1
4,6-Dinitro-2-methylphenol	<380	*	380	310	ug/Kg	☼	01/19/15 07:34	01/22/15 17:12	1
4-Bromophenyl phenyl ether	<190		190	51	ug/Kg	☼	01/19/15 07:34	01/22/15 17:12	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	01/19/15 07:34	01/22/15 17:12	1
4-Chloroaniline	<780		780	180	ug/Kg	☼	01/19/15 07:34	01/22/15 17:12	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	01/19/15 07:34	01/22/15 17:12	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	01/19/15 07:34	01/22/15 17:12	1
4-Nitrophenol	<780		780	370	ug/Kg	☼	01/19/15 07:34	01/22/15 17:12	1
Acenaphthene	<38		38	6.9	ug/Kg	☼	01/19/15 07:34	01/22/15 17:12	1
Acenaphthylene	<38		38	5.1	ug/Kg	☼	01/19/15 07:34	01/22/15 17:12	1
Anthracene	6.6	J	38	6.5	ug/Kg	☼	01/19/15 07:34	01/22/15 17:12	1
Benzo[a]anthracene	13	J	38	5.2	ug/Kg	☼	01/19/15 07:34	01/22/15 17:12	1
Benzo[a]pyrene	10	J	38	7.5	ug/Kg	☼	01/19/15 07:34	01/22/15 17:12	1
Benzo[b]fluoranthene	14	J	38	8.3	ug/Kg	☼	01/19/15 07:34	01/22/15 17:12	1
Benzo[g,h,i]perylene	<38		38	12	ug/Kg	☼	01/19/15 07:34	01/22/15 17:12	1
Benzo[k]fluoranthene	<38		38	11	ug/Kg	☼	01/19/15 07:34	01/22/15 17:12	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	01/19/15 07:34	01/22/15 17:12	1
Bis(2-chloroethyl)ether	<190		190	58	ug/Kg	☼	01/19/15 07:34	01/22/15 17:12	1
Bis(2-ethylhexyl) phthalate	<190		190	71	ug/Kg	☼	01/19/15 07:34	01/22/15 17:12	1
Butyl benzyl phthalate	<190		190	74	ug/Kg	☼	01/19/15 07:34	01/22/15 17:12	1
Carbazole	<190		190	100	ug/Kg	☼	01/19/15 07:34	01/22/15 17:12	1
Chrysene	12	J	38	11	ug/Kg	☼	01/19/15 07:34	01/22/15 17:12	1
Dibenz(a,h)anthracene	<38		38	7.5	ug/Kg	☼	01/19/15 07:34	01/22/15 17:12	1
Dibenzofuran	<190		190	45	ug/Kg	☼	01/19/15 07:34	01/22/15 17:12	1
Diethyl phthalate	<190		190	65	ug/Kg	☼	01/19/15 07:34	01/22/15 17:12	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	01/19/15 07:34	01/22/15 17:12	1
Di-n-butyl phthalate	<190		190	59	ug/Kg	☼	01/19/15 07:34	01/22/15 17:12	1
Di-n-octyl phthalate	<190		190	63	ug/Kg	☼	01/19/15 07:34	01/22/15 17:12	1
Fluoranthene	21	J	38	7.2	ug/Kg	☼	01/19/15 07:34	01/22/15 17:12	1
Fluorene	<38		38	5.4	ug/Kg	☼	01/19/15 07:34	01/22/15 17:12	1
Hexachlorobenzene	<78		78	9.0	ug/Kg	☼	01/19/15 07:34	01/22/15 17:12	1
Hexachlorobutadiene	<190		190	61	ug/Kg	☼	01/19/15 07:34	01/22/15 17:12	1
Hexachlorocyclopentadiene	<780		780	220	ug/Kg	☼	01/19/15 07:34	01/22/15 17:12	1
Hexachloroethane	<190		190	59	ug/Kg	☼	01/19/15 07:34	01/22/15 17:12	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90937-1

Client Sample ID: C61-1(0-3)-011615D

Lab Sample ID: 500-90937-1

Date Collected: 01/16/15 12:30

Matrix: Solid

Date Received: 01/16/15 16:00

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	<38		38	10	ug/Kg	☼	01/19/15 07:34	01/22/15 17:12	1
Isophorone	<190		190	43	ug/Kg	☼	01/19/15 07:34	01/22/15 17:12	1
Naphthalene	<38		38	5.9	ug/Kg	☼	01/19/15 07:34	01/22/15 17:12	1
Nitrobenzene	<38		38	9.6	ug/Kg	☼	01/19/15 07:34	01/22/15 17:12	1
N-Nitrosodi-n-propylamine	<190		190	47	ug/Kg	☼	01/19/15 07:34	01/22/15 17:12	1
N-Nitrosodiphenylamine	<190		190	46	ug/Kg	☼	01/19/15 07:34	01/22/15 17:12	1
Pentachlorophenol	<780		780	620	ug/Kg	☼	01/19/15 07:34	01/22/15 17:12	1
Phenanthrene	25	J	38	5.4	ug/Kg	☼	01/19/15 07:34	01/22/15 17:12	1
Phenol	<190		190	86	ug/Kg	☼	01/19/15 07:34	01/22/15 17:12	1
Pyrene	23	J	38	7.7	ug/Kg	☼	01/19/15 07:34	01/22/15 17:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	36		35 - 137				01/19/15 07:34	01/22/15 17:12	1
2-Fluorobiphenyl	44		25 - 119				01/19/15 07:34	01/22/15 17:12	1
2-Fluorophenol	44		25 - 110				01/19/15 07:34	01/22/15 17:12	1
Nitrobenzene-d5	37		25 - 115				01/19/15 07:34	01/22/15 17:12	1
Phenol-d5	45		31 - 110				01/19/15 07:34	01/22/15 17:12	1
Terphenyl-d14	53		36 - 134				01/19/15 07:34	01/22/15 17:12	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		01/20/15 08:00	01/20/15 18:16	1
Barium	0.44	J	0.50	0.050	mg/L		01/20/15 08:00	01/20/15 18:16	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/20/15 08:00	01/20/15 18:16	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/20/15 08:00	01/20/15 18:16	1
Chromium	<0.025		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 18:16	1
Cobalt	<0.025		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 18:16	1
Copper	0.057		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 18:16	1
Iron	0.28		0.20	0.20	mg/L		01/20/15 08:00	01/20/15 18:16	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/20/15 08:00	01/20/15 18:16	1
Manganese	4.0		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 18:16	1
Nickel	<0.025		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 18:16	1
Selenium	<0.050		0.050	0.020	mg/L		01/20/15 08:00	01/20/15 18:16	1
Silver	<0.025		0.025	0.010	mg/L		01/20/15 08:00	01/20/15 18:16	1
Zinc	0.14		0.10	0.020	mg/L		01/20/15 08:00	01/20/15 18:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.059		0.050	0.010	mg/L		01/20/15 14:30	01/22/15 03:42	1
Barium	0.74		0.50	0.050	mg/L		01/20/15 14:30	01/22/15 03:42	1
Beryllium	0.0087		0.0040	0.0040	mg/L		01/20/15 14:30	01/22/15 03:42	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/20/15 14:30	01/22/15 03:42	1
Chromium	0.21		0.025	0.010	mg/L		01/20/15 14:30	01/22/15 03:42	1
Cobalt	0.076		0.025	0.010	mg/L		01/20/15 14:30	01/22/15 03:42	1
Copper	0.24		0.025	0.010	mg/L		01/20/15 14:30	01/22/15 03:42	1
Iron	190		0.20	0.20	mg/L		01/20/15 14:30	01/22/15 03:42	1
Lead	0.11		0.0075	0.0075	mg/L		01/20/15 14:30	01/22/15 03:42	1
Manganese	2.2		0.025	0.010	mg/L		01/20/15 14:30	01/22/15 03:42	1
Nickel	0.22		0.025	0.010	mg/L		01/20/15 14:30	01/22/15 03:42	1
Selenium	<0.050		0.050	0.020	mg/L		01/20/15 14:30	01/22/15 03:42	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90937-1

Client Sample ID: C61-1(0-3)-011615D

Lab Sample ID: 500-90937-1

Date Collected: 01/16/15 12:30

Matrix: Solid

Date Received: 01/16/15 16:00

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		01/20/15 14:30	01/22/15 03:42	1
Zinc	0.48		0.10	0.020	mg/L		01/20/15 14:30	01/22/15 03:42	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.54	J B	1.1	0.23	mg/Kg	☼	01/19/15 16:20	01/20/15 23:21	1
Arsenic	5.3		0.56	0.26	mg/Kg	☼	01/19/15 16:20	01/20/15 23:21	1
Barium	45		0.56	0.10	mg/Kg	☼	01/19/15 16:20	01/20/15 23:21	1
Beryllium	0.70		0.23	0.049	mg/Kg	☼	01/19/15 16:20	01/20/15 23:21	1
Cadmium	0.040	J	0.11	0.033	mg/Kg	☼	01/19/15 16:20	01/21/15 15:39	1
Calcium	52000		11	3.6	mg/Kg	☼	01/19/15 16:20	01/20/15 23:21	1
Chromium	20		0.56	0.097	mg/Kg	☼	01/19/15 16:20	01/20/15 23:21	1
Cobalt	9.1		0.28	0.064	mg/Kg	☼	01/19/15 16:20	01/20/15 23:21	1
Copper	22		0.56	0.12	mg/Kg	☼	01/19/15 16:20	01/20/15 23:21	1
Iron	19000		11	4.4	mg/Kg	☼	01/19/15 16:20	01/20/15 23:21	1
Lead	15		0.28	0.14	mg/Kg	☼	01/19/15 16:20	01/20/15 23:21	1
Magnesium	28000		5.6	2.3	mg/Kg	☼	01/19/15 16:20	01/20/15 23:21	1
Manganese	510		0.56	0.11	mg/Kg	☼	01/19/15 16:20	01/20/15 23:21	1
Nickel	24		0.56	0.15	mg/Kg	☼	01/19/15 16:20	01/20/15 23:21	1
Potassium	3300		28	4.6	mg/Kg	☼	01/19/15 16:20	01/20/15 23:21	1
Selenium	<0.56		0.56	0.28	mg/Kg	☼	01/19/15 16:20	01/20/15 23:21	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	01/19/15 16:20	01/20/15 23:21	1
Sodium	2000		56	7.5	mg/Kg	☼	01/19/15 16:20	01/21/15 15:39	1
Thallium	0.48	J	0.56	0.28	mg/Kg	☼	01/19/15 16:20	01/20/15 23:21	1
Vanadium	23		0.28	0.082	mg/Kg	☼	01/19/15 16:20	01/20/15 23:21	1
Zinc	52	B	1.1	0.36	mg/Kg	☼	01/19/15 16:20	01/20/15 23:21	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		01/21/15 11:30	01/22/15 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		01/21/15 11:30	01/22/15 11:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	30		18	6.2	ug/Kg	☼	01/19/15 14:30	01/20/15 08:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.24		0.200	0.200	SU			01/21/15 13:40	1

Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90937-1

Qualifiers

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F3	Duplicate RPD exceeds the control limit
F1	MS and/or MSD Recovery exceeds the control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F2	MS/MSD RPD exceeds control limits

Glossary

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

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90937-1

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-15

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

Analysis Method	Prep Method	Matrix	Analyte
7470A	7470A	Solid	Mercury
8260B		Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids



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

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

Chain of Custody Record

Lab Job #: 500-90937

Chain of Custody Number:

Page 3 of 3

Temperature °C of Cooler: 4.2

Client		Client Project #		Preservative		Parameter		Preservative Key	
<u>Weston</u>				<u>7</u>	<u>7</u>	<u>7</u>	<u>7</u>	<u>7</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 001</u>				<u>2</u>	<u>S</u>	<u>VOCs</u>	<u>SVOCs</u>		
Project Location/State		Sampler		Date		Time		Matrix	
<u>IL</u>		<u>M. Straw</u>		<u>1/16/15</u>		<u>1230</u>		<u>Total Metals</u>	
Lab ID		MS/MSD		Date		Time		Matrix	
<u>C61-1(0-3)-011615D</u>				<u>1/16/15</u>		<u>1230</u>		<u>TCUP/SPLP Metals</u>	
<u>V60-1(0-3)-011615</u>				<u>1245</u>				<u>pH</u>	
<u>MC-1(0-3)-011615</u>				<u>1253</u>					
<u>ROW-12(0-3)-011615</u>				<u>1310</u>					
<u>ROW-11(0-3)-011615</u>				<u>1335</u>					
<u>ROW-10(0-3)-011615</u>				<u>1355</u>					
<u>ROW-9(0-3)-011615</u>				<u>1345</u>					
								<u>M. Straw</u> 1/16/15	

Turnaround Time Required (Business Days)

1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Standard 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>M. Straw</u>	Company: <u>Weston</u>	Date: <u>1/16/15</u>	Time: <u>1420</u>	Received By: <u>[Signature]</u>	Company: <u>TA</u>	Date: <u>1/16/15</u>	Time: <u>1420</u>
Relinquished By: <u>[Signature]</u>	Company: <u>TA</u>	Date: <u>1/16/15</u>	Time: <u>1600</u>	Received By: <u>[Signature]</u>	Company: <u>TA</u>	Date: <u>1/16/15</u>	Time: <u>1600</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 WL - Wipe
MS - Miscellaneous DW - Drinking Water
OL - Oil O - Other
A - Air

Client Comments

Lab Comments:



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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 346: US 41 from IL 21 to West Park Ave Office Phone Number, if available: _____

Physical Site Location (address, including number and street):
496 Old Skokie Road

City: Park City State: IL Zip Code: _____

County: Lake Township: _____

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

Latitude: 42.353041341 Longitude: -87.893462779
(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: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

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

Project Name: FAP 346: US 41 from IL 21 to West Park Ave

Latitude: 42.353041341 Longitude: -87.893462779

Uncontaminated Site Certification

III. Basis for Certification and Attachments

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

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

LOCATIONS LL-1 AND LL-2 WERE SAMPLED ADJACENT TO ISGS SITE No. 2668A-62. SEE FIGURE 3-6 AND TABLE 4-1 OF THE REVISED 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]:

TEST AMERICA ANALYTICAL REPORT - JOB ID: 500-90936-1

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

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

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

Company Name: Illinois Department of Transportation

Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Kurt T. Fischer P.G.

Printed Name:



2/9/15

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Date:



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

Summary Table of ISGS Site No. 2668A-62
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 346: US Route 41 (Skokie Highway) from IL Route 21 to West Park Avenue
Gurnee, Park City, Waukegan, and North Chicago, Lake County, Illinois

Field Sample ID	LL-1(0-3)-011615	LL-2(0-3)-011615	Soil Reference Concentrations ^A
Sample Date	1/16/2015	1/16/2015	
Location ID	LL-1	LL-2	
Depth	0 - 3	0 - 3	
ISGS Site Number	2668A-62	2668A-62	
Parameter			
Laboratory pH (s.u.)	8.34	8.01	<6.25,>9.0
VOCs (ug/kg)			
Acetone	5.8	20	25000
Methyl ethyl ketone	ND	3 J	---
SVOCs (ug/kg)			
Total Metals (mg/kg)			
Arsenic, Total	5.7	5.3	11.3 / 13
Barium, Total	47	46	1500
Beryllium, Total	0.66	0.64	22
Cadmium, Total	0.044 J	0.038 J	5.2
Calcium, Total	53000 J	83000 J	---
Chromium, Total	19	17	21
Cobalt, Total	8.3	9.5	20
Copper, Total	20	25	2900
Iron, Total	17000 J+	16000 J+	15000 / 15900
Lead, Total	13 J	27 J	107
Magnesium, Total	28000 J	33000 J	325000
Manganese, Total	400 J	480 J	630 / 636
Mercury, Total	0.018	0.018	0.89
Nickel, Total	23	21	100
Potassium, Total	3700 J+	3200 J+	---
Sodium, Total	1400	1100	---
Thallium, Total	0.75	0.54 J	2.6
Vanadium, Total	22	21	550
Zinc, Total	43 J-	84 J-	5100
TCLP Metals (mg/l)			
Barium, TCLP	0.4 J	0.4 J	2
Copper, TCLP	0.024 J	0.037	0.65
Manganese, TCLP	1.1 J+	2.9 J+	0.15
Zinc, TCLP	0.046 J	0.04 J	5
SPLP Metals (mg/l)			
Arsenic, SPLP	ND	0.031 J	0.05
Barium, SPLP	0.15 J	0.29 J	2
Beryllium, SPLP	ND	0.0042	0.004
Chromium, SPLP	0.042	0.1	0.1
Cobalt, SPLP	ND	0.033	1
Copper, SPLP	0.098	0.12	0.65
Iron, SPLP	31 J+	85 J+	5
Lead, SPLP	0.023	0.058	0.0075
Manganese, SPLP	0.26	0.99	0.15
Nickel, SPLP	0.038	0.1	0.1
Zinc, SPLP	0.13	0.25	5

Notes:

--- - not applicable or value not available.

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

ND - Constituent not detected above the reporting limit.

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: 500-90936-1
Client Project/Site: IDOT - Lake County - WO 001

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

Attn: Mr. S. Babusukumar



Authorized for release by:
1/26/2015 11:24:08 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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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 - Lake County - WO 001

TestAmerica Job ID: 500-90936-1

Client Sample ID: LL-2(0-3)-011615

Lab Sample ID: 500-90936-18

Date Collected: 01/16/15 12:10

Matrix: Solid

Date Received: 01/16/15 16:00

Percent Solids: 84.5

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	20		5.9	2.6	ug/Kg	☼		01/22/15 10:42	1
Benzene	<5.9		5.9	0.81	ug/Kg	☼		01/22/15 10:42	1
Bromodichloromethane	<5.9		5.9	1.0	ug/Kg	☼		01/22/15 10:42	1
Bromoform	<5.9		5.9	1.4	ug/Kg	☼		01/22/15 10:42	1
Bromomethane	<5.9		5.9	1.8	ug/Kg	☼		01/22/15 10:42	1
Carbon disulfide	<5.9		5.9	0.88	ug/Kg	☼		01/22/15 10:42	1
Carbon tetrachloride	<5.9		5.9	1.1	ug/Kg	☼		01/22/15 10:42	1
Chlorobenzene	<5.9		5.9	0.60	ug/Kg	☼		01/22/15 10:42	1
Chloroethane	<5.9		5.9	1.6	ug/Kg	☼		01/22/15 10:42	1
Chloroform	<5.9		5.9	0.68	ug/Kg	☼		01/22/15 10:42	1
Chloromethane	<5.9		5.9	1.2	ug/Kg	☼		01/22/15 10:42	1
cis-1,2-Dichloroethene	<5.9		5.9	0.84	ug/Kg	☼		01/22/15 10:42	1
cis-1,3-Dichloropropene	<5.9		5.9	0.78	ug/Kg	☼		01/22/15 10:42	1
Dibromochloromethane	<5.9		5.9	1.0	ug/Kg	☼		01/22/15 10:42	1
1,1-Dichloroethane	<5.9		5.9	0.94	ug/Kg	☼		01/22/15 10:42	1
1,2-Dichloroethane	<5.9		5.9	0.88	ug/Kg	☼		01/22/15 10:42	1
1,1-Dichloroethene	<5.9		5.9	0.96	ug/Kg	☼		01/22/15 10:42	1
1,2-Dichloropropane	<5.9		5.9	0.90	ug/Kg	☼		01/22/15 10:42	1
1,3-Dichloropropene, Total	<5.9		5.9	0.78	ug/Kg	☼		01/22/15 10:42	1
Ethylbenzene	<5.9		5.9	1.2	ug/Kg	☼		01/22/15 10:42	1
2-Hexanone	<5.9		5.9	1.7	ug/Kg	☼		01/22/15 10:42	1
Methylene Chloride	<5.9		5.9	1.6	ug/Kg	☼		01/22/15 10:42	1
Methyl Ethyl Ketone	3.0 J		5.9	2.1	ug/Kg	☼		01/22/15 10:42	1
methyl isobutyl ketone	<5.9		5.9	1.6	ug/Kg	☼		01/22/15 10:42	1
Methyl tert-butyl ether	<5.9		5.9	0.98	ug/Kg	☼		01/22/15 10:42	1
Styrene	<5.9		5.9	0.78	ug/Kg	☼		01/22/15 10:42	1
1,1,2,2-Tetrachloroethane	<5.9		5.9	1.2	ug/Kg	☼		01/22/15 10:42	1
Tetrachloroethene	<5.9		5.9	0.90	ug/Kg	☼		01/22/15 10:42	1
Toluene	<5.9		5.9	0.83	ug/Kg	☼		01/22/15 10:42	1
trans-1,2-Dichloroethene	<5.9		5.9	0.81	ug/Kg	☼		01/22/15 10:42	1
trans-1,3-Dichloropropene	<5.9		5.9	1.1	ug/Kg	☼		01/22/15 10:42	1
1,1,1-Trichloroethane	<5.9		5.9	0.88	ug/Kg	☼		01/22/15 10:42	1
1,1,2-Trichloroethane	<5.9		5.9	0.81	ug/Kg	☼		01/22/15 10:42	1
Trichloroethene	<5.9		5.9	0.98	ug/Kg	☼		01/22/15 10:42	1
Vinyl chloride	<5.9		5.9	1.2	ug/Kg	☼		01/22/15 10:42	1
Xylenes, Total	<12		12	0.54	ug/Kg	☼		01/22/15 10:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122		01/22/15 10:42	1
Dibromofluoromethane	106		75 - 120		01/22/15 10:42	1
1,2-Dichloroethane-d4 (Surr)	118		70 - 134		01/22/15 10:42	1
Toluene-d8 (Surr)	94		75 - 122		01/22/15 10:42	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	☼	01/20/15 07:14	01/22/15 00:08	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	01/20/15 07:14	01/22/15 00:08	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	01/20/15 07:14	01/22/15 00:08	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	01/20/15 07:14	01/22/15 00:08	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	01/20/15 07:14	01/22/15 00:08	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90936-1

Client Sample ID: LL-2(0-3)-011615

Lab Sample ID: 500-90936-18

Date Collected: 01/16/15 12:10

Matrix: Solid

Date Received: 01/16/15 16:00

Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<380		380	86	ug/Kg	*	01/20/15 07:14	01/22/15 00:08	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	*	01/20/15 07:14	01/22/15 00:08	1
2,4-Dichlorophenol	<380		380	90	ug/Kg	*	01/20/15 07:14	01/22/15 00:08	1
2,4-Dimethylphenol	<380		380	140	ug/Kg	*	01/20/15 07:14	01/22/15 00:08	1
2,4-Dinitrophenol	<760		760	670	ug/Kg	*	01/20/15 07:14	01/22/15 00:08	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	*	01/20/15 07:14	01/22/15 00:08	1
2,6-Dinitrotoluene	<190		190	75	ug/Kg	*	01/20/15 07:14	01/22/15 00:08	1
2-Chloronaphthalene	<190		190	42	ug/Kg	*	01/20/15 07:14	01/22/15 00:08	1
2-Chlorophenol	<190		190	65	ug/Kg	*	01/20/15 07:14	01/22/15 00:08	1
2-Methylnaphthalene	<38		38	7.0	ug/Kg	*	01/20/15 07:14	01/22/15 00:08	1
2-Methylphenol	<190		190	61	ug/Kg	*	01/20/15 07:14	01/22/15 00:08	1
2-Nitroaniline	<190		190	51	ug/Kg	*	01/20/15 07:14	01/22/15 00:08	1
2-Nitrophenol	<380		380	90	ug/Kg	*	01/20/15 07:14	01/22/15 00:08	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	*	01/20/15 07:14	01/22/15 00:08	1
3,3'-Dichlorobenzidine	<190		190	53	ug/Kg	*	01/20/15 07:14	01/22/15 00:08	1
3-Nitroaniline	<380		380	120	ug/Kg	*	01/20/15 07:14	01/22/15 00:08	1
4,6-Dinitro-2-methylphenol	<380		380	300	ug/Kg	*	01/20/15 07:14	01/22/15 00:08	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	*	01/20/15 07:14	01/22/15 00:08	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	*	01/20/15 07:14	01/22/15 00:08	1
4-Chloroaniline	<760		760	180	ug/Kg	*	01/20/15 07:14	01/22/15 00:08	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	*	01/20/15 07:14	01/22/15 00:08	1
4-Nitroaniline	<380		380	160	ug/Kg	*	01/20/15 07:14	01/22/15 00:08	1
4-Nitrophenol	<760		760	360	ug/Kg	*	01/20/15 07:14	01/22/15 00:08	1
Acenaphthene	<38		38	6.8	ug/Kg	*	01/20/15 07:14	01/22/15 00:08	1
Acenaphthylene	<38		38	5.0	ug/Kg	*	01/20/15 07:14	01/22/15 00:08	1
Anthracene	<38		38	6.3	ug/Kg	*	01/20/15 07:14	01/22/15 00:08	1
Benzo[a]anthracene	<38		38	5.1	ug/Kg	*	01/20/15 07:14	01/22/15 00:08	1
Benzo[a]pyrene	<38		38	7.3	ug/Kg	*	01/20/15 07:14	01/22/15 00:08	1
Benzo[b]fluoranthene	<38		38	8.2	ug/Kg	*	01/20/15 07:14	01/22/15 00:08	1
Benzo[g,h,i]perylene	<38		38	12	ug/Kg	*	01/20/15 07:14	01/22/15 00:08	1
Benzo[k]fluoranthene	<38		38	11	ug/Kg	*	01/20/15 07:14	01/22/15 00:08	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	*	01/20/15 07:14	01/22/15 00:08	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	*	01/20/15 07:14	01/22/15 00:08	1
Bis(2-ethylhexyl) phthalate	<190		190	69	ug/Kg	*	01/20/15 07:14	01/22/15 00:08	1
Butyl benzyl phthalate	<190		190	72	ug/Kg	*	01/20/15 07:14	01/22/15 00:08	1
Carbazole	<190		190	98	ug/Kg	*	01/20/15 07:14	01/22/15 00:08	1
Chrysene	<38		38	10	ug/Kg	*	01/20/15 07:14	01/22/15 00:08	1
Dibenz(a,h)anthracene	<38		38	7.3	ug/Kg	*	01/20/15 07:14	01/22/15 00:08	1
Dibenzofuran	<190		190	44	ug/Kg	*	01/20/15 07:14	01/22/15 00:08	1
Diethyl phthalate	<190		190	64	ug/Kg	*	01/20/15 07:14	01/22/15 00:08	1
Dimethyl phthalate	<190		190	50	ug/Kg	*	01/20/15 07:14	01/22/15 00:08	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	*	01/20/15 07:14	01/22/15 00:08	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	*	01/20/15 07:14	01/22/15 00:08	1
Fluoranthene	<38		38	7.0	ug/Kg	*	01/20/15 07:14	01/22/15 00:08	1
Fluorene	<38		38	5.3	ug/Kg	*	01/20/15 07:14	01/22/15 00:08	1
Hexachlorobenzene	<76		76	8.8	ug/Kg	*	01/20/15 07:14	01/22/15 00:08	1
Hexachlorobutadiene	<190		190	60	ug/Kg	*	01/20/15 07:14	01/22/15 00:08	1
Hexachlorocyclopentadiene	<760		760	220	ug/Kg	*	01/20/15 07:14	01/22/15 00:08	1
Hexachloroethane	<190		190	58	ug/Kg	*	01/20/15 07:14	01/22/15 00:08	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90936-1

Client Sample ID: LL-2(0-3)-011615

Lab Sample ID: 500-90936-18

Date Collected: 01/16/15 12:10

Matrix: Solid

Date Received: 01/16/15 16:00

Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<38		38	9.8	ug/Kg	☼	01/20/15 07:14	01/22/15 00:08	1
Isophorone	<190		190	43	ug/Kg	☼	01/20/15 07:14	01/22/15 00:08	1
Naphthalene	<38		38	5.8	ug/Kg	☼	01/20/15 07:14	01/22/15 00:08	1
Nitrobenzene	<38		38	9.5	ug/Kg	☼	01/20/15 07:14	01/22/15 00:08	1
N-Nitrosodi-n-propylamine	<190		190	46	ug/Kg	☼	01/20/15 07:14	01/22/15 00:08	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	01/20/15 07:14	01/22/15 00:08	1
Pentachlorophenol	<760		760	610	ug/Kg	☼	01/20/15 07:14	01/22/15 00:08	1
Phenanthrene	<38		38	5.3	ug/Kg	☼	01/20/15 07:14	01/22/15 00:08	1
Phenol	<190		190	84	ug/Kg	☼	01/20/15 07:14	01/22/15 00:08	1
Pyrene	<38		38	7.5	ug/Kg	☼	01/20/15 07:14	01/22/15 00:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	46		35 - 137				01/20/15 07:14	01/22/15 00:08	1
2-Fluorobiphenyl	44		25 - 119				01/20/15 07:14	01/22/15 00:08	1
2-Fluorophenol	43		25 - 110				01/20/15 07:14	01/22/15 00:08	1
Nitrobenzene-d5	39		25 - 115				01/20/15 07:14	01/22/15 00:08	1
Phenol-d5	45		31 - 110				01/20/15 07:14	01/22/15 00:08	1
Terphenyl-d14	51		36 - 134				01/20/15 07:14	01/22/15 00:08	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		01/21/15 08:45	01/22/15 03:06	1
Barium	0.40	J	0.50	0.050	mg/L		01/21/15 08:45	01/22/15 03:06	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/21/15 08:45	01/22/15 03:06	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/21/15 08:45	01/22/15 03:06	1
Chromium	<0.025		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 03:06	1
Cobalt	<0.025		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 03:06	1
Copper	0.037		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 03:06	1
Iron	<0.20		0.20	0.20	mg/L		01/21/15 08:45	01/22/15 03:06	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/21/15 08:45	01/22/15 03:06	1
Manganese	2.9		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 03:06	1
Nickel	<0.025		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 03:06	1
Selenium	<0.050		0.050	0.020	mg/L		01/21/15 08:45	01/22/15 03:06	1
Silver	<0.025		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 03:06	1
Zinc	0.040	J	0.10	0.020	mg/L		01/21/15 08:45	01/22/15 03:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.031	J	0.050	0.010	mg/L		01/21/15 09:30	01/22/15 16:53	1
Barium	0.29	J	0.50	0.050	mg/L		01/21/15 09:30	01/22/15 16:53	1
Beryllium	0.0042		0.0040	0.0040	mg/L		01/21/15 09:30	01/22/15 16:53	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/21/15 09:30	01/22/15 16:53	1
Chromium	0.10		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 16:53	1
Cobalt	0.033		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 16:53	1
Copper	0.12		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 16:53	1
Iron	85		0.20	0.20	mg/L		01/21/15 09:30	01/22/15 16:53	1
Lead	0.058		0.0075	0.0075	mg/L		01/21/15 09:30	01/22/15 16:53	1
Manganese	0.99		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 16:53	1
Nickel	0.10		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 16:53	1
Selenium	<0.050		0.050	0.020	mg/L		01/21/15 09:30	01/22/15 16:53	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90936-1

Client Sample ID: LL-2(0-3)-011615

Lab Sample ID: 500-90936-18

Date Collected: 01/16/15 12:10

Matrix: Solid

Date Received: 01/16/15 16:00

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		01/21/15 09:30	01/22/15 16:53	1
Zinc	0.25		0.10	0.020	mg/L		01/21/15 09:30	01/22/15 16:53	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.34	J B	1.2	0.24	mg/Kg	☼	01/19/15 16:20	01/21/15 05:19	1
Arsenic	5.3		0.58	0.27	mg/Kg	☼	01/19/15 16:20	01/21/15 05:19	1
Barium	46		0.58	0.11	mg/Kg	☼	01/19/15 16:20	01/21/15 05:19	1
Beryllium	0.64		0.23	0.050	mg/Kg	☼	01/19/15 16:20	01/21/15 05:19	1
Cadmium	0.038	J	0.12	0.034	mg/Kg	☼	01/19/15 16:20	01/21/15 20:34	1
Calcium	83000		120	37	mg/Kg	☼	01/19/15 16:20	01/21/15 20:39	10
Chromium	17		0.58	0.10	mg/Kg	☼	01/19/15 16:20	01/21/15 05:19	1
Cobalt	9.5		0.29	0.066	mg/Kg	☼	01/19/15 16:20	01/21/15 05:19	1
Copper	25		0.58	0.13	mg/Kg	☼	01/19/15 16:20	01/21/15 05:19	1
Iron	16000		12	4.5	mg/Kg	☼	01/19/15 16:20	01/21/15 05:19	1
Lead	27		0.29	0.14	mg/Kg	☼	01/19/15 16:20	01/21/15 05:19	1
Magnesium	33000		5.8	2.4	mg/Kg	☼	01/19/15 16:20	01/21/15 05:19	1
Manganese	480		0.58	0.11	mg/Kg	☼	01/19/15 16:20	01/21/15 05:19	1
Nickel	21		0.58	0.16	mg/Kg	☼	01/19/15 16:20	01/21/15 05:19	1
Potassium	3200		29	4.7	mg/Kg	☼	01/19/15 16:20	01/21/15 05:19	1
Selenium	<0.58		0.58	0.29	mg/Kg	☼	01/19/15 16:20	01/21/15 05:19	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	01/19/15 16:20	01/21/15 05:19	1
Sodium	1100		58	7.7	mg/Kg	☼	01/19/15 16:20	01/21/15 05:19	1
Thallium	0.54	J	0.58	0.29	mg/Kg	☼	01/19/15 16:20	01/21/15 05:19	1
Vanadium	21		0.29	0.085	mg/Kg	☼	01/19/15 16:20	01/21/15 05:19	1
Zinc	84	B	1.2	0.37	mg/Kg	☼	01/19/15 16:20	01/21/15 05:19	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		01/21/15 11:30	01/22/15 09:58	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		01/21/15 11:30	01/22/15 10:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	18		17	6.0	ug/Kg	☼	01/19/15 14:30	01/20/15 10:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.01		0.200	0.200	SU			01/21/15 13:15	1

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90936-1

Client Sample ID: LL-1(0-3)-011615

Lab Sample ID: 500-90936-19

Date Collected: 01/16/15 12:25

Matrix: Solid

Date Received: 01/16/15 16:00

Percent Solids: 87.1

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.8		5.7	2.5	ug/Kg	☼		01/22/15 11:54	1
Benzene	<5.7		5.7	0.79	ug/Kg	☼		01/22/15 11:54	1
Bromodichloromethane	<5.7		5.7	0.99	ug/Kg	☼		01/22/15 11:54	1
Bromoform	<5.7		5.7	1.3	ug/Kg	☼		01/22/15 11:54	1
Bromomethane	<5.7		5.7	1.7	ug/Kg	☼		01/22/15 11:54	1
Carbon disulfide	<5.7		5.7	0.86	ug/Kg	☼		01/22/15 11:54	1
Carbon tetrachloride	<5.7		5.7	1.0	ug/Kg	☼		01/22/15 11:54	1
Chlorobenzene	<5.7		5.7	0.58	ug/Kg	☼		01/22/15 11:54	1
Chloroethane	<5.7		5.7	1.6	ug/Kg	☼		01/22/15 11:54	1
Chloroform	<5.7		5.7	0.66	ug/Kg	☼		01/22/15 11:54	1
Chloromethane	<5.7		5.7	1.2	ug/Kg	☼		01/22/15 11:54	1
cis-1,2-Dichloroethene	<5.7		5.7	0.81	ug/Kg	☼		01/22/15 11:54	1
cis-1,3-Dichloropropene	<5.7		5.7	0.75	ug/Kg	☼		01/22/15 11:54	1
Dibromochloromethane	<5.7		5.7	1.0	ug/Kg	☼		01/22/15 11:54	1
1,1-Dichloroethane	<5.7		5.7	0.91	ug/Kg	☼		01/22/15 11:54	1
1,2-Dichloroethane	<5.7		5.7	0.85	ug/Kg	☼		01/22/15 11:54	1
1,1-Dichloroethene	<5.7		5.7	0.93	ug/Kg	☼		01/22/15 11:54	1
1,2-Dichloropropane	<5.7		5.7	0.87	ug/Kg	☼		01/22/15 11:54	1
1,3-Dichloropropene, Total	<5.7		5.7	0.75	ug/Kg	☼		01/22/15 11:54	1
Ethylbenzene	<5.7		5.7	1.2	ug/Kg	☼		01/22/15 11:54	1
2-Hexanone	<5.7		5.7	1.7	ug/Kg	☼		01/22/15 11:54	1
Methylene Chloride	<5.7		5.7	1.5	ug/Kg	☼		01/22/15 11:54	1
Methyl Ethyl Ketone	<5.7		5.7	2.1	ug/Kg	☼		01/22/15 11:54	1
methyl isobutyl ketone	<5.7		5.7	1.5	ug/Kg	☼		01/22/15 11:54	1
Methyl tert-butyl ether	<5.7		5.7	0.95	ug/Kg	☼		01/22/15 11:54	1
Styrene	<5.7		5.7	0.75	ug/Kg	☼		01/22/15 11:54	1
1,1,1,2-Tetrachloroethane	<5.7		5.7	1.2	ug/Kg	☼		01/22/15 11:54	1
Tetrachloroethene	<5.7		5.7	0.88	ug/Kg	☼		01/22/15 11:54	1
Toluene	<5.7		5.7	0.80	ug/Kg	☼		01/22/15 11:54	1
trans-1,2-Dichloroethene	<5.7		5.7	0.79	ug/Kg	☼		01/22/15 11:54	1
trans-1,3-Dichloropropene	<5.7		5.7	1.0	ug/Kg	☼		01/22/15 11:54	1
1,1,1-Trichloroethane	<5.7		5.7	0.86	ug/Kg	☼		01/22/15 11:54	1
1,1,2-Trichloroethane	<5.7		5.7	0.78	ug/Kg	☼		01/22/15 11:54	1
Trichloroethene	<5.7		5.7	0.95	ug/Kg	☼		01/22/15 11:54	1
Vinyl chloride	<5.7		5.7	1.2	ug/Kg	☼		01/22/15 11:54	1
Xylenes, Total	<11		11	0.52	ug/Kg	☼		01/22/15 11:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 122		01/22/15 11:54	1
Dibromofluoromethane	109		75 - 120		01/22/15 11:54	1
1,2-Dichloroethane-d4 (Surr)	120		70 - 134		01/22/15 11:54	1
Toluene-d8 (Surr)	94		75 - 122		01/22/15 11:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<180		180	39	ug/Kg	☼	01/20/15 07:14	01/22/15 00:31	1
1,2-Dichlorobenzene	<180		180	43	ug/Kg	☼	01/20/15 07:14	01/22/15 00:31	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	01/20/15 07:14	01/22/15 00:31	1
1,4-Dichlorobenzene	<180		180	46	ug/Kg	☼	01/20/15 07:14	01/22/15 00:31	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	01/20/15 07:14	01/22/15 00:31	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90936-1

Client Sample ID: LL-1(0-3)-011615

Lab Sample ID: 500-90936-19

Date Collected: 01/16/15 12:25

Matrix: Solid

Date Received: 01/16/15 16:00

Percent Solids: 87.1

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	☼	01/20/15 07:14	01/22/15 00:31	1
2,4,6-Trichlorophenol	<360		360	120	ug/Kg	☼	01/20/15 07:14	01/22/15 00:31	1
2,4-Dichlorophenol	<360		360	85	ug/Kg	☼	01/20/15 07:14	01/22/15 00:31	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	01/20/15 07:14	01/22/15 00:31	1
2,4-Dinitrophenol	<730		730	630	ug/Kg	☼	01/20/15 07:14	01/22/15 00:31	1
2,4-Dinitrotoluene	<180		180	57	ug/Kg	☼	01/20/15 07:14	01/22/15 00:31	1
2,6-Dinitrotoluene	<180		180	71	ug/Kg	☼	01/20/15 07:14	01/22/15 00:31	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	01/20/15 07:14	01/22/15 00:31	1
2-Chlorophenol	<180		180	61	ug/Kg	☼	01/20/15 07:14	01/22/15 00:31	1
2-Methylnaphthalene	<36		36	6.6	ug/Kg	☼	01/20/15 07:14	01/22/15 00:31	1
2-Methylphenol	<180		180	58	ug/Kg	☼	01/20/15 07:14	01/22/15 00:31	1
2-Nitroaniline	<180		180	48	ug/Kg	☼	01/20/15 07:14	01/22/15 00:31	1
2-Nitrophenol	<360		360	85	ug/Kg	☼	01/20/15 07:14	01/22/15 00:31	1
3 & 4 Methylphenol	<180		180	60	ug/Kg	☼	01/20/15 07:14	01/22/15 00:31	1
3,3'-Dichlorobenzidine	<180		180	50	ug/Kg	☼	01/20/15 07:14	01/22/15 00:31	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	01/20/15 07:14	01/22/15 00:31	1
4,6-Dinitro-2-methylphenol	<360		360	290	ug/Kg	☼	01/20/15 07:14	01/22/15 00:31	1
4-Bromophenyl phenyl ether	<180		180	47	ug/Kg	☼	01/20/15 07:14	01/22/15 00:31	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	01/20/15 07:14	01/22/15 00:31	1
4-Chloroaniline	<730		730	170	ug/Kg	☼	01/20/15 07:14	01/22/15 00:31	1
4-Chlorophenyl phenyl ether	<180		180	42	ug/Kg	☼	01/20/15 07:14	01/22/15 00:31	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	01/20/15 07:14	01/22/15 00:31	1
4-Nitrophenol	<730		730	340	ug/Kg	☼	01/20/15 07:14	01/22/15 00:31	1
Acenaphthene	<36		36	6.5	ug/Kg	☼	01/20/15 07:14	01/22/15 00:31	1
Acenaphthylene	<36		36	4.7	ug/Kg	☼	01/20/15 07:14	01/22/15 00:31	1
Anthracene	<36		36	6.0	ug/Kg	☼	01/20/15 07:14	01/22/15 00:31	1
Benzo[a]anthracene	<36		36	4.8	ug/Kg	☼	01/20/15 07:14	01/22/15 00:31	1
Benzo[a]pyrene	<36		36	7.0	ug/Kg	☼	01/20/15 07:14	01/22/15 00:31	1
Benzo[b]fluoranthene	<36		36	7.8	ug/Kg	☼	01/20/15 07:14	01/22/15 00:31	1
Benzo[g,h,i]perylene	<36		36	12	ug/Kg	☼	01/20/15 07:14	01/22/15 00:31	1
Benzo[k]fluoranthene	<36		36	11	ug/Kg	☼	01/20/15 07:14	01/22/15 00:31	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	01/20/15 07:14	01/22/15 00:31	1
Bis(2-chloroethyl)ether	<180		180	54	ug/Kg	☼	01/20/15 07:14	01/22/15 00:31	1
Bis(2-ethylhexyl) phthalate	<180		180	66	ug/Kg	☼	01/20/15 07:14	01/22/15 00:31	1
Butyl benzyl phthalate	<180		180	68	ug/Kg	☼	01/20/15 07:14	01/22/15 00:31	1
Carbazole	<180		180	93	ug/Kg	☼	01/20/15 07:14	01/22/15 00:31	1
Chrysene	<36		36	9.8	ug/Kg	☼	01/20/15 07:14	01/22/15 00:31	1
Dibenz(a,h)anthracene	<36		36	7.0	ug/Kg	☼	01/20/15 07:14	01/22/15 00:31	1
Dibenzofuran	<180		180	42	ug/Kg	☼	01/20/15 07:14	01/22/15 00:31	1
Diethyl phthalate	<180		180	61	ug/Kg	☼	01/20/15 07:14	01/22/15 00:31	1
Dimethyl phthalate	<180		180	47	ug/Kg	☼	01/20/15 07:14	01/22/15 00:31	1
Di-n-butyl phthalate	<180		180	55	ug/Kg	☼	01/20/15 07:14	01/22/15 00:31	1
Di-n-octyl phthalate	<180		180	59	ug/Kg	☼	01/20/15 07:14	01/22/15 00:31	1
Fluoranthene	<36		36	6.7	ug/Kg	☼	01/20/15 07:14	01/22/15 00:31	1
Fluorene	<36		36	5.1	ug/Kg	☼	01/20/15 07:14	01/22/15 00:31	1
Hexachlorobenzene	<73		73	8.3	ug/Kg	☼	01/20/15 07:14	01/22/15 00:31	1
Hexachlorobutadiene	<180		180	57	ug/Kg	☼	01/20/15 07:14	01/22/15 00:31	1
Hexachlorocyclopentadiene	<730		730	210	ug/Kg	☼	01/20/15 07:14	01/22/15 00:31	1
Hexachloroethane	<180		180	55	ug/Kg	☼	01/20/15 07:14	01/22/15 00:31	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90936-1

Client Sample ID: LL-1(0-3)-011615

Lab Sample ID: 500-90936-19

Date Collected: 01/16/15 12:25

Matrix: Solid

Date Received: 01/16/15 16:00

Percent Solids: 87.1

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	<36		36	9.3	ug/Kg	☼	01/20/15 07:14	01/22/15 00:31	1
Isophorone	<180		180	40	ug/Kg	☼	01/20/15 07:14	01/22/15 00:31	1
Naphthalene	<36		36	5.5	ug/Kg	☼	01/20/15 07:14	01/22/15 00:31	1
Nitrobenzene	<36		36	9.0	ug/Kg	☼	01/20/15 07:14	01/22/15 00:31	1
N-Nitrosodi-n-propylamine	<180		180	44	ug/Kg	☼	01/20/15 07:14	01/22/15 00:31	1
N-Nitrosodiphenylamine	<180		180	42	ug/Kg	☼	01/20/15 07:14	01/22/15 00:31	1
Pentachlorophenol	<730		730	580	ug/Kg	☼	01/20/15 07:14	01/22/15 00:31	1
Phenanthrene	<36		36	5.0	ug/Kg	☼	01/20/15 07:14	01/22/15 00:31	1
Phenol	<180		180	80	ug/Kg	☼	01/20/15 07:14	01/22/15 00:31	1
Pyrene	<36		36	7.2	ug/Kg	☼	01/20/15 07:14	01/22/15 00:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	35		35 - 137				01/20/15 07:14	01/22/15 00:31	1
2-Fluorobiphenyl	37		25 - 119				01/20/15 07:14	01/22/15 00:31	1
2-Fluorophenol	35		25 - 110				01/20/15 07:14	01/22/15 00:31	1
Nitrobenzene-d5	32		25 - 115				01/20/15 07:14	01/22/15 00:31	1
Phenol-d5	38		31 - 110				01/20/15 07:14	01/22/15 00:31	1
Terphenyl-d14	47		36 - 134				01/20/15 07:14	01/22/15 00:31	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/21/15 08:45	01/22/15 03:12	1
Barium	0.40	J	0.50	0.050	mg/L		01/21/15 08:45	01/22/15 03:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/21/15 08:45	01/22/15 03:12	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/21/15 08:45	01/22/15 03:12	1
Chromium	<0.025		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 03:12	1
Cobalt	<0.025		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 03:12	1
Copper	0.024	J	0.025	0.010	mg/L		01/21/15 08:45	01/22/15 03:12	1
Iron	<0.20		0.20	0.20	mg/L		01/21/15 08:45	01/22/15 03:12	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/21/15 08:45	01/22/15 03:12	1
Manganese	1.1		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 03:12	1
Nickel	<0.025		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 03:12	1
Selenium	<0.050		0.050	0.020	mg/L		01/21/15 08:45	01/22/15 03:12	1
Silver	<0.025		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 03:12	1
Zinc	0.046	J	0.10	0.020	mg/L		01/21/15 08:45	01/22/15 03:12	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		01/21/15 09:30	01/22/15 16:59	1
Barium	0.15	J	0.50	0.050	mg/L		01/21/15 09:30	01/22/15 16:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/21/15 09:30	01/22/15 16:59	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/21/15 09:30	01/22/15 16:59	1
Chromium	0.042		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 16:59	1
Cobalt	<0.025		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 16:59	1
Copper	0.098		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 16:59	1
Iron	31		0.20	0.20	mg/L		01/21/15 09:30	01/22/15 16:59	1
Lead	0.023		0.0075	0.0075	mg/L		01/21/15 09:30	01/22/15 16:59	1
Manganese	0.26		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 16:59	1
Nickel	0.038		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 16:59	1
Selenium	<0.050		0.050	0.020	mg/L		01/21/15 09:30	01/22/15 16:59	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90936-1

Client Sample ID: LL-1(0-3)-011615

Lab Sample ID: 500-90936-19

Date Collected: 01/16/15 12:25

Matrix: Solid

Date Received: 01/16/15 16:00

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		01/21/15 09:30	01/22/15 16:59	1
Zinc	0.13		0.10	0.020	mg/L		01/21/15 09:30	01/22/15 16:59	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.37	J B	1.1	0.23	mg/Kg	☼	01/19/15 16:20	01/21/15 05:40	1
Arsenic	5.7		0.56	0.26	mg/Kg	☼	01/19/15 16:20	01/21/15 05:40	1
Barium	47		0.56	0.10	mg/Kg	☼	01/19/15 16:20	01/21/15 05:40	1
Beryllium	0.66		0.23	0.049	mg/Kg	☼	01/19/15 16:20	01/21/15 05:40	1
Cadmium	0.044	J	0.11	0.033	mg/Kg	☼	01/19/15 16:20	01/21/15 20:43	1
Calcium	53000		11	3.6	mg/Kg	☼	01/19/15 16:20	01/21/15 05:40	1
Chromium	19		0.56	0.097	mg/Kg	☼	01/19/15 16:20	01/21/15 05:40	1
Cobalt	8.3		0.28	0.064	mg/Kg	☼	01/19/15 16:20	01/21/15 05:40	1
Copper	20		0.56	0.12	mg/Kg	☼	01/19/15 16:20	01/21/15 05:40	1
Iron	17000		11	4.3	mg/Kg	☼	01/19/15 16:20	01/21/15 05:40	1
Lead	13		0.28	0.14	mg/Kg	☼	01/19/15 16:20	01/21/15 05:40	1
Magnesium	28000		5.6	2.3	mg/Kg	☼	01/19/15 16:20	01/21/15 05:40	1
Manganese	400		0.56	0.11	mg/Kg	☼	01/19/15 16:20	01/21/15 05:40	1
Nickel	23		0.56	0.15	mg/Kg	☼	01/19/15 16:20	01/21/15 05:40	1
Potassium	3700		28	4.6	mg/Kg	☼	01/19/15 16:20	01/21/15 05:40	1
Selenium	<0.56		0.56	0.28	mg/Kg	☼	01/19/15 16:20	01/21/15 05:40	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	01/19/15 16:20	01/21/15 05:40	1
Sodium	1400		56	7.4	mg/Kg	☼	01/19/15 16:20	01/21/15 05:40	1
Thallium	0.75		0.56	0.28	mg/Kg	☼	01/19/15 16:20	01/21/15 05:40	1
Vanadium	22		0.28	0.082	mg/Kg	☼	01/19/15 16:20	01/21/15 05:40	1
Zinc	43	B	1.1	0.36	mg/Kg	☼	01/19/15 16:20	01/21/15 05:40	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		01/21/15 11:30	01/22/15 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		01/21/15 11:30	01/22/15 11:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	18		18	6.4	ug/Kg	☼	01/19/15 14:30	01/20/15 10:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.34		0.200	0.200	SU			01/21/15 13:23	1

Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90936-1

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.
F1	MS and/or MSD Recovery exceeds the control limits

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD Recovery exceeds the control limits
F2	MS/MSD RPD exceeds control limits

Glossary

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

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90936-1

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-15

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

Analysis Method	Prep Method	Matrix	Analyte
7470A	7470A	Solid	Mercury
8260B		Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids



Report To (optional)
Contact: S Babusukumar
Company: Weston Solutions
Address: 300 Plaza Circle Sk 202
Address: Mundelein, IL 60060
Phone: (224) 864-7200
Fax:
E-Mail:

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

Chain of Custody Record

Lab Job #: 500-90936
Chain of Custody Number:
Page 1 of 3
Temperature °C of Cooler: (3.9) (4.2)

Client		Client Project #		Preservative		Parameter		Preservative Key	
<u>Weston</u>				<u>7</u>	<u>7</u>	<u>7</u>	<u>7</u>	<u>7</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 001</u>				<u>2</u>	<u>S</u>	<u>VOCS</u>	<u>SVOCs</u>		
Project Location/State		Lab PM		Date		Time			
<u>IL</u>		<u>D. WRIGHT</u>		<u>1/15/15</u>		<u>1535</u>			
Sampler		Sample ID		Date		Time			
<u>M. Strou</u>		<u>Row-8 (0-3)-011515</u>		<u>1/15/15</u>		<u>1535</u>			
Lab ID	MS/MSD	Sample ID		Date		Time			
<u>1</u>		<u>Row-8 (0-3)-011515</u>		<u>1/15/15</u>		<u>1535</u>			
<u>2</u>		<u>Row-7 (0-3)-011515</u>		<u>1/15/15</u>		<u>1540</u>			
<u>3</u>		<u>Row-6 (0-3)-011515</u>		<u>1/15/15</u>		<u>1550</u>			
<u>4</u>		<u>Row-5 (0-3)-011515</u>		<u>1/15/15</u>		<u>1600</u>			
<u>5</u>		<u>Row-4 (0-3)-011515</u>		<u>1/15/15</u>		<u>1610</u>			
<u>6</u>		<u>A43-1 (0-3)-011515</u>		<u>1/15/15</u>		<u>1645</u>			
<u>7</u>		<u>Row-15 (0-3)-011615</u>		<u>1/16/15</u>		<u>0830</u>			
<u>8</u>		<u>Row-16 (0-3)-011615</u>		<u>1/16/15</u>		<u>0840</u>			
<u>9</u>		<u>Row-16 (0-3)-011615</u>		<u>1/16/15</u>		<u>0840</u>			
<u>10</u>		<u>Row-18 (0-3)-011615</u>		<u>1/16/15</u>		<u>0850</u>			

Turnaround Time Required (Business Days)

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

Requested Due Date _____ Sample Disposal 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>1/16/15</u>	Time: <u>1420</u>	Received By: <u>[Signature]</u>	Company: <u>TA</u>	Date: <u>1/16/15</u>	Time: <u>1420</u>
Relinquished By: <u>[Signature]</u>	Company: <u>TA</u>	Date: <u>1/16/15</u>	Time: <u>1600</u>	Received By: <u>[Signature]</u>	Company: <u>TA</u>	Date: <u>1/16/15</u>	Time: <u>1600</u>

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: S. Babusulekumar
Company: Weston Solutions
Address: 300 Plaza Circle Ste 202
Address: Mundelein, IL 60060
Phone: (224) 864-7200
Fax:
E-Mail:

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

Chain of Custody Record

Lab Job #: 500-90936

Chain of Custody Number: _____

Page 2 of 3

Temperature °C of Cooler: _____

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				
Sampler		Lab PM		# of Containers		Matrix		Comments		
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	Matrix	Matrix	Matrix	Matrix
11		ROW-19(0-3)-011615	1/16/15	0905	2	S	VOCs	X	X	X
12		ROW-21(0-3)-011615		0935			SVOCs			
13		ROW-20(0-3)-011615		0950			Total Metals			
14		ROW-17(0-3)-011615		1100			Temp/SPLP Metals			
15		ROW-13(0-3)-011615		1110			pH			
16		LT-2(0-3)-011615		1130						
17		LT-1(0-3)-011615		1150						
18		LL-2(0-3)-011615		1210						
19		LL-1(0-3)-011615		1225						
20		CL-1(0-3)-011615		1230						

Turnaround Time Required (Business Days)

___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days Standard 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>M. Straw</u> Company <u>Weston</u> Date <u>1/16/15</u> Time <u>1420</u>	Received By <u>[Signature]</u> Company <u>TA</u> Date <u>1/16/15</u> Time <u>1420</u>
Relinquished By <u>[Signature]</u> Company <u>TA</u> Date <u>1/16/15</u> Time <u>1600</u>	Received By <u>[Signature]</u> Company <u>TA</u> Date <u>1/16/15</u> Time <u>1600</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:



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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 346: US 41 from IL 21 to West Park Ave Office Phone Number, if available: _____

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

510 to 536 Old Skokie Road

City: Park City State: IL Zip Code: _____

County: Lake Township: _____

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

Latitude: 42.351749826 Longitude: -87.893155385
(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: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

PO Box: _____

PO Box: _____

City: Schaumburg State: IL

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4101

Zip Code: 60196-1096 Phone: 847-705-4101

Contact: Sam Mead

Contact: Sam Mead

Email, if available: Sam.Mead@illinois.gov

Email, if available: Sam.Mead@illinois.gov

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

Project Name: FAP 346: US 41 from IL 21 to West Park Ave

Latitude: 42.351749826 Longitude: -87.893155385

Uncontaminated Site Certification

III. Basis for Certification and Attachments

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

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

LOCATIONS LT-1 AND LT-2 WERE SAMPLED ADJACENT TO ISGS SITE No. 2668A-63. SEE FIGURE 3-6 AND TABLE 4-1 OF THE REVISED 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]:

TEST AMERICA ANALYTICAL REPORT - JOB ID: 500-90936-1

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

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

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

Company Name: Illinois Department of Transportation

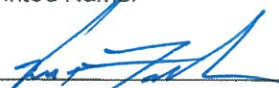
Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Kurt T. Fischer P.G.

Printed Name:



2/9/15

Date:

Licensed Professional Engineer or
Licensed Professional Geologist Signature:



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

Summary Table of ISGS Site No. 2668A-63
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 346: US Route 41 (Skokie Highway) from IL Route 21 to West Park Avenue
Gurnee, Park City, Waukegan, and North Chicago, Lake County, Illinois

Field Sample ID	LT-1(0-3)-011615	LT-2(0-3)-011615	Soil Reference Concentrations ^A
Sample Date	1/16/2015	1/16/2015	
Location ID	LT-1	LT-2	
Depth	0 - 3	0 - 3	
Lab Sample ID	500-90936-17	500-90936-16	
ISGS Site Number	2668A-63	2668A-63	
Parameter			
Laboratory pH (s.u.)	8.48	8.05	<6.25,>9.0
VOCs (ug/kg)			
Acetone	ND	6.6	25000
SVOCs (ug/kg)			
Benzo(a)anthracene	ND	12 J	900 / 1100 / 1800
Benzo(a)pyrene	ND	13 J	90 / 1300 / 2100
Benzo(b)fluoranthene	ND	20 J	900 / 1500 / 2100
Chrysene	ND	19 J	88000
Fluoranthene	ND	28 J	3100000
Phenanthrene	ND	13 J	---
Pyrene	ND	23 J	2300000
Total Metals (mg/kg)			
Arsenic, Total	6.9	9.2	11.3 / 13
Barium, Total	53	84	1500
Beryllium, Total	0.66	0.89	22
Cadmium, Total	0.038 J	ND	5.2
Calcium, Total	56000 J	7600 J	---
Chromium, Total	18	24	21
Cobalt, Total	9.9	11	20
Copper, Total	20	29	2900
Iron, Total	18000 J+	25000 J+	15000 / 15900
Lead, Total	11 J	15 J	107
Magnesium, Total	30000 J	7900 J	325000
Manganese, Total	480 J	510 J	630 / 636
Mercury, Total	0.015 J	0.04	0.89
Nickel, Total	24	34	100
Potassium, Total	3700 J+	2800 J+	---
Sodium, Total	1500	1500	---
Thallium, Total	0.63	1.1	2.6
Vanadium, Total	22	27	550
Zinc, Total	42 J-	76 J-	5100
TCLP Metals (mg/l)			
Barium, TCLP	0.41 J	0.32 J	2
Cadmium, TCLP	0.0021 J	ND	0.005
Cobalt, TCLP	0.05	ND	1
Copper, TCLP	0.03	0.079	0.65
Iron, TCLP	0.23	ND	5
Lead, TCLP	ND	0.014	0.0075
Manganese, TCLP	5.4 J+	0.98 J+	0.15
Nickel, TCLP	0.046	ND	0.1
Zinc, TCLP	0.049 J	0.066 J	5
SPLP Metals (mg/l)			
Arsenic, SPLP	0.059	0.066	0.05
Barium, SPLP	0.49 J	0.65	2
Beryllium, SPLP	0.0068	0.0085	0.004
Chromium, SPLP	0.16	0.21	0.1
Cobalt, SPLP	0.051	0.063	1
Copper, SPLP	0.21	0.22	0.65
Iron, SPLP	150 J+	200 J+	5
Lead, SPLP	0.078	0.09	0.0075
Manganese, SPLP	1.1	1.3	0.15
Nickel, SPLP	0.17	0.23	0.1
Zinc, SPLP	0.42	0.51	5

Summary Table of ISGS Site No. 2668A-63
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 346: US Route 41 (Skokie Highway) from IL Route 21 to West Park Avenue
Gurnee, Park City, Waukegan, and North Chicago, Lake County, Illinois

Notes:

--- - not applicable or value not available.


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

ND - Constituent not detected above the reporting limit.

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: 500-90936-1
Client Project/Site: IDOT - Lake County - WO 001

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

Attn: Mr. S. Babusukumar



Authorized for release by:
1/26/2015 11:24:08 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.

- 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 - Lake County - WO 001

TestAmerica Job ID: 500-90936-1

Client Sample ID: LT-2(0-3)-011615

Lab Sample ID: 500-90936-16

Date Collected: 01/16/15 11:30

Matrix: Solid

Date Received: 01/16/15 16:00

Percent Solids: 84.4

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	6.6		5.9	2.6	ug/Kg	☼		01/21/15 19:22	1
Benzene	<5.9		5.9	0.81	ug/Kg	☼		01/21/15 19:22	1
Bromodichloromethane	<5.9		5.9	1.0	ug/Kg	☼		01/21/15 19:22	1
Bromoform	<5.9		5.9	1.4	ug/Kg	☼		01/21/15 19:22	1
Bromomethane	<5.9		5.9	1.8	ug/Kg	☼		01/21/15 19:22	1
Carbon disulfide	<5.9		5.9	0.88	ug/Kg	☼		01/21/15 19:22	1
Carbon tetrachloride	<5.9		5.9	1.1	ug/Kg	☼		01/21/15 19:22	1
Chlorobenzene	<5.9		5.9	0.60	ug/Kg	☼		01/21/15 19:22	1
Chloroethane	<5.9		5.9	1.6	ug/Kg	☼		01/21/15 19:22	1
Chloroform	<5.9		5.9	0.68	ug/Kg	☼		01/21/15 19:22	1
Chloromethane	<5.9		5.9	1.2	ug/Kg	☼		01/21/15 19:22	1
cis-1,2-Dichloroethene	<5.9		5.9	0.84	ug/Kg	☼		01/21/15 19:22	1
cis-1,3-Dichloropropene	<5.9		5.9	0.78	ug/Kg	☼		01/21/15 19:22	1
Dibromochloromethane	<5.9		5.9	1.0	ug/Kg	☼		01/21/15 19:22	1
1,1-Dichloroethane	<5.9		5.9	0.94	ug/Kg	☼		01/21/15 19:22	1
1,2-Dichloroethane	<5.9		5.9	0.88	ug/Kg	☼		01/21/15 19:22	1
1,1-Dichloroethene	<5.9		5.9	0.96	ug/Kg	☼		01/21/15 19:22	1
1,2-Dichloropropane	<5.9		5.9	0.90	ug/Kg	☼		01/21/15 19:22	1
1,3-Dichloropropene, Total	<5.9		5.9	0.78	ug/Kg	☼		01/21/15 19:22	1
Ethylbenzene	<5.9		5.9	1.2	ug/Kg	☼		01/21/15 19:22	1
2-Hexanone	<5.9		5.9	1.7	ug/Kg	☼		01/21/15 19:22	1
Methylene Chloride	<5.9		5.9	1.6	ug/Kg	☼		01/21/15 19:22	1
Methyl Ethyl Ketone	<5.9		5.9	2.1	ug/Kg	☼		01/21/15 19:22	1
methyl isobutyl ketone	<5.9		5.9	1.6	ug/Kg	☼		01/21/15 19:22	1
Methyl tert-butyl ether	<5.9		5.9	0.98	ug/Kg	☼		01/21/15 19:22	1
Styrene	<5.9		5.9	0.78	ug/Kg	☼		01/21/15 19:22	1
1,1,1,2-Tetrachloroethane	<5.9		5.9	1.2	ug/Kg	☼		01/21/15 19:22	1
Tetrachloroethene	<5.9		5.9	0.90	ug/Kg	☼		01/21/15 19:22	1
Toluene	<5.9		5.9	0.83	ug/Kg	☼		01/21/15 19:22	1
trans-1,2-Dichloroethene	<5.9		5.9	0.81	ug/Kg	☼		01/21/15 19:22	1
trans-1,3-Dichloropropene	<5.9		5.9	1.1	ug/Kg	☼		01/21/15 19:22	1
1,1,1-Trichloroethane	<5.9		5.9	0.88	ug/Kg	☼		01/21/15 19:22	1
1,1,2-Trichloroethane	<5.9		5.9	0.81	ug/Kg	☼		01/21/15 19:22	1
Trichloroethene	<5.9		5.9	0.98	ug/Kg	☼		01/21/15 19:22	1
Vinyl chloride	<5.9		5.9	1.2	ug/Kg	☼		01/21/15 19:22	1
Xylenes, Total	<12		12	0.54	ug/Kg	☼		01/21/15 19:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122		01/21/15 19:22	1
Dibromofluoromethane	109		75 - 120		01/21/15 19:22	1
1,2-Dichloroethane-d4 (Surr)	118		70 - 134		01/21/15 19:22	1
Toluene-d8 (Surr)	94		75 - 122		01/21/15 19:22	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	☼	01/20/15 07:14	01/21/15 23:23	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	01/20/15 07:14	01/21/15 23:23	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	01/20/15 07:14	01/21/15 23:23	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	01/20/15 07:14	01/21/15 23:23	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	01/20/15 07:14	01/21/15 23:23	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90936-1

Client Sample ID: LT-2(0-3)-011615

Lab Sample ID: 500-90936-16

Date Collected: 01/16/15 11:30

Matrix: Solid

Date Received: 01/16/15 16:00

Percent Solids: 84.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<380		380	87	ug/Kg	☼	01/20/15 07:14	01/21/15 23:23	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	01/20/15 07:14	01/21/15 23:23	1
2,4-Dichlorophenol	<380		380	90	ug/Kg	☼	01/20/15 07:14	01/21/15 23:23	1
2,4-Dimethylphenol	<380		380	140	ug/Kg	☼	01/20/15 07:14	01/21/15 23:23	1
2,4-Dinitrophenol	<770		770	670	ug/Kg	☼	01/20/15 07:14	01/21/15 23:23	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	01/20/15 07:14	01/21/15 23:23	1
2,6-Dinitrotoluene	<190		190	75	ug/Kg	☼	01/20/15 07:14	01/21/15 23:23	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	01/20/15 07:14	01/21/15 23:23	1
2-Chlorophenol	<190		190	65	ug/Kg	☼	01/20/15 07:14	01/21/15 23:23	1
2-Methylnaphthalene	<38		38	7.0	ug/Kg	☼	01/20/15 07:14	01/21/15 23:23	1
2-Methylphenol	<190		190	61	ug/Kg	☼	01/20/15 07:14	01/21/15 23:23	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	01/20/15 07:14	01/21/15 23:23	1
2-Nitrophenol	<380		380	90	ug/Kg	☼	01/20/15 07:14	01/21/15 23:23	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	01/20/15 07:14	01/21/15 23:23	1
3,3'-Dichlorobenzidine	<190		190	53	ug/Kg	☼	01/20/15 07:14	01/21/15 23:23	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	01/20/15 07:14	01/21/15 23:23	1
4,6-Dinitro-2-methylphenol	<380		380	310	ug/Kg	☼	01/20/15 07:14	01/21/15 23:23	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	01/20/15 07:14	01/21/15 23:23	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	01/20/15 07:14	01/21/15 23:23	1
4-Chloroaniline	<770		770	180	ug/Kg	☼	01/20/15 07:14	01/21/15 23:23	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	01/20/15 07:14	01/21/15 23:23	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	01/20/15 07:14	01/21/15 23:23	1
4-Nitrophenol	<770		770	360	ug/Kg	☼	01/20/15 07:14	01/21/15 23:23	1
Acenaphthene	<38		38	6.8	ug/Kg	☼	01/20/15 07:14	01/21/15 23:23	1
Acenaphthylene	<38		38	5.0	ug/Kg	☼	01/20/15 07:14	01/21/15 23:23	1
Anthracene	<38		38	6.4	ug/Kg	☼	01/20/15 07:14	01/21/15 23:23	1
Benzo[a]anthracene	12 J		38	5.1	ug/Kg	☼	01/20/15 07:14	01/21/15 23:23	1
Benzo[a]pyrene	13 J		38	7.4	ug/Kg	☼	01/20/15 07:14	01/21/15 23:23	1
Benzo[b]fluoranthene	20 J		38	8.2	ug/Kg	☼	01/20/15 07:14	01/21/15 23:23	1
Benzo[g,h,i]perylene	<38		38	12	ug/Kg	☼	01/20/15 07:14	01/21/15 23:23	1
Benzo[k]fluoranthene	<38		38	11	ug/Kg	☼	01/20/15 07:14	01/21/15 23:23	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	01/20/15 07:14	01/21/15 23:23	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	01/20/15 07:14	01/21/15 23:23	1
Bis(2-ethylhexyl) phthalate	<190		190	69	ug/Kg	☼	01/20/15 07:14	01/21/15 23:23	1
Butyl benzyl phthalate	<190		190	72	ug/Kg	☼	01/20/15 07:14	01/21/15 23:23	1
Carbazole	<190		190	98	ug/Kg	☼	01/20/15 07:14	01/21/15 23:23	1
Chrysene	19 J		38	10	ug/Kg	☼	01/20/15 07:14	01/21/15 23:23	1
Dibenz(a,h)anthracene	<38		38	7.4	ug/Kg	☼	01/20/15 07:14	01/21/15 23:23	1
Dibenzofuran	<190		190	45	ug/Kg	☼	01/20/15 07:14	01/21/15 23:23	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	01/20/15 07:14	01/21/15 23:23	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	01/20/15 07:14	01/21/15 23:23	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	01/20/15 07:14	01/21/15 23:23	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	01/20/15 07:14	01/21/15 23:23	1
Fluoranthene	28 J		38	7.1	ug/Kg	☼	01/20/15 07:14	01/21/15 23:23	1
Fluorene	<38		38	5.3	ug/Kg	☼	01/20/15 07:14	01/21/15 23:23	1
Hexachlorobenzene	<77		77	8.8	ug/Kg	☼	01/20/15 07:14	01/21/15 23:23	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	01/20/15 07:14	01/21/15 23:23	1
Hexachlorocyclopentadiene	<770		770	220	ug/Kg	☼	01/20/15 07:14	01/21/15 23:23	1
Hexachloroethane	<190		190	58	ug/Kg	☼	01/20/15 07:14	01/21/15 23:23	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90936-1

Client Sample ID: LT-2(0-3)-011615

Lab Sample ID: 500-90936-16

Date Collected: 01/16/15 11:30

Matrix: Solid

Date Received: 01/16/15 16:00

Percent Solids: 84.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<38		38	9.9	ug/Kg	☼	01/20/15 07:14	01/21/15 23:23	1
Isophorone	<190		190	43	ug/Kg	☼	01/20/15 07:14	01/21/15 23:23	1
Naphthalene	<38		38	5.9	ug/Kg	☼	01/20/15 07:14	01/21/15 23:23	1
Nitrobenzene	<38		38	9.5	ug/Kg	☼	01/20/15 07:14	01/21/15 23:23	1
N-Nitrosodi-n-propylamine	<190		190	46	ug/Kg	☼	01/20/15 07:14	01/21/15 23:23	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	01/20/15 07:14	01/21/15 23:23	1
Pentachlorophenol	<770		770	610	ug/Kg	☼	01/20/15 07:14	01/21/15 23:23	1
Phenanthrene	13	J	38	5.3	ug/Kg	☼	01/20/15 07:14	01/21/15 23:23	1
Phenol	<190		190	84	ug/Kg	☼	01/20/15 07:14	01/21/15 23:23	1
Pyrene	23	J	38	7.6	ug/Kg	☼	01/20/15 07:14	01/21/15 23:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	53		35 - 137				01/20/15 07:14	01/21/15 23:23	1
2-Fluorobiphenyl	50		25 - 119				01/20/15 07:14	01/21/15 23:23	1
2-Fluorophenol	49		25 - 110				01/20/15 07:14	01/21/15 23:23	1
Nitrobenzene-d5	44		25 - 115				01/20/15 07:14	01/21/15 23:23	1
Phenol-d5	52		31 - 110				01/20/15 07:14	01/21/15 23:23	1
Terphenyl-d14	64		36 - 134				01/20/15 07:14	01/21/15 23:23	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/21/15 08:45	01/22/15 03:00	1
Barium	0.32	J	0.50	0.050	mg/L		01/21/15 08:45	01/22/15 03:00	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/21/15 08:45	01/22/15 03:00	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/21/15 08:45	01/22/15 03:00	1
Chromium	<0.025		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 03:00	1
Cobalt	<0.025		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 03:00	1
Copper	0.079		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 03:00	1
Iron	<0.20		0.20	0.20	mg/L		01/21/15 08:45	01/22/15 03:00	1
Lead	0.014		0.0075	0.0075	mg/L		01/21/15 08:45	01/22/15 03:00	1
Manganese	0.98		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 03:00	1
Nickel	<0.025		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 03:00	1
Selenium	<0.050		0.050	0.020	mg/L		01/21/15 08:45	01/22/15 03:00	1
Silver	<0.025		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 03:00	1
Zinc	0.066	J	0.10	0.020	mg/L		01/21/15 08:45	01/22/15 03:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.066		0.050	0.010	mg/L		01/21/15 09:30	01/22/15 16:41	1
Barium	0.65		0.50	0.050	mg/L		01/21/15 09:30	01/22/15 16:41	1
Beryllium	0.0085		0.0040	0.0040	mg/L		01/21/15 09:30	01/22/15 16:41	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/21/15 09:30	01/22/15 16:41	1
Chromium	0.21		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 16:41	1
Cobalt	0.063		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 16:41	1
Copper	0.22		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 16:41	1
Iron	200		0.20	0.20	mg/L		01/21/15 09:30	01/22/15 16:41	1
Lead	0.090		0.0075	0.0075	mg/L		01/21/15 09:30	01/22/15 16:41	1
Manganese	1.3		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 16:41	1
Nickel	0.23		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 16:41	1
Selenium	<0.050		0.050	0.020	mg/L		01/21/15 09:30	01/22/15 16:41	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90936-1

Client Sample ID: LT-2(0-3)-011615

Lab Sample ID: 500-90936-16

Date Collected: 01/16/15 11:30

Matrix: Solid

Date Received: 01/16/15 16:00

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		01/21/15 09:30	01/22/15 16:41	1
Zinc	0.51		0.10	0.020	mg/L		01/21/15 09:30	01/22/15 16:41	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.59	J B	1.1	0.23	mg/Kg	☼	01/19/15 16:20	01/21/15 05:07	1
Arsenic	9.2		0.56	0.26	mg/Kg	☼	01/19/15 16:20	01/21/15 05:07	1
Barium	84		0.56	0.10	mg/Kg	☼	01/19/15 16:20	01/21/15 05:07	1
Beryllium	0.89		0.22	0.048	mg/Kg	☼	01/19/15 16:20	01/21/15 05:07	1
Cadmium	<0.11		0.11	0.032	mg/Kg	☼	01/19/15 16:20	01/21/15 20:24	1
Calcium	7600		11	3.6	mg/Kg	☼	01/19/15 16:20	01/21/15 05:07	1
Chromium	24		0.56	0.096	mg/Kg	☼	01/19/15 16:20	01/21/15 05:07	1
Cobalt	11		0.28	0.063	mg/Kg	☼	01/19/15 16:20	01/21/15 05:07	1
Copper	29		0.56	0.12	mg/Kg	☼	01/19/15 16:20	01/21/15 05:07	1
Iron	25000		11	4.3	mg/Kg	☼	01/19/15 16:20	01/21/15 05:07	1
Lead	15		0.28	0.14	mg/Kg	☼	01/19/15 16:20	01/21/15 05:07	1
Magnesium	7900		5.6	2.3	mg/Kg	☼	01/19/15 16:20	01/21/15 05:07	1
Manganese	510		0.56	0.11	mg/Kg	☼	01/19/15 16:20	01/21/15 05:07	1
Nickel	34		0.56	0.15	mg/Kg	☼	01/19/15 16:20	01/21/15 05:07	1
Potassium	2800		28	4.6	mg/Kg	☼	01/19/15 16:20	01/21/15 05:07	1
Selenium	<0.56		0.56	0.28	mg/Kg	☼	01/19/15 16:20	01/21/15 05:07	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	01/19/15 16:20	01/21/15 05:07	1
Sodium	1500		56	7.4	mg/Kg	☼	01/19/15 16:20	01/21/15 05:07	1
Thallium	1.1		0.56	0.27	mg/Kg	☼	01/19/15 16:20	01/21/15 05:07	1
Vanadium	27		0.28	0.081	mg/Kg	☼	01/19/15 16:20	01/21/15 05:07	1
Zinc	76	B	1.1	0.35	mg/Kg	☼	01/19/15 16:20	01/21/15 05:07	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		01/21/15 11:30	01/22/15 09:54	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		01/21/15 11:30	01/22/15 10:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	40		19	6.8	ug/Kg	☼	01/19/15 14:30	01/20/15 10:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.05		0.200	0.200	SU			01/21/15 12:58	1

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90936-1

Client Sample ID: LT-1(0-3)-011615

Lab Sample ID: 500-90936-17

Date Collected: 01/16/15 11:50

Matrix: Solid

Date Received: 01/16/15 16:00

Percent Solids: 86.9

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.8		5.8	2.5	ug/Kg	*		01/21/15 19:46	1
Benzene	<5.8		5.8	0.79	ug/Kg	*		01/21/15 19:46	1
Bromodichloromethane	<5.8		5.8	0.99	ug/Kg	*		01/21/15 19:46	1
Bromoform	<5.8		5.8	1.3	ug/Kg	*		01/21/15 19:46	1
Bromomethane	<5.8		5.8	1.7	ug/Kg	*		01/21/15 19:46	1
Carbon disulfide	<5.8		5.8	0.86	ug/Kg	*		01/21/15 19:46	1
Carbon tetrachloride	<5.8		5.8	1.0	ug/Kg	*		01/21/15 19:46	1
Chlorobenzene	<5.8		5.8	0.58	ug/Kg	*		01/21/15 19:46	1
Chloroethane	<5.8		5.8	1.6	ug/Kg	*		01/21/15 19:46	1
Chloroform	<5.8		5.8	0.66	ug/Kg	*		01/21/15 19:46	1
Chloromethane	<5.8		5.8	1.2	ug/Kg	*		01/21/15 19:46	1
cis-1,2-Dichloroethene	<5.8		5.8	0.81	ug/Kg	*		01/21/15 19:46	1
cis-1,3-Dichloropropene	<5.8		5.8	0.76	ug/Kg	*		01/21/15 19:46	1
Dibromochloromethane	<5.8		5.8	1.0	ug/Kg	*		01/21/15 19:46	1
1,1-Dichloroethane	<5.8		5.8	0.91	ug/Kg	*		01/21/15 19:46	1
1,2-Dichloroethane	<5.8		5.8	0.85	ug/Kg	*		01/21/15 19:46	1
1,1-Dichloroethene	<5.8		5.8	0.93	ug/Kg	*		01/21/15 19:46	1
1,2-Dichloropropane	<5.8		5.8	0.87	ug/Kg	*		01/21/15 19:46	1
1,3-Dichloropropene, Total	<5.8		5.8	0.76	ug/Kg	*		01/21/15 19:46	1
Ethylbenzene	<5.8		5.8	1.2	ug/Kg	*		01/21/15 19:46	1
2-Hexanone	<5.8		5.8	1.7	ug/Kg	*		01/21/15 19:46	1
Methylene Chloride	<5.8		5.8	1.6	ug/Kg	*		01/21/15 19:46	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	*		01/21/15 19:46	1
methyl isobutyl ketone	<5.8		5.8	1.5	ug/Kg	*		01/21/15 19:46	1
Methyl tert-butyl ether	<5.8		5.8	0.95	ug/Kg	*		01/21/15 19:46	1
Styrene	<5.8		5.8	0.76	ug/Kg	*		01/21/15 19:46	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	1.2	ug/Kg	*		01/21/15 19:46	1
Tetrachloroethene	<5.8		5.8	0.88	ug/Kg	*		01/21/15 19:46	1
Toluene	<5.8		5.8	0.81	ug/Kg	*		01/21/15 19:46	1
trans-1,2-Dichloroethene	<5.8		5.8	0.79	ug/Kg	*		01/21/15 19:46	1
trans-1,3-Dichloropropene	<5.8		5.8	1.0	ug/Kg	*		01/21/15 19:46	1
1,1,1-Trichloroethane	<5.8		5.8	0.86	ug/Kg	*		01/21/15 19:46	1
1,1,2-Trichloroethane	<5.8		5.8	0.79	ug/Kg	*		01/21/15 19:46	1
Trichloroethene	<5.8		5.8	0.95	ug/Kg	*		01/21/15 19:46	1
Vinyl chloride	<5.8		5.8	1.2	ug/Kg	*		01/21/15 19:46	1
Xylenes, Total	<12		12	0.52	ug/Kg	*		01/21/15 19:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122		01/21/15 19:46	1
Dibromofluoromethane	107		75 - 120		01/21/15 19:46	1
1,2-Dichloroethane-d4 (Surr)	116		70 - 134		01/21/15 19:46	1
Toluene-d8 (Surr)	93		75 - 122		01/21/15 19:46	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	*	01/20/15 07:14	01/21/15 23:45	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	*	01/20/15 07:14	01/21/15 23:45	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	*	01/20/15 07:14	01/21/15 23:45	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	*	01/20/15 07:14	01/21/15 23:45	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	*	01/20/15 07:14	01/21/15 23:45	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90936-1

Client Sample ID: LT-1(0-3)-011615

Lab Sample ID: 500-90936-17

Date Collected: 01/16/15 11:50

Matrix: Solid

Date Received: 01/16/15 16:00

Percent Solids: 86.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	86	ug/Kg	☼	01/20/15 07:14	01/21/15 23:45	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	01/20/15 07:14	01/21/15 23:45	1
2,4-Dichlorophenol	<370		370	89	ug/Kg	☼	01/20/15 07:14	01/21/15 23:45	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	01/20/15 07:14	01/21/15 23:45	1
2,4-Dinitrophenol	<760		760	660	ug/Kg	☼	01/20/15 07:14	01/21/15 23:45	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	01/20/15 07:14	01/21/15 23:45	1
2,6-Dinitrotoluene	<190		190	74	ug/Kg	☼	01/20/15 07:14	01/21/15 23:45	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	01/20/15 07:14	01/21/15 23:45	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	01/20/15 07:14	01/21/15 23:45	1
2-Methylnaphthalene	<37		37	6.9	ug/Kg	☼	01/20/15 07:14	01/21/15 23:45	1
2-Methylphenol	<190		190	60	ug/Kg	☼	01/20/15 07:14	01/21/15 23:45	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	01/20/15 07:14	01/21/15 23:45	1
2-Nitrophenol	<370		370	89	ug/Kg	☼	01/20/15 07:14	01/21/15 23:45	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	01/20/15 07:14	01/21/15 23:45	1
3,3'-Dichlorobenzidine	<190		190	53	ug/Kg	☼	01/20/15 07:14	01/21/15 23:45	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	01/20/15 07:14	01/21/15 23:45	1
4,6-Dinitro-2-methylphenol	<370		370	300	ug/Kg	☼	01/20/15 07:14	01/21/15 23:45	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	01/20/15 07:14	01/21/15 23:45	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	01/20/15 07:14	01/21/15 23:45	1
4-Chloroaniline	<760		760	180	ug/Kg	☼	01/20/15 07:14	01/21/15 23:45	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	01/20/15 07:14	01/21/15 23:45	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	01/20/15 07:14	01/21/15 23:45	1
4-Nitrophenol	<760		760	360	ug/Kg	☼	01/20/15 07:14	01/21/15 23:45	1
Acenaphthene	<37		37	6.7	ug/Kg	☼	01/20/15 07:14	01/21/15 23:45	1
Acenaphthylene	<37		37	4.9	ug/Kg	☼	01/20/15 07:14	01/21/15 23:45	1
Anthracene	<37		37	6.3	ug/Kg	☼	01/20/15 07:14	01/21/15 23:45	1
Benzo[a]anthracene	<37		37	5.0	ug/Kg	☼	01/20/15 07:14	01/21/15 23:45	1
Benzo[a]pyrene	<37		37	7.3	ug/Kg	☼	01/20/15 07:14	01/21/15 23:45	1
Benzo[b]fluoranthene	<37		37	8.1	ug/Kg	☼	01/20/15 07:14	01/21/15 23:45	1
Benzo[g,h,i]perylene	<37		37	12	ug/Kg	☼	01/20/15 07:14	01/21/15 23:45	1
Benzo[k]fluoranthene	<37		37	11	ug/Kg	☼	01/20/15 07:14	01/21/15 23:45	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	01/20/15 07:14	01/21/15 23:45	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	01/20/15 07:14	01/21/15 23:45	1
Bis(2-ethylhexyl) phthalate	<190		190	69	ug/Kg	☼	01/20/15 07:14	01/21/15 23:45	1
Butyl benzyl phthalate	<190		190	71	ug/Kg	☼	01/20/15 07:14	01/21/15 23:45	1
Carbazole	<190		190	97	ug/Kg	☼	01/20/15 07:14	01/21/15 23:45	1
Chrysene	<37		37	10	ug/Kg	☼	01/20/15 07:14	01/21/15 23:45	1
Dibenz(a,h)anthracene	<37		37	7.2	ug/Kg	☼	01/20/15 07:14	01/21/15 23:45	1
Dibenzofuran	<190		190	44	ug/Kg	☼	01/20/15 07:14	01/21/15 23:45	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	01/20/15 07:14	01/21/15 23:45	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	01/20/15 07:14	01/21/15 23:45	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	01/20/15 07:14	01/21/15 23:45	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	01/20/15 07:14	01/21/15 23:45	1
Fluoranthene	<37		37	7.0	ug/Kg	☼	01/20/15 07:14	01/21/15 23:45	1
Fluorene	<37		37	5.3	ug/Kg	☼	01/20/15 07:14	01/21/15 23:45	1
Hexachlorobenzene	<76		76	8.7	ug/Kg	☼	01/20/15 07:14	01/21/15 23:45	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	01/20/15 07:14	01/21/15 23:45	1
Hexachlorocyclopentadiene	<760		760	220	ug/Kg	☼	01/20/15 07:14	01/21/15 23:45	1
Hexachloroethane	<190		190	57	ug/Kg	☼	01/20/15 07:14	01/21/15 23:45	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90936-1

Client Sample ID: LT-1(0-3)-011615

Lab Sample ID: 500-90936-17

Date Collected: 01/16/15 11:50

Matrix: Solid

Date Received: 01/16/15 16:00

Percent Solids: 86.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<37		37	9.7	ug/Kg	☼	01/20/15 07:14	01/21/15 23:45	1
Isophorone	<190		190	42	ug/Kg	☼	01/20/15 07:14	01/21/15 23:45	1
Naphthalene	<37		37	5.8	ug/Kg	☼	01/20/15 07:14	01/21/15 23:45	1
Nitrobenzene	<37		37	9.4	ug/Kg	☼	01/20/15 07:14	01/21/15 23:45	1
N-Nitrosodi-n-propylamine	<190		190	46	ug/Kg	☼	01/20/15 07:14	01/21/15 23:45	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	01/20/15 07:14	01/21/15 23:45	1
Pentachlorophenol	<760		760	600	ug/Kg	☼	01/20/15 07:14	01/21/15 23:45	1
Phenanthrene	<37		37	5.2	ug/Kg	☼	01/20/15 07:14	01/21/15 23:45	1
Phenol	<190		190	83	ug/Kg	☼	01/20/15 07:14	01/21/15 23:45	1
Pyrene	<37		37	7.5	ug/Kg	☼	01/20/15 07:14	01/21/15 23:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	43		35 - 137				01/20/15 07:14	01/21/15 23:45	1
2-Fluorobiphenyl	41		25 - 119				01/20/15 07:14	01/21/15 23:45	1
2-Fluorophenol	40		25 - 110				01/20/15 07:14	01/21/15 23:45	1
Nitrobenzene-d5	37		25 - 115				01/20/15 07:14	01/21/15 23:45	1
Phenol-d5	43		31 - 110				01/20/15 07:14	01/21/15 23:45	1
Terphenyl-d14	57		36 - 134				01/20/15 07:14	01/21/15 23:45	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		01/21/15 08:45	01/22/15 00:31	1
Barium	0.41	J	0.50	0.050	mg/L		01/21/15 08:45	01/22/15 00:31	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/21/15 08:45	01/22/15 00:31	1
Cadmium	0.0021	J	0.0050	0.0020	mg/L		01/21/15 08:45	01/22/15 00:31	1
Chromium	<0.025		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 00:31	1
Cobalt	0.050		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 00:31	1
Copper	0.030		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 00:31	1
Iron	0.23		0.20	0.20	mg/L		01/21/15 08:45	01/22/15 00:31	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/21/15 08:45	01/22/15 00:31	1
Manganese	5.4		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 00:31	1
Nickel	0.046		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 00:31	1
Selenium	<0.050		0.050	0.020	mg/L		01/21/15 08:45	01/22/15 00:31	1
Silver	<0.025		0.025	0.010	mg/L		01/21/15 08:45	01/22/15 00:31	1
Zinc	0.049	J	0.10	0.020	mg/L		01/21/15 08:45	01/22/15 00:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.059		0.050	0.010	mg/L		01/21/15 09:30	01/22/15 16:47	1
Barium	0.49	J	0.50	0.050	mg/L		01/21/15 09:30	01/22/15 16:47	1
Beryllium	0.0068		0.0040	0.0040	mg/L		01/21/15 09:30	01/22/15 16:47	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/21/15 09:30	01/22/15 16:47	1
Chromium	0.16		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 16:47	1
Cobalt	0.051		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 16:47	1
Copper	0.21		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 16:47	1
Iron	150		0.20	0.20	mg/L		01/21/15 09:30	01/22/15 16:47	1
Lead	0.078		0.0075	0.0075	mg/L		01/21/15 09:30	01/22/15 16:47	1
Manganese	1.1		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 16:47	1
Nickel	0.17		0.025	0.010	mg/L		01/21/15 09:30	01/22/15 16:47	1
Selenium	<0.050		0.050	0.020	mg/L		01/21/15 09:30	01/22/15 16:47	1

TestAmerica Chicago

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90936-1

Client Sample ID: LT-1(0-3)-011615

Lab Sample ID: 500-90936-17

Date Collected: 01/16/15 11:50

Matrix: Solid

Date Received: 01/16/15 16:00

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		01/21/15 09:30	01/22/15 16:47	1
Zinc	0.42		0.10	0.020	mg/L		01/21/15 09:30	01/22/15 16:47	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.59	J B	1.1	0.24	mg/Kg	☼	01/19/15 16:20	01/21/15 05:13	1
Arsenic	6.9		0.57	0.26	mg/Kg	☼	01/19/15 16:20	01/21/15 05:13	1
Barium	53		0.57	0.10	mg/Kg	☼	01/19/15 16:20	01/21/15 05:13	1
Beryllium	0.66		0.23	0.050	mg/Kg	☼	01/19/15 16:20	01/21/15 05:13	1
Cadmium	0.038	J	0.11	0.033	mg/Kg	☼	01/19/15 16:20	01/21/15 20:29	1
Calcium	56000		11	3.7	mg/Kg	☼	01/19/15 16:20	01/21/15 05:13	1
Chromium	18		0.57	0.098	mg/Kg	☼	01/19/15 16:20	01/21/15 05:13	1
Cobalt	9.9		0.29	0.065	mg/Kg	☼	01/19/15 16:20	01/21/15 05:13	1
Copper	20		0.57	0.12	mg/Kg	☼	01/19/15 16:20	01/21/15 05:13	1
Iron	18000		11	4.4	mg/Kg	☼	01/19/15 16:20	01/21/15 05:13	1
Lead	11		0.29	0.14	mg/Kg	☼	01/19/15 16:20	01/21/15 05:13	1
Magnesium	30000		5.7	2.3	mg/Kg	☼	01/19/15 16:20	01/21/15 05:13	1
Manganese	480		0.57	0.11	mg/Kg	☼	01/19/15 16:20	01/21/15 05:13	1
Nickel	24		0.57	0.15	mg/Kg	☼	01/19/15 16:20	01/21/15 05:13	1
Potassium	3700		29	4.7	mg/Kg	☼	01/19/15 16:20	01/21/15 05:13	1
Selenium	<0.57		0.57	0.28	mg/Kg	☼	01/19/15 16:20	01/21/15 05:13	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	01/19/15 16:20	01/21/15 05:13	1
Sodium	1500		57	7.5	mg/Kg	☼	01/19/15 16:20	01/21/15 05:13	1
Thallium	0.63		0.57	0.28	mg/Kg	☼	01/19/15 16:20	01/21/15 05:13	1
Vanadium	22		0.29	0.083	mg/Kg	☼	01/19/15 16:20	01/21/15 05:13	1
Zinc	42	B	1.1	0.36	mg/Kg	☼	01/19/15 16:20	01/21/15 05:13	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		01/21/15 11:30	01/22/15 09:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		01/21/15 11:30	01/22/15 10:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	15	J	17	6.1	ug/Kg	☼	01/19/15 14:30	01/20/15 10:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.48		0.200	0.200	SU			01/21/15 13:06	1

Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90936-1

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.
F1	MS and/or MSD Recovery exceeds the control limits

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD Recovery exceeds the control limits
F2	MS/MSD RPD exceeds control limits

Glossary

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

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake County - WO 001

TestAmerica Job ID: 500-90936-1

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-15

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

Analysis Method	Prep Method	Matrix	Analyte
7470A	7470A	Solid	Mercury
8260B		Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids



Report To (optional)
Contact: S Babusukumar
Company: Weston Solutions
Address: 300 Plaza Circle Sk 202
Address: Mundelein, IL 60060
Phone: (224) 864-7200
Fax:
E-Mail:

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

Chain of Custody Record

Lab Job #: 500-90936
Chain of Custody Number:
Page 1 of 3
Temperature °C of Cooler: (3.9) (4.2)

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 #		Containers		Matrix		Comments			
Lab ID	MS/MSD	Sample ID	Date	Time	# of	Matrix	Matrix				
Weston				7	7	7	7	7			
IDOT 001											
Project Location/State		Lab Project #									
IL											
Sampler		Lab PM									
M. Strou		D. WRIGHT									
1		ROW-8 (0-3)-011515	1/15/15	1535	2	S	X	X	X	X	
2		ROW-7 (0-3)-011515		1540							
3		ROW-6 (0-3)-011515		1550							
4		ROW-5 (0-3)-011515		1600							
5		ROW-4 (0-3)-011515		1610							
6		A43-1 (0-3)-011515		1645							
7		ROW-15 (0-3)-011615	1/16/15	0830							
8		ROW-16 (0-3)-011615		0840							
9		ROW-16 (0-3)-011615		0840							
10		ROW-18 (0-3)-011615		0850							

Turnaround Time Required (Business Days)

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

Requested Due Date _____ Sample Disposal Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: <u>M. Strou</u> Company: <u>Weston</u> Date: <u>1/16/15</u> Time: <u>1420</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>1/16/15</u> Time: <u>1420</u>	Lab Courier: <u>TA</u>
Relinquished By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>1/16/15</u> Time: <u>1600</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>1/16/15</u> Time: <u>1600</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: S. Babusulekumar
Company: Weston Solutions
Address: 300 Plaza Circle Ste 202
Address: Mundelein, IL 60060
Phone: (224) 864-7200
Fax:
E-Mail:

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

Chain of Custody Record

Lab Job #: 500-90936

Chain of Custody Number: _____

Page 2 of 3

Temperature °C of Cooler: _____

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				
Sampler		Lab PM		# of Containers		Matrix		Comments		
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	Matrix	Matrix	Matrix	Matrix
11		ROW-19(0-3)-011615	1/16/15	0905	2	S	X	X	X	X
12		ROW-21(0-3)-011615		0935						
13		ROW-20(0-3)-011615		0950						
14		ROW-17(0-3)-011615		1100						
15		ROW-13(0-3)-011615		1110						
16		LT-2(0-3)-011615		1130						
17		LT-1(0-3)-011615		1150						
18		LL-2(0-3)-011615		1210						
19		LL-1(0-3)-011615		1225						
20		CL-1(0-3)-011615		1230						

Turnaround Time Required (Business Days)

___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days Standard 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>M. Straw</u> Company <u>Weston</u> Date <u>1/16/15</u> Time <u>1420</u>	Received By <u>[Signature]</u> Company <u>TA</u> Date <u>1/16/15</u> Time <u>1420</u>
Relinquished By <u>[Signature]</u> Company <u>TA</u> Date <u>1/16/15</u> Time <u>1600</u>	Received By <u>[Signature]</u> Company <u>TA</u> Date <u>1/16/15</u> Time <u>1600</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: