



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 541 (Grand Ave) at Fairfield Rd Office Phone Number, if available: \_\_\_\_\_

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

37900 Block of N. Fairfield Rd

City: Lake Villa 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: 42.415410315 Longitude: -88.108010275  
(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 541 (Grand Ave) at Fairfield Rd

Latitude: 42.415410315 Longitude: -88.108010275

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 CP-1, CP-4, CP-6, AND CP-7 WERE SAMPLED ADJACENT TO ISGS SITE No. 2732-1. SEE FIGURES 3-1/3-3 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: 500-81071-1

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

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

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

Company Name: Illinois Department of Transportation

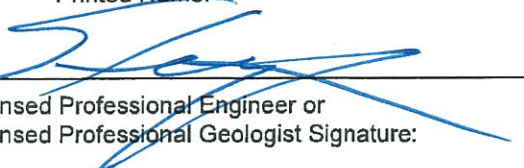
Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

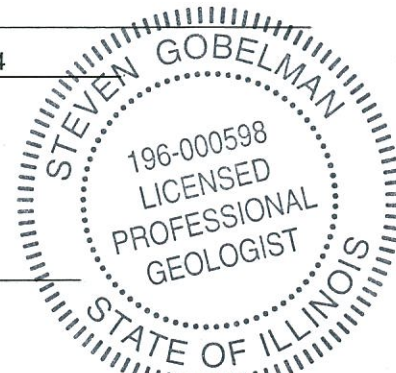
Phone: 217-785-4246

Steven Gobelman, P.E., L.P.G.

Printed Name:

  
 Licensed Professional Engineer or  
 Licensed Professional Geologist Signature:

2/20/19  
 Date:



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

**Summary Table of ISGS Site No. 2732-1**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAP 541 (IL Route 132; Grand Avenue) at Fairfield Road**  
**Unincorporated Lake County, Illinois**

Field Sample ID	CP-1(0-6)-072214	CP-1(0-6)-072214D	CP-1(6-12)-072214	CP-1(12-15)-072214	CP-4(0-6)-072214	Soil Reference Concentrations <sup>A</sup>
Sample Date	7/22/2014	7/22/2014	7/22/2014	7/22/2014	7/22/2014	
Location ID	CP-1	CP-1	CP-1	CP-1	CP-4	
Depth	0 - 6	0 - 6	6 - 12	12 - 15	0 - 6	
ISGS Site Number	2732-1	2732-1	2732-1	2732-1	2732-1	
<b>Parameter</b>						
Laboratory pH (standard units)	8.85	8.81	8.12	7.56	8.97	<6.25, >9.0
<b>VOCs (ug/kg)</b>	<b>No Exceedances</b>					
<b>SVOCs (ug/kg)</b>						
Benzo(a)pyrene	ND	ND	ND	ND	10 J	90 / 1300 / 2100
<b>Total Metals (mg/kg)</b>						
Arsenic, Total	8.3 J-	7.9 J-	7.8 J-	4.2 J-	9.6 J-	11.3/13.0
Barium, Total	44 J	36 J	43 J	75 J	48 J	1500
Beryllium, Total	0.53	0.44	0.53	0.2 J	0.54	22
Cadmium, Total	0.094 J	0.17 J	0.44 J	0.37 J	ND	5.2
Chromium, Total	14 J	12 J	15 J	5.7 J	16 J	21
Cobalt, Total	13	11	13	3.4	13	20
Copper, Total	25 J	22 J	25 J	15 J	26 J	2900
Iron, Total	20000 J	19000 J	20000 J	9300 J	24000 J	15000/15900
Lead, Total	17 J	14 J	15 J	2.4 J	19 J	107
Magnesium, Total	21000 J	29000 J	37000 J	11000 J	10000 J	325000
Manganese, Total	450 J	510 J	570 J	320 J	580 J	630/636
Mercury, Total	0.028 J	0.051 J	0.024	ND	0.034	0.89
Nickel, Total	27 J	25 J	30 J	11 J	27 J	100
Selenium, Total	ND	0.26 J	0.3 J	2.4 J-	ND	1.3
<b>TCLP Metals (mg/l)</b>						
Arsenic, TCLP	0.014 J	ND	ND	ND	ND	0.05
Barium, TCLP	0.48 J	0.5	0.52	0.38 J	0.42 J	2
Beryllium, TCLP	ND	ND	ND	ND	ND	0.004
Cadmium, TCLP	ND	0.0023 J	ND	ND	0.0021 J	0.005
Chromium, TCLP	ND	ND	ND	ND	ND	0.1
Cobalt, TCLP	0.063 J	0.01 J	ND	ND	ND	1
Copper, TCLP	ND	0.011 J	ND	0.079	0.023 J	0.65
Iron, TCLP	ND	0.28	ND	ND	ND	5
Lead, TCLP	0.59 J	ND	ND	ND	ND	0.0075
Manganese, TCLP	5.3	5.6	3.4	1.1	3.5	0.15
Mercury, TCLP	ND	ND	ND	ND	ND	0.002
Nickel, TCLP	0.045 J	0.014 J	ND	ND	0.014 J	0.1
Selenium, TCLP	ND	ND	ND	ND	ND	0.05
<b>SPLP Metals (mg/l)</b>						
Arsenic, SPLP	0.09	0.083	0.034 J	ND	0.11	0.05
Barium, SPLP	0.76	0.65	0.29 J	ND	0.55	2
Beryllium, SPLP	0.0092	0.0084	ND	ND	0.0089	0.004
Cadmium, SPLP	0.0067	0.0065	0.0024 J	ND	0.0036 J	0.005
Chromium, SPLP	0.22	0.2	0.089	ND	0.21	0.1
Cobalt, SPLP	0.1	0.095	0.041	ND	0.067	1
Copper, SPLP	0.31	0.29	0.11	ND	0.34	0.65
Iron, SPLP	250 J+	230 J+	94 J+	ND	270 J+	5
Lead, SPLP	0.23	0.25	0.08	ND	0.13	0.0075
Manganese, SPLP	2.7	2.5	0.74	ND	2.2	0.15
Mercury, SPLP	0.00031	0.00026	ND	ND	0.00063	0.002
Nickel, SPLP	0.26	0.24	0.11	ND	0.25	0.1
Selenium, SPLP	0.014 J	0.011 J	ND	ND	ND	0.05

**Summary Table of ISGS Site No. 2732-1**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAP 541 (IL Route 132; Grand Avenue) at Fairfield Road**  
**Unincorporated Lake County, Illinois**

Field Sample ID	CP-4(6-12)-072214	CP-4(12-19)-072214	CP-4(19-26)-072214	CP-6(0-4)-072214	CP-7(0-4)-072214	Soil Reference Concentrations <sup>A</sup>
Sample Date	7/22/2014	7/22/2014	7/22/2014	7/22/2014	7/22/2014	
Location ID	CP-4	CP-4	CP-4	CP-6	CP-7	
Depth	6 - 12	12 - 19	19 - 29	0 - 4	0 - 4	
ISGS Site Number	2732-1	2732-1	2732-1	2732-1	2732-1	
<b>Parameter</b>						
Laboratory pH (standard units)	8.16	7.46	8.16	7.96	8.56	<6.25, >9.0
<b>No Exceedances</b>						
<b>SVOCs (ug/kg)</b>						
Benzo(a)pyrene	120 J	ND	ND	15 J	9 J	90 / 1300 / 2100
<b>Total Metals (mg/kg)</b>						
Arsenic, Total	0.76 J-	10 J-	2.3 J-	6.4 J-	8.4 J-	11.3/13.0
Barium, Total	27 J	130 J	44 J	61 J	62 J	1500
Beryllium, Total	ND	1.5	0.47	0.51	0.73	22
Cadmium, Total	0.099 J	0.16 J	ND	1.4 J	ND	5.2
Chromium, Total	1.1 J	46 J	15 J	16 J	20 J	21
Cobalt, Total	0.66	37	11	13	15	20
Copper, Total	2.7 J	74 J	22 J	18 J	26 J	2900
Iron, Total	1500 J	56000 J	17000 J	15000 J	22000 J	15000/15900
Lead, Total	0.49 J	38 J	13 J	45 J	87 J	107
Magnesium, Total	1500 J	110000 J	32000 J	5300 J	13000 J	325000
Manganese, Total	140 J	1400 J	390 J	430 J	560 J	630/636
Mercury, Total	0.051	ND	0.02	0.028	0.038	0.89
Nickel, Total	2 J	90 J	28 J	19 J	35 J	100
Selenium, Total	0.67 J-	1.5 J	0.34 J	0.32 J	0.53 J	1.3
<b>TCLP Metals (mg/l)</b>						
Arsenic, TCLP	ND	ND	ND	ND	ND	0.05
Barium, TCLP	0.65	0.74	0.68	0.62	0.52	2
Beryllium, TCLP	ND	ND	ND	ND	ND	0.004
Cadmium, TCLP	0.0026 J	ND	0.002 J	0.0046 J	0.003 J	0.005
Chromium, TCLP	ND	ND	ND	ND	ND	0.1
Cobalt, TCLP	0.023 J	ND	0.013 J	0.03	0.03	1
Copper, TCLP	0.035	0.017 J	0.025	0.023 J	0.019 J	0.65
Iron, TCLP	0.22	ND	ND	0.76	0.56	5
Lead, TCLP	ND	ND	ND	0.027	0.062	0.0075
Manganese, TCLP	8.8	3.1	2.3	12	9.4	0.15
Mercury, TCLP	ND	ND	ND	ND	ND	0.002
Nickel, TCLP	0.024 J	0.01 J	0.054	0.026	0.037	0.1
Selenium, TCLP	ND	ND	ND	ND	ND	0.05
<b>SPLP Metals (mg/l)</b>						
Arsenic, SPLP	0.018 J	ND	ND	0.015 J	0.098	0.05
Barium, SPLP	0.29 J	0.061 J	0.052 J	0.29 J	1	2
Beryllium, SPLP	ND	ND	ND	ND	0.011	0.004
Cadmium, SPLP	ND	ND	ND	ND	0.0036 J	0.005
Chromium, SPLP	0.052	ND	ND	0.064	0.28	0.1
Cobalt, SPLP	0.023 J	ND	ND	0.02 J	0.098	1
Copper, SPLP	0.083	0.034	ND	0.082	0.35	0.65
Iron, SPLP	47 J+	ND	0.46 J+	48 J+	260 J+	5
Lead, SPLP	0.088	ND	ND	0.26	0.72	0.0075
Manganese, SPLP	0.71	0.039	0.063	0.66	3.8	0.15
Mercury, SPLP	ND	ND	ND	ND	0.0003	0.002
Nickel, SPLP	0.055	ND	ND	0.053	0.31	0.1
Selenium, SPLP	ND	ND	ND	ND	ND	0.05

**Notes:**

--- - not applicable or value not available.

<sup>A</sup> - 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: 500-81071-1  
Client Project/Site: IDOT - IL Rt. 132 - WO 046

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

Attn: Mr. S. Babusukumar



Authorized for release by:  
8/6/2014 1:40:55 PM

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

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://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 - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81071-1

**Client Sample ID: CP-1(0-6)-072214**

**Lab Sample ID: 500-81071-1**

**Date Collected: 07/22/14 08:40**

**Matrix: Solid**

**Date Received: 07/23/14 10:00**

**Percent Solids: 82.1**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>110</b>		6.1	2.6	ug/Kg	☼		07/25/14 12:58	1
Benzene	<6.1		6.1	0.83	ug/Kg	☼		07/25/14 12:58	1
Bromodichloromethane	<6.1		6.1	1.0	ug/Kg	☼		07/25/14 12:58	1
Bromoform	<6.1		6.1	1.4	ug/Kg	☼		07/25/14 12:58	1
Bromomethane	<6.1		6.1	1.8	ug/Kg	☼		07/25/14 12:58	1
Carbon disulfide	<6.1		6.1	0.91	ug/Kg	☼		07/25/14 12:58	1
Carbon tetrachloride	<6.1		6.1	1.1	ug/Kg	☼		07/25/14 12:58	1
Chlorobenzene	<6.1		6.1	0.62	ug/Kg	☼		07/25/14 12:58	1
Chloroethane	<6.1		6.1	1.7	ug/Kg	☼		07/25/14 12:58	1
Chloroform	<6.1		6.1	0.70	ug/Kg	☼		07/25/14 12:58	1
Chloromethane	<6.1		6.1	1.3	ug/Kg	☼		07/25/14 12:58	1
cis-1,2-Dichloroethene	<6.1		6.1	0.86	ug/Kg	☼		07/25/14 12:58	1
cis-1,3-Dichloropropene	<6.1		6.1	0.80	ug/Kg	☼		07/25/14 12:58	1
Dibromochloromethane	<6.1		6.1	1.1	ug/Kg	☼		07/25/14 12:58	1
1,1-Dichloroethane	<6.1		6.1	0.96	ug/Kg	☼		07/25/14 12:58	1
1,2-Dichloroethane	<6.1		6.1	0.90	ug/Kg	☼		07/25/14 12:58	1
1,1-Dichloroethene	<6.1		6.1	0.98	ug/Kg	☼		07/25/14 12:58	1
1,2-Dichloropropane	<6.1		6.1	0.92	ug/Kg	☼		07/25/14 12:58	1
1,3-Dichloropropene, Total	<6.1		6.1	0.80	ug/Kg	☼		07/25/14 12:58	1
Ethylbenzene	<6.1		6.1	1.2	ug/Kg	☼		07/25/14 12:58	1
2-Hexanone	<6.1		6.1	1.8	ug/Kg	☼		07/25/14 12:58	1
Methylene Chloride	<6.1		6.1	1.6	ug/Kg	☼		07/25/14 12:58	1
<b>Methyl Ethyl Ketone</b>	<b>18</b>		6.1	2.2	ug/Kg	☼		07/25/14 12:58	1
methyl isobutyl ketone	<6.1		6.1	1.6	ug/Kg	☼		07/25/14 12:58	1
Methyl tert-butyl ether	<6.1		6.1	1.0	ug/Kg	☼		07/25/14 12:58	1
Styrene	<6.1		6.1	0.80	ug/Kg	☼		07/25/14 12:58	1
1,1,1,2-Tetrachloroethane	<6.1		6.1	1.2	ug/Kg	☼		07/25/14 12:58	1
Tetrachloroethene	<6.1		6.1	0.93	ug/Kg	☼		07/25/14 12:58	1
Toluene	<6.1		6.1	0.85	ug/Kg	☼		07/25/14 12:58	1
trans-1,2-Dichloroethene	<6.1		6.1	0.84	ug/Kg	☼		07/25/14 12:58	1
trans-1,3-Dichloropropene	<6.1		6.1	1.1	ug/Kg	☼		07/25/14 12:58	1
1,1,1-Trichloroethane	<6.1		6.1	0.91	ug/Kg	☼		07/25/14 12:58	1
1,1,2-Trichloroethane	<6.1		6.1	0.83	ug/Kg	☼		07/25/14 12:58	1
Trichloroethene	<6.1		6.1	1.0	ug/Kg	☼		07/25/14 12:58	1
Vinyl chloride	<6.1		6.1	1.3	ug/Kg	☼		07/25/14 12:58	1
Xylenes, Total	<12		12	0.55	ug/Kg	☼		07/25/14 12:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122		07/25/14 12:58	1
Dibromofluoromethane	107		75 - 120		07/25/14 12:58	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134		07/25/14 12:58	1
Toluene-d8 (Surr)	103		75 - 122		07/25/14 12:58	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	42	ug/Kg	☼	08/04/14 07:29	08/05/14 09:33	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	08/04/14 07:29	08/05/14 09:33	1
1,3-Dichlorobenzene	<190		190	44	ug/Kg	☼	08/04/14 07:29	08/05/14 09:33	1
1,4-Dichlorobenzene	<190		190	50	ug/Kg	☼	08/04/14 07:29	08/05/14 09:33	1
2,2'-oxybis[1-chloropropane]	<190		190	45	ug/Kg	☼	08/04/14 07:29	08/05/14 09:33	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81071-1

**Client Sample ID: CP-1(0-6)-072214**

**Lab Sample ID: 500-81071-1**

**Date Collected: 07/22/14 08:40**

**Matrix: Solid**

**Date Received: 07/23/14 10:00**

**Percent Solids: 82.1**

**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	☼	08/04/14 07:29	08/05/14 09:33	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	08/04/14 07:29	08/05/14 09:33	1
2,4-Dichlorophenol	<380		380	92	ug/Kg	☼	08/04/14 07:29	08/05/14 09:33	1
2,4-Dimethylphenol	<380		380	150	ug/Kg	☼	08/04/14 07:29	08/05/14 09:33	1
2,4-Dinitrophenol	<780		780	680	ug/Kg	☼	08/04/14 07:29	08/05/14 09:33	1
2,4-Dinitrotoluene	<190		190	62	ug/Kg	☼	08/04/14 07:29	08/05/14 09:33	1
2,6-Dinitrotoluene	<190		190	76	ug/Kg	☼	08/04/14 07:29	08/05/14 09:33	1
2-Chloronaphthalene	<190		190	43	ug/Kg	☼	08/04/14 07:29	08/05/14 09:33	1
2-Chlorophenol	<190		190	66	ug/Kg	☼	08/04/14 07:29	08/05/14 09:33	1
2-Methylnaphthalene	<38		38	7.1	ug/Kg	☼	08/04/14 07:29	08/05/14 09:33	1
2-Methylphenol	<190		190	62	ug/Kg	☼	08/04/14 07:29	08/05/14 09:33	1
2-Nitroaniline	<190		190	52	ug/Kg	☼	08/04/14 07:29	08/05/14 09:33	1
2-Nitrophenol	<380		380	92	ug/Kg	☼	08/04/14 07:29	08/05/14 09:33	1
3 & 4 Methylphenol	<190		190	65	ug/Kg	☼	08/04/14 07:29	08/05/14 09:33	1
3,3'-Dichlorobenzidine	<190		190	54	ug/Kg	☼	08/04/14 07:29	08/05/14 09:33	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	08/04/14 07:29	08/05/14 09:33	1
4,6-Dinitro-2-methylphenol	<380		380	310	ug/Kg	☼	08/04/14 07:29	08/05/14 09:33	1
4-Bromophenyl phenyl ether	<190		190	51	ug/Kg	☼	08/04/14 07:29	08/05/14 09:33	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	08/04/14 07:29	08/05/14 09:33	1
4-Chloroaniline	<780		780	180	ug/Kg	☼	08/04/14 07:29	08/05/14 09:33	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	08/04/14 07:29	08/05/14 09:33	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	08/04/14 07:29	08/05/14 09:33	1
4-Nitrophenol	<780		780	370	ug/Kg	☼	08/04/14 07:29	08/05/14 09:33	1
Acenaphthene	<38		38	7.0	ug/Kg	☼	08/04/14 07:29	08/05/14 09:33	1
Acenaphthylene	<38		38	5.1	ug/Kg	☼	08/04/14 07:29	08/05/14 09:33	1
Anthracene	<38		38	6.5	ug/Kg	☼	08/04/14 07:29	08/05/14 09:33	1
Benzo[a]anthracene	<38		38	5.2	ug/Kg	☼	08/04/14 07:29	08/05/14 09:33	1
Benzo[a]pyrene	<38		38	7.5	ug/Kg	☼	08/04/14 07:29	08/05/14 09:33	1
<b>Benzo[b]fluoranthene</b>	<b>11 J</b>		38	8.4	ug/Kg	☼	08/04/14 07:29	08/05/14 09:33	1
Benzo[g,h,i]perylene	<38		38	12	ug/Kg	☼	08/04/14 07:29	08/05/14 09:33	1
Benzo[k]fluoranthene	<38		38	11	ug/Kg	☼	08/04/14 07:29	08/05/14 09:33	1
Bis(2-chloroethoxy)methane	<190		190	40	ug/Kg	☼	08/04/14 07:29	08/05/14 09:33	1
Bis(2-chloroethyl)ether	<190		190	58	ug/Kg	☼	08/04/14 07:29	08/05/14 09:33	1
Bis(2-ethylhexyl) phthalate	<190		190	71	ug/Kg	☼	08/04/14 07:29	08/05/14 09:33	1
Butyl benzyl phthalate	<190		190	74	ug/Kg	☼	08/04/14 07:29	08/05/14 09:33	1
Carbazole	<190		190	100	ug/Kg	☼	08/04/14 07:29	08/05/14 09:33	1
Chrysene	<38		38	11	ug/Kg	☼	08/04/14 07:29	08/05/14 09:33	1
Dibenz(a,h)anthracene	<38		38	7.5	ug/Kg	☼	08/04/14 07:29	08/05/14 09:33	1
Dibenzofuran	<190		190	45	ug/Kg	☼	08/04/14 07:29	08/05/14 09:33	1
Diethyl phthalate	<190		190	66	ug/Kg	☼	08/04/14 07:29	08/05/14 09:33	1
Dimethyl phthalate	<190		190	51	ug/Kg	☼	08/04/14 07:29	08/05/14 09:33	1
Di-n-butyl phthalate	<190		190	59	ug/Kg	☼	08/04/14 07:29	08/05/14 09:33	1
Di-n-octyl phthalate	<190		190	63	ug/Kg	☼	08/04/14 07:29	08/05/14 09:33	1
Fluoranthene	<38		38	7.2	ug/Kg	☼	08/04/14 07:29	08/05/14 09:33	1
Fluorene	<38		38	5.4	ug/Kg	☼	08/04/14 07:29	08/05/14 09:33	1
Hexachlorobenzene	<78		78	9.0	ug/Kg	☼	08/04/14 07:29	08/05/14 09:33	1
Hexachlorobutadiene	<190		190	61	ug/Kg	☼	08/04/14 07:29	08/05/14 09:33	1
Hexachlorocyclopentadiene	<780		780	220	ug/Kg	☼	08/04/14 07:29	08/05/14 09:33	1
Hexachloroethane	<190		190	59	ug/Kg	☼	08/04/14 07:29	08/05/14 09:33	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81071-1

**Client Sample ID: CP-1(0-6)-072214**

**Lab Sample ID: 500-81071-1**

**Date Collected: 07/22/14 08:40**

**Matrix: Solid**

**Date Received: 07/23/14 10:00**

**Percent Solids: 82.1**

**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	☼	08/04/14 07:29	08/05/14 09:33	1
Isophorone	<190		190	44	ug/Kg	☼	08/04/14 07:29	08/05/14 09:33	1
Naphthalene	<38		38	6.0	ug/Kg	☼	08/04/14 07:29	08/05/14 09:33	1
Nitrobenzene	<38		38	9.7	ug/Kg	☼	08/04/14 07:29	08/05/14 09:33	1
N-Nitrosodi-n-propylamine	<190		190	47	ug/Kg	☼	08/04/14 07:29	08/05/14 09:33	1
N-Nitrosodiphenylamine	<190		190	46	ug/Kg	☼	08/04/14 07:29	08/05/14 09:33	1
Pentachlorophenol	<780		780	620	ug/Kg	☼	08/04/14 07:29	08/05/14 09:33	1
Phenanthrene	<38		38	5.4	ug/Kg	☼	08/04/14 07:29	08/05/14 09:33	1
Phenol	<190		190	86	ug/Kg	☼	08/04/14 07:29	08/05/14 09:33	1
<b>Pyrene</b>	<b>12</b>	<b>J</b>	38	7.7	ug/Kg	☼	08/04/14 07:29	08/05/14 09:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	83		35 - 137				08/04/14 07:29	08/05/14 09:33	1
2-Fluorobiphenyl	94		25 - 119				08/04/14 07:29	08/05/14 09:33	1
2-Fluorophenol	81		25 - 110				08/04/14 07:29	08/05/14 09:33	1
Nitrobenzene-d5	74		25 - 115				08/04/14 07:29	08/05/14 09:33	1
Phenol-d5	84		31 - 110				08/04/14 07:29	08/05/14 09:33	1
Terphenyl-d14	81		36 - 134				08/04/14 07:29	08/05/14 09:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.014</b>	<b>J</b>	0.050	0.010	mg/L		08/02/14 09:00	08/04/14 18:09	1
<b>Barium</b>	<b>0.48</b>	<b>J</b>	0.50	0.050	mg/L		08/02/14 09:00	08/04/14 18:09	1
Beryllium	<0.040		0.040	0.040	mg/L		08/02/14 09:00	08/05/14 16:46	10
Cadmium	<0.050		0.050	0.020	mg/L		08/02/14 09:00	08/05/14 16:46	10
Chromium	<0.25		0.25	0.10	mg/L		08/02/14 09:00	08/05/14 16:46	10
<b>Cobalt</b>	<b>0.063</b>		0.025	0.010	mg/L		08/02/14 09:00	08/04/14 18:09	1
Copper	<0.025		0.025	0.010	mg/L		08/02/14 09:00	08/04/14 18:09	1
Iron	<0.20		0.20	0.20	mg/L		08/02/14 09:00	08/04/14 18:09	1
<b>Lead</b>	<b>0.59</b>		0.0075	0.0075	mg/L		08/02/14 09:00	08/04/14 18:09	1
<b>Manganese</b>	<b>5.3</b>		0.025	0.010	mg/L		08/02/14 09:00	08/04/14 18:09	1
<b>Nickel</b>	<b>0.045</b>		0.025	0.010	mg/L		08/02/14 09:00	08/04/14 18:09	1
Selenium	<0.50		0.50	0.10	mg/L		08/02/14 09:00	08/05/14 16:46	10
Silver	<0.025		0.025	0.010	mg/L		08/02/14 09:00	08/04/14 18:09	1
<b>Zinc</b>	<b>0.096</b>	<b>J ^</b>	0.10	0.020	mg/L		08/02/14 09:00	08/04/14 18:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.090</b>		0.050	0.010	mg/L		07/30/14 10:00	07/31/14 21:03	1
<b>Barium</b>	<b>0.76</b>		0.50	0.050	mg/L		07/30/14 10:00	07/31/14 21:03	1
<b>Beryllium</b>	<b>0.0092</b>		0.0040	0.0040	mg/L		07/30/14 10:00	07/31/14 21:03	1
<b>Cadmium</b>	<b>0.0067</b>		0.0050	0.0020	mg/L		07/30/14 10:00	07/31/14 21:03	1
<b>Chromium</b>	<b>0.22</b>		0.025	0.010	mg/L		07/30/14 10:00	07/31/14 21:03	1
<b>Cobalt</b>	<b>0.10</b>		0.025	0.010	mg/L		07/30/14 10:00	07/31/14 21:03	1
<b>Copper</b>	<b>0.31</b>		0.025	0.010	mg/L		07/30/14 10:00	07/31/14 21:03	1
<b>Iron</b>	<b>250</b>		0.20	0.20	mg/L		07/30/14 10:00	07/31/14 21:03	1
<b>Lead</b>	<b>0.23</b>		0.0075	0.0075	mg/L		07/30/14 10:00	07/31/14 21:03	1
<b>Manganese</b>	<b>2.7</b>		0.025	0.010	mg/L		07/30/14 10:00	08/01/14 14:40	1
<b>Nickel</b>	<b>0.26</b>		0.025	0.010	mg/L		07/30/14 10:00	07/31/14 21:03	1
<b>Selenium</b>	<b>0.014</b>	<b>J</b>	0.050	0.010	mg/L		07/30/14 10:00	07/31/14 21:03	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81071-1

**Client Sample ID: CP-1(0-6)-072214**

**Lab Sample ID: 500-81071-1**

Date Collected: 07/22/14 08:40

Matrix: Solid

Date Received: 07/23/14 10:00

**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		07/30/14 10:00	07/31/14 21:03	1
<b>Zinc</b>	<b>0.60</b>		0.10	0.020	mg/L		07/30/14 10:00	07/31/14 21:03	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.47	mg/Kg	☼	07/30/14 17:15	08/01/14 02:55	1
<b>Arsenic</b>	<b>8.3</b>		0.59	0.12	mg/Kg	☼	07/30/14 17:15	08/01/14 02:55	1
<b>Barium</b>	<b>44</b>		0.59	0.063	mg/Kg	☼	07/30/14 17:15	08/01/14 02:55	1
<b>Beryllium</b>	<b>0.53</b>		0.23	0.047	mg/Kg	☼	07/30/14 17:15	08/01/14 02:55	1
<b>Cadmium</b>	<b>0.094</b>	<b>J B</b>	0.12	0.015	mg/Kg	☼	07/30/14 17:15	08/01/14 02:55	1
<b>Calcium</b>	<b>51000</b>	<b>B</b>	59	16	mg/Kg	☼	07/30/14 17:15	08/01/14 14:59	5
<b>Chromium</b>	<b>14</b>	<b>B</b>	0.59	0.068	mg/Kg	☼	07/30/14 17:15	08/01/14 02:55	1
<b>Cobalt</b>	<b>13</b>		0.29	0.059	mg/Kg	☼	07/30/14 17:15	08/01/14 02:55	1
<b>Copper</b>	<b>25</b>		0.59	0.12	mg/Kg	☼	07/30/14 17:15	08/01/14 02:55	1
<b>Iron</b>	<b>20000</b>	<b>B</b>	12	4.8	mg/Kg	☼	07/30/14 17:15	08/01/14 02:55	1
<b>Lead</b>	<b>17</b>		0.29	0.087	mg/Kg	☼	07/30/14 17:15	08/01/14 02:55	1
<b>Magnesium</b>	<b>21000</b>	<b>B</b>	5.9	1.2	mg/Kg	☼	07/30/14 17:15	08/01/14 02:55	1
<b>Manganese</b>	<b>450</b>	<b>B</b>	0.59	0.12	mg/Kg	☼	07/30/14 17:15	08/01/14 02:55	1
<b>Nickel</b>	<b>27</b>		0.59	0.12	mg/Kg	☼	07/30/14 17:15	08/01/14 02:55	1
<b>Potassium</b>	<b>1400</b>		29	1.8	mg/Kg	☼	07/30/14 17:15	08/01/14 02:55	1
Selenium	<0.59		0.59	0.21	mg/Kg	☼	07/30/14 17:15	08/01/14 02:55	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	07/30/14 17:15	08/01/14 02:55	1
<b>Sodium</b>	<b>1600</b>		59	7.9	mg/Kg	☼	07/30/14 17:15	08/01/14 02:55	1
<b>Thallium</b>	<b>0.34</b>	<b>J</b>	0.59	0.25	mg/Kg	☼	07/30/14 17:15	08/01/14 02:55	1
<b>Vanadium</b>	<b>19</b>		0.29	0.043	mg/Kg	☼	07/30/14 17:15	08/01/14 02:55	1
<b>Zinc</b>	<b>65</b>	<b>B</b>	1.2	0.24	mg/Kg	☼	07/30/14 17:15	08/01/14 02:55	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		08/04/14 12:00	08/05/14 08:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.31</b>		0.20	0.20	ug/L		07/30/14 12:00	07/31/14 09:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>28</b>		18	6.9	ug/Kg	☼	07/30/14 12:00	07/31/14 09:10	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.85</b>		0.200	0.200	SU			07/31/14 12:19	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81071-1

**Client Sample ID: CP-1(0-6)-072214D**

**Lab Sample ID: 500-81071-2**

**Date Collected: 07/22/14 08:40**

**Matrix: Solid**

**Date Received: 07/23/14 10:00**

**Percent Solids: 85.4**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>100</b>		5.9	2.5	ug/Kg	☼		07/25/14 13:21	1
Benzene	<5.9		5.9	0.80	ug/Kg	☼		07/25/14 13:21	1
Bromodichloromethane	<5.9		5.9	1.0	ug/Kg	☼		07/25/14 13:21	1
Bromoform	<5.9		5.9	1.3	ug/Kg	☼		07/25/14 13:21	1
Bromomethane	<5.9		5.9	1.8	ug/Kg	☼		07/25/14 13:21	1
Carbon disulfide	<5.9		5.9	0.87	ug/Kg	☼		07/25/14 13:21	1
Carbon tetrachloride	<5.9		5.9	1.1	ug/Kg	☼		07/25/14 13:21	1
Chlorobenzene	<5.9		5.9	0.59	ug/Kg	☼		07/25/14 13:21	1
Chloroethane	<5.9		5.9	1.6	ug/Kg	☼		07/25/14 13:21	1
Chloroform	<5.9		5.9	0.67	ug/Kg	☼		07/25/14 13:21	1
Chloromethane	<5.9		5.9	1.2	ug/Kg	☼		07/25/14 13:21	1
cis-1,2-Dichloroethene	<5.9		5.9	0.83	ug/Kg	☼		07/25/14 13:21	1
cis-1,3-Dichloropropene	<5.9		5.9	0.77	ug/Kg	☼		07/25/14 13:21	1
Dibromochloromethane	<5.9		5.9	1.0	ug/Kg	☼		07/25/14 13:21	1
1,1-Dichloroethane	<5.9		5.9	0.93	ug/Kg	☼		07/25/14 13:21	1
1,2-Dichloroethane	<5.9		5.9	0.87	ug/Kg	☼		07/25/14 13:21	1
1,1-Dichloroethene	<5.9		5.9	0.95	ug/Kg	☼		07/25/14 13:21	1
1,2-Dichloropropane	<5.9		5.9	0.89	ug/Kg	☼		07/25/14 13:21	1
1,3-Dichloropropene, Total	<5.9		5.9	0.77	ug/Kg	☼		07/25/14 13:21	1
Ethylbenzene	<5.9		5.9	1.2	ug/Kg	☼		07/25/14 13:21	1
2-Hexanone	<5.9		5.9	1.7	ug/Kg	☼		07/25/14 13:21	1
Methylene Chloride	<5.9		5.9	1.6	ug/Kg	☼		07/25/14 13:21	1
<b>Methyl Ethyl Ketone</b>	<b>16</b>		5.9	2.1	ug/Kg	☼		07/25/14 13:21	1
methyl isobutyl ketone	<5.9		5.9	1.5	ug/Kg	☼		07/25/14 13:21	1
Methyl tert-butyl ether	<5.9		5.9	0.97	ug/Kg	☼		07/25/14 13:21	1
Styrene	<5.9		5.9	0.77	ug/Kg	☼		07/25/14 13:21	1
1,1,1,2-Tetrachloroethane	<5.9		5.9	1.2	ug/Kg	☼		07/25/14 13:21	1
Tetrachloroethene	<5.9		5.9	0.89	ug/Kg	☼		07/25/14 13:21	1
Toluene	<5.9		5.9	0.82	ug/Kg	☼		07/25/14 13:21	1
trans-1,2-Dichloroethene	<5.9		5.9	0.81	ug/Kg	☼		07/25/14 13:21	1
trans-1,3-Dichloropropene	<5.9		5.9	1.0	ug/Kg	☼		07/25/14 13:21	1
1,1,1-Trichloroethane	<5.9		5.9	0.87	ug/Kg	☼		07/25/14 13:21	1
1,1,2-Trichloroethane	<5.9		5.9	0.80	ug/Kg	☼		07/25/14 13:21	1
Trichloroethene	<5.9		5.9	0.97	ug/Kg	☼		07/25/14 13:21	1
Vinyl chloride	<5.9		5.9	1.2	ug/Kg	☼		07/25/14 13:21	1
Xylenes, Total	<12		12	0.53	ug/Kg	☼		07/25/14 13:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122		07/25/14 13:21	1
Dibromofluoromethane	108		75 - 120		07/25/14 13:21	1
1,2-Dichloroethane-d4 (Surr)	109		70 - 134		07/25/14 13:21	1
Toluene-d8 (Surr)	97		75 - 122		07/25/14 13:21	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	40	ug/Kg	☼	08/04/14 07:29	08/05/14 09:54	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	08/04/14 07:29	08/05/14 09:54	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	08/04/14 07:29	08/05/14 09:54	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	08/04/14 07:29	08/05/14 09:54	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	08/04/14 07:29	08/05/14 09:54	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81071-1

**Client Sample ID: CP-1(0-6)-072214D**

**Lab Sample ID: 500-81071-2**

**Date Collected: 07/22/14 08:40**

**Matrix: Solid**

**Date Received: 07/23/14 10:00**

**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	<370		370	86	ug/Kg	☼	08/04/14 07:29	08/05/14 09:54	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	08/04/14 07:29	08/05/14 09:54	1
2,4-Dichlorophenol	<370		370	89	ug/Kg	☼	08/04/14 07:29	08/05/14 09:54	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	08/04/14 07:29	08/05/14 09:54	1
2,4-Dinitrophenol	<760		760	660	ug/Kg	☼	08/04/14 07:29	08/05/14 09:54	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	08/04/14 07:29	08/05/14 09:54	1
2,6-Dinitrotoluene	<190		190	74	ug/Kg	☼	08/04/14 07:29	08/05/14 09:54	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	08/04/14 07:29	08/05/14 09:54	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	08/04/14 07:29	08/05/14 09:54	1
2-Methylnaphthalene	<37		37	6.9	ug/Kg	☼	08/04/14 07:29	08/05/14 09:54	1
2-Methylphenol	<190		190	60	ug/Kg	☼	08/04/14 07:29	08/05/14 09:54	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	08/04/14 07:29	08/05/14 09:54	1
2-Nitrophenol	<370		370	89	ug/Kg	☼	08/04/14 07:29	08/05/14 09:54	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	08/04/14 07:29	08/05/14 09:54	1
3,3'-Dichlorobenzidine	<190		190	53	ug/Kg	☼	08/04/14 07:29	08/05/14 09:54	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	08/04/14 07:29	08/05/14 09:54	1
4,6-Dinitro-2-methylphenol	<370		370	300	ug/Kg	☼	08/04/14 07:29	08/05/14 09:54	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	08/04/14 07:29	08/05/14 09:54	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	08/04/14 07:29	08/05/14 09:54	1
4-Chloroaniline	<760		760	180	ug/Kg	☼	08/04/14 07:29	08/05/14 09:54	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	08/04/14 07:29	08/05/14 09:54	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	08/04/14 07:29	08/05/14 09:54	1
4-Nitrophenol	<760		760	360	ug/Kg	☼	08/04/14 07:29	08/05/14 09:54	1
Acenaphthene	<37		37	6.7	ug/Kg	☼	08/04/14 07:29	08/05/14 09:54	1
Acenaphthylene	<37		37	4.9	ug/Kg	☼	08/04/14 07:29	08/05/14 09:54	1
Anthracene	<37		37	6.3	ug/Kg	☼	08/04/14 07:29	08/05/14 09:54	1
Benzo[a]anthracene	<37		37	5.1	ug/Kg	☼	08/04/14 07:29	08/05/14 09:54	1
Benzo[a]pyrene	<37		37	7.3	ug/Kg	☼	08/04/14 07:29	08/05/14 09:54	1
Benzo[b]fluoranthene	<37		37	8.1	ug/Kg	☼	08/04/14 07:29	08/05/14 09:54	1
Benzo[g,h,i]perylene	<37		37	12	ug/Kg	☼	08/04/14 07:29	08/05/14 09:54	1
Benzo[k]fluoranthene	<37		37	11	ug/Kg	☼	08/04/14 07:29	08/05/14 09:54	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	08/04/14 07:29	08/05/14 09:54	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	08/04/14 07:29	08/05/14 09:54	1
Bis(2-ethylhexyl) phthalate	<190		190	69	ug/Kg	☼	08/04/14 07:29	08/05/14 09:54	1
Butyl benzyl phthalate	<190		190	71	ug/Kg	☼	08/04/14 07:29	08/05/14 09:54	1
Carbazole	<190		190	97	ug/Kg	☼	08/04/14 07:29	08/05/14 09:54	1
Chrysene	<37		37	10	ug/Kg	☼	08/04/14 07:29	08/05/14 09:54	1
Dibenz(a,h)anthracene	<37		37	7.3	ug/Kg	☼	08/04/14 07:29	08/05/14 09:54	1
Dibenzofuran	<190		190	44	ug/Kg	☼	08/04/14 07:29	08/05/14 09:54	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	08/04/14 07:29	08/05/14 09:54	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	08/04/14 07:29	08/05/14 09:54	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	08/04/14 07:29	08/05/14 09:54	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	08/04/14 07:29	08/05/14 09:54	1
Fluoranthene	<37		37	7.0	ug/Kg	☼	08/04/14 07:29	08/05/14 09:54	1
Fluorene	<37		37	5.3	ug/Kg	☼	08/04/14 07:29	08/05/14 09:54	1
Hexachlorobenzene	<76		76	8.7	ug/Kg	☼	08/04/14 07:29	08/05/14 09:54	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	08/04/14 07:29	08/05/14 09:54	1
Hexachlorocyclopentadiene	<760		760	220	ug/Kg	☼	08/04/14 07:29	08/05/14 09:54	1
Hexachloroethane	<190		190	57	ug/Kg	☼	08/04/14 07:29	08/05/14 09:54	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81071-1

**Client Sample ID: CP-1(0-6)-072214D**

**Lab Sample ID: 500-81071-2**

**Date Collected: 07/22/14 08:40**

**Matrix: Solid**

**Date Received: 07/23/14 10:00**

**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	<37		37	9.7	ug/Kg	☼	08/04/14 07:29	08/05/14 09:54	1
Isophorone	<190		190	42	ug/Kg	☼	08/04/14 07:29	08/05/14 09:54	1
Naphthalene	<37		37	5.8	ug/Kg	☼	08/04/14 07:29	08/05/14 09:54	1
Nitrobenzene	<37		37	9.4	ug/Kg	☼	08/04/14 07:29	08/05/14 09:54	1
N-Nitrosodi-n-propylamine	<190		190	46	ug/Kg	☼	08/04/14 07:29	08/05/14 09:54	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	08/04/14 07:29	08/05/14 09:54	1
Pentachlorophenol	<760		760	600	ug/Kg	☼	08/04/14 07:29	08/05/14 09:54	1
Phenanthrene	<37		37	5.2	ug/Kg	☼	08/04/14 07:29	08/05/14 09:54	1
Phenol	<190		190	83	ug/Kg	☼	08/04/14 07:29	08/05/14 09:54	1
Pyrene	<37		37	7.5	ug/Kg	☼	08/04/14 07:29	08/05/14 09:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	69		35 - 137				08/04/14 07:29	08/05/14 09:54	1
2-Fluorobiphenyl	76		25 - 119				08/04/14 07:29	08/05/14 09:54	1
2-Fluorophenol	67		25 - 110				08/04/14 07:29	08/05/14 09:54	1
Nitrobenzene-d5	61		25 - 115				08/04/14 07:29	08/05/14 09:54	1
Phenol-d5	66		31 - 110				08/04/14 07:29	08/05/14 09:54	1
Terphenyl-d14	72		36 - 134				08/04/14 07:29	08/05/14 09:54	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		08/02/14 09:00	08/04/14 18:14	1
<b>Barium</b>	<b>0.50</b>		0.50	0.050	mg/L		08/02/14 09:00	08/04/14 18:14	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/02/14 09:00	08/04/14 18:14	1
<b>Cadmium</b>	<b>0.0023</b>	<b>J</b>	0.0050	0.0020	mg/L		08/02/14 09:00	08/04/14 18:14	1
Chromium	<0.025		0.025	0.010	mg/L		08/02/14 09:00	08/04/14 18:14	1
<b>Cobalt</b>	<b>0.010</b>	<b>J</b>	0.025	0.010	mg/L		08/02/14 09:00	08/04/14 18:14	1
<b>Copper</b>	<b>0.011</b>	<b>J</b>	0.025	0.010	mg/L		08/02/14 09:00	08/04/14 18:14	1
<b>Iron</b>	<b>0.28</b>		0.20	0.20	mg/L		08/02/14 09:00	08/04/14 18:14	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/02/14 09:00	08/04/14 18:14	1
<b>Manganese</b>	<b>5.6</b>		0.025	0.010	mg/L		08/02/14 09:00	08/04/14 18:14	1
<b>Nickel</b>	<b>0.014</b>	<b>J</b>	0.025	0.010	mg/L		08/02/14 09:00	08/04/14 18:14	1
<b>Selenium</b>	<b>0.013</b>	<b>J B</b>	0.050	0.010	mg/L		08/02/14 09:00	08/04/14 18:14	1
Silver	<0.025		0.025	0.010	mg/L		08/02/14 09:00	08/04/14 18:14	1
<b>Zinc</b>	<b>0.11</b>		0.10	0.020	mg/L		08/02/14 09:00	08/05/14 16:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.083</b>		0.050	0.010	mg/L		07/30/14 10:00	07/31/14 21:42	1
<b>Barium</b>	<b>0.65</b>		0.50	0.050	mg/L		07/30/14 10:00	07/31/14 21:42	1
<b>Beryllium</b>	<b>0.0084</b>		0.0040	0.0040	mg/L		07/30/14 10:00	07/31/14 21:42	1
<b>Cadmium</b>	<b>0.0065</b>		0.0050	0.0020	mg/L		07/30/14 10:00	07/31/14 21:42	1
<b>Chromium</b>	<b>0.20</b>		0.025	0.010	mg/L		07/30/14 10:00	07/31/14 21:42	1
<b>Cobalt</b>	<b>0.095</b>		0.025	0.010	mg/L		07/30/14 10:00	07/31/14 21:42	1
<b>Copper</b>	<b>0.29</b>		0.025	0.010	mg/L		07/30/14 10:00	07/31/14 21:42	1
<b>Iron</b>	<b>230</b>		0.20	0.20	mg/L		07/30/14 10:00	07/31/14 21:42	1
<b>Lead</b>	<b>0.25</b>		0.0075	0.0075	mg/L		07/30/14 10:00	07/31/14 21:42	1
<b>Manganese</b>	<b>2.5</b>		0.025	0.010	mg/L		07/30/14 10:00	07/31/14 21:42	1
<b>Nickel</b>	<b>0.24</b>		0.025	0.010	mg/L		07/30/14 10:00	07/31/14 21:42	1
<b>Selenium</b>	<b>0.011</b>	<b>J</b>	0.050	0.010	mg/L		07/30/14 10:00	07/31/14 21:42	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81071-1

**Client Sample ID: CP-1(0-6)-072214D**

**Lab Sample ID: 500-81071-2**

Date Collected: 07/22/14 08:40

Matrix: Solid

Date Received: 07/23/14 10:00

**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		07/30/14 10:00	07/31/14 21:42	1
Zinc	0.61		0.10	0.020	mg/L		07/30/14 10:00	07/31/14 21:42	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.43	mg/Kg	☼	07/30/14 17:15	08/01/14 03:26	1
Arsenic	7.9		0.54	0.11	mg/Kg	☼	07/30/14 17:15	08/01/14 03:26	1
Barium	36		0.54	0.057	mg/Kg	☼	07/30/14 17:15	08/01/14 03:26	1
Beryllium	0.44		0.21	0.043	mg/Kg	☼	07/30/14 17:15	08/01/14 03:26	1
Cadmium	0.17	B	0.11	0.014	mg/Kg	☼	07/30/14 17:15	08/01/14 03:26	1
Calcium	74000	B	54	15	mg/Kg	☼	07/30/14 17:15	08/01/14 15:19	5
Chromium	12	B	0.54	0.062	mg/Kg	☼	07/30/14 17:15	08/01/14 03:26	1
Cobalt	11		0.27	0.054	mg/Kg	☼	07/30/14 17:15	08/01/14 03:26	1
Copper	22		0.54	0.11	mg/Kg	☼	07/30/14 17:15	08/01/14 03:26	1
Iron	19000	B	11	4.4	mg/Kg	☼	07/30/14 17:15	08/01/14 03:26	1
Lead	14		0.27	0.080	mg/Kg	☼	07/30/14 17:15	08/01/14 03:26	1
Magnesium	29000	B	5.4	1.1	mg/Kg	☼	07/30/14 17:15	08/01/14 03:26	1
Manganese	510	B	0.54	0.11	mg/Kg	☼	07/30/14 17:15	08/01/14 03:26	1
Nickel	25		0.54	0.11	mg/Kg	☼	07/30/14 17:15	08/01/14 03:26	1
Potassium	1200		27	1.6	mg/Kg	☼	07/30/14 17:15	08/01/14 03:26	1
Selenium	0.26	J	0.54	0.19	mg/Kg	☼	07/30/14 17:15	08/01/14 03:26	1
Silver	<0.27		0.27	0.019	mg/Kg	☼	07/30/14 17:15	08/01/14 03:26	1
Sodium	1500		54	7.2	mg/Kg	☼	07/30/14 17:15	08/01/14 03:26	1
Thallium	0.42	J	0.54	0.23	mg/Kg	☼	07/30/14 17:15	08/01/14 03:26	1
Vanadium	15		0.27	0.040	mg/Kg	☼	07/30/14 17:15	08/01/14 03:26	1
Zinc	71	B	1.1	0.22	mg/Kg	☼	07/30/14 17:15	08/01/14 03:26	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		08/04/14 12:00	08/05/14 08:01	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		07/30/14 12:00	07/31/14 09:37	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	51		19	7.3	ug/Kg	☼	07/30/14 12:00	07/31/14 09:12	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.81		0.200	0.200	SU			07/31/14 12:21	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81071-1

**Client Sample ID: CP-1(6-12)-072214**

**Lab Sample ID: 500-81071-3**

**Date Collected: 07/22/14 08:55**

**Matrix: Solid**

**Date Received: 07/23/14 10:00**

**Percent Solids: 71.2**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>110</b>		7.0	3.0	ug/Kg	☼		07/25/14 13:44	1
Benzene	<7.0		7.0	0.96	ug/Kg	☼		07/25/14 13:44	1
Bromodichloromethane	<7.0		7.0	1.2	ug/Kg	☼		07/25/14 13:44	1
Bromoform	<7.0		7.0	1.6	ug/Kg	☼		07/25/14 13:44	1
Bromomethane	<7.0		7.0	2.1	ug/Kg	☼		07/25/14 13:44	1
Carbon disulfide	<7.0		7.0	1.0	ug/Kg	☼		07/25/14 13:44	1
Carbon tetrachloride	<7.0		7.0	1.3	ug/Kg	☼		07/25/14 13:44	1
Chlorobenzene	<7.0		7.0	0.71	ug/Kg	☼		07/25/14 13:44	1
Chloroethane	<7.0		7.0	1.9	ug/Kg	☼		07/25/14 13:44	1
Chloroform	<7.0		7.0	0.81	ug/Kg	☼		07/25/14 13:44	1
Chloromethane	<7.0		7.0	1.5	ug/Kg	☼		07/25/14 13:44	1
cis-1,2-Dichloroethene	<7.0		7.0	0.99	ug/Kg	☼		07/25/14 13:44	1
cis-1,3-Dichloropropene	<7.0		7.0	0.92	ug/Kg	☼		07/25/14 13:44	1
Dibromochloromethane	<7.0		7.0	1.2	ug/Kg	☼		07/25/14 13:44	1
1,1-Dichloroethane	<7.0		7.0	1.1	ug/Kg	☼		07/25/14 13:44	1
1,2-Dichloroethane	<7.0		7.0	1.0	ug/Kg	☼		07/25/14 13:44	1
1,1,1-Dichloroethene	<7.0		7.0	1.1	ug/Kg	☼		07/25/14 13:44	1
1,2-Dichloropropane	<7.0		7.0	1.1	ug/Kg	☼		07/25/14 13:44	1
1,3-Dichloropropene, Total	<7.0		7.0	0.92	ug/Kg	☼		07/25/14 13:44	1
Ethylbenzene	<7.0		7.0	1.4	ug/Kg	☼		07/25/14 13:44	1
2-Hexanone	<7.0		7.0	2.0	ug/Kg	☼		07/25/14 13:44	1
Methylene Chloride	<7.0		7.0	1.9	ug/Kg	☼		07/25/14 13:44	1
<b>Methyl Ethyl Ketone</b>	<b>20</b>		7.0	2.5	ug/Kg	☼		07/25/14 13:44	1
methyl isobutyl ketone	<7.0		7.0	1.8	ug/Kg	☼		07/25/14 13:44	1
Methyl tert-butyl ether	<7.0		7.0	1.2	ug/Kg	☼		07/25/14 13:44	1
Styrene	<7.0		7.0	0.92	ug/Kg	☼		07/25/14 13:44	1
1,1,1,2-Tetrachloroethane	<7.0		7.0	1.4	ug/Kg	☼		07/25/14 13:44	1
Tetrachloroethene	<7.0		7.0	1.1	ug/Kg	☼		07/25/14 13:44	1
Toluene	<7.0		7.0	0.98	ug/Kg	☼		07/25/14 13:44	1
trans-1,2-Dichloroethene	<7.0		7.0	0.97	ug/Kg	☼		07/25/14 13:44	1
trans-1,3-Dichloropropene	<7.0		7.0	1.3	ug/Kg	☼		07/25/14 13:44	1
1,1,1-Trichloroethane	<7.0		7.0	1.0	ug/Kg	☼		07/25/14 13:44	1
1,1,2-Trichloroethane	<7.0		7.0	0.96	ug/Kg	☼		07/25/14 13:44	1
Trichloroethene	<7.0		7.0	1.2	ug/Kg	☼		07/25/14 13:44	1
Vinyl chloride	<7.0		7.0	1.5	ug/Kg	☼		07/25/14 13:44	1
Xylenes, Total	<14		14	0.64	ug/Kg	☼		07/25/14 13:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122		07/25/14 13:44	1
Dibromofluoromethane	107		75 - 120		07/25/14 13:44	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134		07/25/14 13:44	1
Toluene-d8 (Surr)	100		75 - 122		07/25/14 13:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<230		230	50	ug/Kg	☼	08/04/14 07:29	08/05/14 10:15	1
1,2-Dichlorobenzene	<230		230	56	ug/Kg	☼	08/04/14 07:29	08/05/14 10:15	1
1,3-Dichlorobenzene	<230		230	52	ug/Kg	☼	08/04/14 07:29	08/05/14 10:15	1
1,4-Dichlorobenzene	<230		230	60	ug/Kg	☼	08/04/14 07:29	08/05/14 10:15	1
2,2'-oxybis[1-chloropropane]	<230		230	54	ug/Kg	☼	08/04/14 07:29	08/05/14 10:15	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81071-1

**Client Sample ID: CP-1(6-12)-072214**

**Lab Sample ID: 500-81071-3**

**Date Collected: 07/22/14 08:55**

**Matrix: Solid**

**Date Received: 07/23/14 10:00**

**Percent Solids: 71.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<460		460	110	ug/Kg	☼	08/04/14 07:29	08/05/14 10:15	1
2,4,6-Trichlorophenol	<460		460	160	ug/Kg	☼	08/04/14 07:29	08/05/14 10:15	1
2,4-Dichlorophenol	<460		460	110	ug/Kg	☼	08/04/14 07:29	08/05/14 10:15	1
2,4-Dimethylphenol	<460		460	180	ug/Kg	☼	08/04/14 07:29	08/05/14 10:15	1
2,4-Dinitrophenol	<940		940	820	ug/Kg	☼	08/04/14 07:29	08/05/14 10:15	1
2,4-Dinitrotoluene	<230		230	74	ug/Kg	☼	08/04/14 07:29	08/05/14 10:15	1
2,6-Dinitrotoluene	<230		230	92	ug/Kg	☼	08/04/14 07:29	08/05/14 10:15	1
2-Chloronaphthalene	<230		230	51	ug/Kg	☼	08/04/14 07:29	08/05/14 10:15	1
2-Chlorophenol	<230		230	80	ug/Kg	☼	08/04/14 07:29	08/05/14 10:15	1
<b>2-Methylnaphthalene</b>	<b>69</b>		46	8.6	ug/Kg	☼	08/04/14 07:29	08/05/14 10:15	1
2-Methylphenol	<230		230	75	ug/Kg	☼	08/04/14 07:29	08/05/14 10:15	1
2-Nitroaniline	<230		230	63	ug/Kg	☼	08/04/14 07:29	08/05/14 10:15	1
2-Nitrophenol	<460		460	110	ug/Kg	☼	08/04/14 07:29	08/05/14 10:15	1
3 & 4 Methylphenol	<230		230	78	ug/Kg	☼	08/04/14 07:29	08/05/14 10:15	1
3,3'-Dichlorobenzidine	<230		230	65	ug/Kg	☼	08/04/14 07:29	08/05/14 10:15	1
3-Nitroaniline	<460		460	140	ug/Kg	☼	08/04/14 07:29	08/05/14 10:15	1
4,6-Dinitro-2-methylphenol	<460		460	370	ug/Kg	☼	08/04/14 07:29	08/05/14 10:15	1
4-Bromophenyl phenyl ether	<230		230	61	ug/Kg	☼	08/04/14 07:29	08/05/14 10:15	1
4-Chloro-3-methylphenol	<460		460	160	ug/Kg	☼	08/04/14 07:29	08/05/14 10:15	1
4-Chloroaniline	<940		940	220	ug/Kg	☼	08/04/14 07:29	08/05/14 10:15	1
4-Chlorophenyl phenyl ether	<230		230	54	ug/Kg	☼	08/04/14 07:29	08/05/14 10:15	1
4-Nitroaniline	<460		460	200	ug/Kg	☼	08/04/14 07:29	08/05/14 10:15	1
4-Nitrophenol	<940		940	440	ug/Kg	☼	08/04/14 07:29	08/05/14 10:15	1
<b>Acenaphthene</b>	<b>370</b>		46	8.4	ug/Kg	☼	08/04/14 07:29	08/05/14 10:15	1
Acenaphthylene	<46		46	6.1	ug/Kg	☼	08/04/14 07:29	08/05/14 10:15	1
Anthracene	<46		46	7.8	ug/Kg	☼	08/04/14 07:29	08/05/14 10:15	1
Benzo[a]anthracene	<46		46	6.3	ug/Kg	☼	08/04/14 07:29	08/05/14 10:15	1
Benzo[a]pyrene	<46		46	9.0	ug/Kg	☼	08/04/14 07:29	08/05/14 10:15	1
<b>Benzo[b]fluoranthene</b>	<b>13 J</b>		46	10	ug/Kg	☼	08/04/14 07:29	08/05/14 10:15	1
Benzo[g,h,i]perylene	<46		46	15	ug/Kg	☼	08/04/14 07:29	08/05/14 10:15	1
Benzo[k]fluoranthene	<46		46	14	ug/Kg	☼	08/04/14 07:29	08/05/14 10:15	1
Bis(2-chloroethoxy)methane	<230		230	48	ug/Kg	☼	08/04/14 07:29	08/05/14 10:15	1
Bis(2-chloroethyl)ether	<230		230	70	ug/Kg	☼	08/04/14 07:29	08/05/14 10:15	1
Bis(2-ethylhexyl) phthalate	<230		230	85	ug/Kg	☼	08/04/14 07:29	08/05/14 10:15	1
Butyl benzyl phthalate	<230		230	89	ug/Kg	☼	08/04/14 07:29	08/05/14 10:15	1
Carbazole	<230		230	120	ug/Kg	☼	08/04/14 07:29	08/05/14 10:15	1
Chrysene	<46		46	13	ug/Kg	☼	08/04/14 07:29	08/05/14 10:15	1
Dibenz(a,h)anthracene	<46		46	9.0	ug/Kg	☼	08/04/14 07:29	08/05/14 10:15	1
Dibenzofuran	<230		230	55	ug/Kg	☼	08/04/14 07:29	08/05/14 10:15	1
Diethyl phthalate	<230		230	79	ug/Kg	☼	08/04/14 07:29	08/05/14 10:15	1
Dimethyl phthalate	<230		230	61	ug/Kg	☼	08/04/14 07:29	08/05/14 10:15	1
Di-n-butyl phthalate	<230		230	71	ug/Kg	☼	08/04/14 07:29	08/05/14 10:15	1
Di-n-octyl phthalate	<230		230	76	ug/Kg	☼	08/04/14 07:29	08/05/14 10:15	1
<b>Fluoranthene</b>	<b>12 J</b>		46	8.6	ug/Kg	☼	08/04/14 07:29	08/05/14 10:15	1
<b>Fluorene</b>	<b>84</b>		46	6.6	ug/Kg	☼	08/04/14 07:29	08/05/14 10:15	1
Hexachlorobenzene	<94		94	11	ug/Kg	☼	08/04/14 07:29	08/05/14 10:15	1
Hexachlorobutadiene	<230		230	73	ug/Kg	☼	08/04/14 07:29	08/05/14 10:15	1
Hexachlorocyclopentadiene	<940		940	270	ug/Kg	☼	08/04/14 07:29	08/05/14 10:15	1
Hexachloroethane	<230		230	71	ug/Kg	☼	08/04/14 07:29	08/05/14 10:15	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81071-1

**Client Sample ID: CP-1(6-12)-072214**

**Lab Sample ID: 500-81071-3**

**Date Collected: 07/22/14 08:55**

**Matrix: Solid**

**Date Received: 07/23/14 10:00**

**Percent Solids: 71.2**

**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	<46		46	12	ug/Kg	☼	08/04/14 07:29	08/05/14 10:15	1
Isophorone	<230		230	52	ug/Kg	☼	08/04/14 07:29	08/05/14 10:15	1
<b>Naphthalene</b>	<b>34</b>	<b>J</b>	46	7.2	ug/Kg	☼	08/04/14 07:29	08/05/14 10:15	1
Nitrobenzene	<46		46	12	ug/Kg	☼	08/04/14 07:29	08/05/14 10:15	1
N-Nitrosodi-n-propylamine	<230		230	57	ug/Kg	☼	08/04/14 07:29	08/05/14 10:15	1
N-Nitrosodiphenylamine	<230		230	55	ug/Kg	☼	08/04/14 07:29	08/05/14 10:15	1
Pentachlorophenol	<940		940	750	ug/Kg	☼	08/04/14 07:29	08/05/14 10:15	1
<b>Phenanthrene</b>	<b>140</b>		46	6.5	ug/Kg	☼	08/04/14 07:29	08/05/14 10:15	1
Phenol	<230		230	100	ug/Kg	☼	08/04/14 07:29	08/05/14 10:15	1
<b>Pyrene</b>	<b>19</b>	<b>J</b>	46	9.3	ug/Kg	☼	08/04/14 07:29	08/05/14 10:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	76		35 - 137				08/04/14 07:29	08/05/14 10:15	1
2-Fluorobiphenyl	81		25 - 119				08/04/14 07:29	08/05/14 10:15	1
2-Fluorophenol	60		25 - 110				08/04/14 07:29	08/05/14 10:15	1
Nitrobenzene-d5	57		25 - 115				08/04/14 07:29	08/05/14 10:15	1
Phenol-d5	70		31 - 110				08/04/14 07:29	08/05/14 10:15	1
Terphenyl-d14	71		36 - 134				08/04/14 07:29	08/05/14 10:15	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		08/02/14 09:00	08/04/14 18:20	1
<b>Barium</b>	<b>0.52</b>		0.50	0.050	mg/L		08/02/14 09:00	08/04/14 18:20	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/02/14 09:00	08/04/14 18:20	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/02/14 09:00	08/04/14 18:20	1
Chromium	<0.025		0.025	0.010	mg/L		08/02/14 09:00	08/04/14 18:20	1
Cobalt	<0.025		0.025	0.010	mg/L		08/02/14 09:00	08/04/14 18:20	1
Copper	<0.025		0.025	0.010	mg/L		08/02/14 09:00	08/04/14 18:20	1
Iron	<0.20		0.20	0.20	mg/L		08/02/14 09:00	08/04/14 18:20	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/02/14 09:00	08/04/14 18:20	1
<b>Manganese</b>	<b>3.4</b>		0.025	0.010	mg/L		08/02/14 09:00	08/04/14 18:20	1
Nickel	<0.025		0.025	0.010	mg/L		08/02/14 09:00	08/04/14 18:20	1
<b>Selenium</b>	<b>0.012</b>	<b>J B</b>	0.050	0.010	mg/L		08/02/14 09:00	08/04/14 18:20	1
Silver	<0.025		0.025	0.010	mg/L		08/02/14 09:00	08/04/14 18:20	1
<b>Zinc</b>	<b>0.12</b>		0.10	0.020	mg/L		08/02/14 09:00	08/05/14 16:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.034</b>	<b>J</b>	0.050	0.010	mg/L		07/30/14 10:00	07/31/14 21:49	1
<b>Barium</b>	<b>0.29</b>	<b>J</b>	0.50	0.050	mg/L		07/30/14 10:00	07/31/14 21:49	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/30/14 10:00	07/31/14 21:49	1
<b>Cadmium</b>	<b>0.0024</b>	<b>J</b>	0.0050	0.0020	mg/L		07/30/14 10:00	07/31/14 21:49	1
<b>Chromium</b>	<b>0.089</b>		0.025	0.010	mg/L		07/30/14 10:00	07/31/14 21:49	1
<b>Cobalt</b>	<b>0.041</b>		0.025	0.010	mg/L		07/30/14 10:00	07/31/14 21:49	1
<b>Copper</b>	<b>0.11</b>		0.025	0.010	mg/L		07/30/14 10:00	07/31/14 21:49	1
<b>Iron</b>	<b>94</b>		0.20	0.20	mg/L		07/30/14 10:00	07/31/14 21:49	1
<b>Lead</b>	<b>0.080</b>		0.0075	0.0075	mg/L		07/30/14 10:00	07/31/14 21:49	1
<b>Manganese</b>	<b>0.74</b>		0.025	0.010	mg/L		07/30/14 10:00	07/31/14 21:49	1
<b>Nickel</b>	<b>0.11</b>		0.025	0.010	mg/L		07/30/14 10:00	07/31/14 21:49	1
Selenium	<0.050		0.050	0.010	mg/L		07/30/14 10:00	07/31/14 21:49	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81071-1

**Client Sample ID: CP-1(6-12)-072214**

**Lab Sample ID: 500-81071-3**

Date Collected: 07/22/14 08:55

Matrix: Solid

Date Received: 07/23/14 10:00

**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		07/30/14 10:00	07/31/14 21:49	1
<b>Zinc</b>	<b>0.24</b>		0.10	0.020	mg/L		07/30/14 10:00	07/31/14 21:49	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.4		1.4	0.56	mg/Kg	☼	07/30/14 17:15	08/01/14 03:31	1
<b>Arsenic</b>	<b>7.8</b>		0.69	0.14	mg/Kg	☼	07/30/14 17:15	08/01/14 03:31	1
<b>Barium</b>	<b>43</b>		0.69	0.074	mg/Kg	☼	07/30/14 17:15	08/01/14 03:31	1
<b>Beryllium</b>	<b>0.53</b>		0.28	0.055	mg/Kg	☼	07/30/14 17:15	08/01/14 03:31	1
<b>Cadmium</b>	<b>0.44</b>	<b>B</b>	0.14	0.018	mg/Kg	☼	07/30/14 17:15	08/01/14 03:31	1
<b>Calcium</b>	<b>100000</b>	<b>B</b>	69	19	mg/Kg	☼	07/30/14 17:15	08/01/14 15:23	5
<b>Chromium</b>	<b>15</b>	<b>B</b>	0.69	0.080	mg/Kg	☼	07/30/14 17:15	08/01/14 03:31	1
<b>Cobalt</b>	<b>13</b>		0.35	0.069	mg/Kg	☼	07/30/14 17:15	08/01/14 03:31	1
<b>Copper</b>	<b>25</b>		0.69	0.14	mg/Kg	☼	07/30/14 17:15	08/01/14 03:31	1
<b>Iron</b>	<b>20000</b>	<b>B</b>	14	5.7	mg/Kg	☼	07/30/14 17:15	08/01/14 03:31	1
<b>Lead</b>	<b>15</b>		0.35	0.10	mg/Kg	☼	07/30/14 17:15	08/01/14 03:31	1
<b>Magnesium</b>	<b>37000</b>	<b>B</b>	6.9	1.4	mg/Kg	☼	07/30/14 17:15	08/01/14 03:31	1
<b>Manganese</b>	<b>570</b>	<b>B</b>	0.69	0.14	mg/Kg	☼	07/30/14 17:15	08/01/14 03:31	1
<b>Nickel</b>	<b>30</b>		0.69	0.14	mg/Kg	☼	07/30/14 17:15	08/01/14 03:31	1
<b>Potassium</b>	<b>1600</b>		35	2.1	mg/Kg	☼	07/30/14 17:15	08/01/14 03:31	1
<b>Selenium</b>	<b>0.30</b>	<b>J</b>	0.69	0.25	mg/Kg	☼	07/30/14 17:15	08/01/14 03:31	1
Silver	<0.35		0.35	0.025	mg/Kg	☼	07/30/14 17:15	08/01/14 03:31	1
<b>Sodium</b>	<b>1300</b>		69	9.3	mg/Kg	☼	07/30/14 17:15	08/01/14 03:31	1
<b>Thallium</b>	<b>0.40</b>	<b>J</b>	0.69	0.29	mg/Kg	☼	07/30/14 17:15	08/01/14 03:31	1
<b>Vanadium</b>	<b>18</b>		0.35	0.051	mg/Kg	☼	07/30/14 17:15	08/01/14 03:31	1
<b>Zinc</b>	<b>60</b>	<b>B</b>	1.4	0.28	mg/Kg	☼	07/30/14 17:15	08/01/14 03:31	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		08/04/14 12:00	08/05/14 08:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		07/30/14 12:00	07/31/14 09:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>24</b>		23	9.1	ug/Kg	☼	07/30/14 12:00	07/31/14 09:14	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.12</b>		0.200	0.200	SU			07/31/14 12:23	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81071-1

**Client Sample ID: CP-1(12-15)-072214**

**Lab Sample ID: 500-81071-4**

**Date Collected: 07/22/14 09:00**

**Matrix: Solid**

**Date Received: 07/23/14 10:00**

**Percent Solids: 23.4**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>240</b>		21	9.2	ug/Kg	☼		07/25/14 14:07	1
Benzene	<21		21	2.9	ug/Kg	☼		07/25/14 14:07	1
Bromodichloromethane	<21		21	3.7	ug/Kg	☼		07/25/14 14:07	1
Bromoform	<21		21	4.9	ug/Kg	☼		07/25/14 14:07	1
Bromomethane	<21		21	6.4	ug/Kg	☼		07/25/14 14:07	1
Carbon disulfide	<21		21	3.2	ug/Kg	☼		07/25/14 14:07	1
Carbon tetrachloride	<21		21	3.9	ug/Kg	☼		07/25/14 14:07	1
Chlorobenzene	<21		21	2.2	ug/Kg	☼		07/25/14 14:07	1
Chloroethane	<21		21	5.8	ug/Kg	☼		07/25/14 14:07	1
Chloroform	<21		21	2.5	ug/Kg	☼		07/25/14 14:07	1
Chloromethane	<21		21	4.5	ug/Kg	☼		07/25/14 14:07	1
cis-1,2-Dichloroethene	<21		21	3.0	ug/Kg	☼		07/25/14 14:07	1
cis-1,3-Dichloropropene	<21		21	2.8	ug/Kg	☼		07/25/14 14:07	1
Dibromochloromethane	<21		21	3.7	ug/Kg	☼		07/25/14 14:07	1
1,1-Dichloroethane	<21		21	3.4	ug/Kg	☼		07/25/14 14:07	1
1,2-Dichloroethane	<21		21	3.2	ug/Kg	☼		07/25/14 14:07	1
1,1,1-Dichloroethene	<21		21	3.4	ug/Kg	☼		07/25/14 14:07	1
1,2-Dichloropropane	<21		21	3.2	ug/Kg	☼		07/25/14 14:07	1
1,3-Dichloropropene, Total	<21		21	2.8	ug/Kg	☼		07/25/14 14:07	1
Ethylbenzene	<21		21	4.3	ug/Kg	☼		07/25/14 14:07	1
2-Hexanone	<21		21	6.1	ug/Kg	☼		07/25/14 14:07	1
Methylene Chloride	<21		21	5.8	ug/Kg	☼		07/25/14 14:07	1
<b>Methyl Ethyl Ketone</b>	<b>41</b>		21	7.7	ug/Kg	☼		07/25/14 14:07	1
methyl isobutyl ketone	<21		21	5.6	ug/Kg	☼		07/25/14 14:07	1
Methyl tert-butyl ether	<21		21	3.5	ug/Kg	☼		07/25/14 14:07	1
Styrene	<21		21	2.8	ug/Kg	☼		07/25/14 14:07	1
1,1,1,2-Tetrachloroethane	<21		21	4.3	ug/Kg	☼		07/25/14 14:07	1
Tetrachloroethene	<21		21	3.3	ug/Kg	☼		07/25/14 14:07	1
Toluene	<21		21	3.0	ug/Kg	☼		07/25/14 14:07	1
trans-1,2-Dichloroethene	<21		21	2.9	ug/Kg	☼		07/25/14 14:07	1
trans-1,3-Dichloropropene	<21		21	3.8	ug/Kg	☼		07/25/14 14:07	1
1,1,1-Trichloroethane	<21		21	3.2	ug/Kg	☼		07/25/14 14:07	1
1,1,2-Trichloroethane	<21		21	2.9	ug/Kg	☼		07/25/14 14:07	1
Trichloroethene	<21		21	3.5	ug/Kg	☼		07/25/14 14:07	1
Vinyl chloride	<21		21	4.5	ug/Kg	☼		07/25/14 14:07	1
Xylenes, Total	<43		43	1.9	ug/Kg	☼		07/25/14 14:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 122		07/25/14 14:07	1
Dibromofluoromethane	106		75 - 120		07/25/14 14:07	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134		07/25/14 14:07	1
Toluene-d8 (Surr)	104		75 - 122		07/25/14 14:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<690		690	150	ug/Kg	☼	08/04/14 07:29	08/05/14 10:56	1
1,2-Dichlorobenzene	<690		690	160	ug/Kg	☼	08/04/14 07:29	08/05/14 10:56	1
1,3-Dichlorobenzene	<690		690	160	ug/Kg	☼	08/04/14 07:29	08/05/14 10:56	1
1,4-Dichlorobenzene	<690		690	180	ug/Kg	☼	08/04/14 07:29	08/05/14 10:56	1
2,2'-oxybis[1-chloropropane]	<690		690	160	ug/Kg	☼	08/04/14 07:29	08/05/14 10:56	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81071-1

**Client Sample ID: CP-1(12-15)-072214**

**Lab Sample ID: 500-81071-4**

**Date Collected: 07/22/14 09:00**

**Matrix: Solid**

**Date Received: 07/23/14 10:00**

**Percent Solids: 23.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<1400		1400	310	ug/Kg	☼	08/04/14 07:29	08/05/14 10:56	1
2,4,6-Trichlorophenol	<1400		1400	470	ug/Kg	☼	08/04/14 07:29	08/05/14 10:56	1
2,4-Dichlorophenol	<1400		1400	330	ug/Kg	☼	08/04/14 07:29	08/05/14 10:56	1
2,4-Dimethylphenol	<1400		1400	520	ug/Kg	☼	08/04/14 07:29	08/05/14 10:56	1
2,4-Dinitrophenol	<2800		2800	2400	ug/Kg	☼	08/04/14 07:29	08/05/14 10:56	1
2,4-Dinitrotoluene	<690		690	220	ug/Kg	☼	08/04/14 07:29	08/05/14 10:56	1
2,6-Dinitrotoluene	<690		690	270	ug/Kg	☼	08/04/14 07:29	08/05/14 10:56	1
2-Chloronaphthalene	<690		690	150	ug/Kg	☼	08/04/14 07:29	08/05/14 10:56	1
2-Chlorophenol	<690		690	240	ug/Kg	☼	08/04/14 07:29	08/05/14 10:56	1
2-Methylnaphthalene	<140		140	25	ug/Kg	☼	08/04/14 07:29	08/05/14 10:56	1
2-Methylphenol	<690		690	220	ug/Kg	☼	08/04/14 07:29	08/05/14 10:56	1
2-Nitroaniline	<690		690	190	ug/Kg	☼	08/04/14 07:29	08/05/14 10:56	1
2-Nitrophenol	<1400		1400	330	ug/Kg	☼	08/04/14 07:29	08/05/14 10:56	1
3 & 4 Methylphenol	<690		690	230	ug/Kg	☼	08/04/14 07:29	08/05/14 10:56	1
3,3'-Dichlorobenzidine	<690		690	190	ug/Kg	☼	08/04/14 07:29	08/05/14 10:56	1
3-Nitroaniline	<1400		1400	430	ug/Kg	☼	08/04/14 07:29	08/05/14 10:56	1
4,6-Dinitro-2-methylphenol	<1400		1400	1100	ug/Kg	☼	08/04/14 07:29	08/05/14 10:56	1
4-Bromophenyl phenyl ether	<690		690	180	ug/Kg	☼	08/04/14 07:29	08/05/14 10:56	1
4-Chloro-3-methylphenol	<1400		1400	470	ug/Kg	☼	08/04/14 07:29	08/05/14 10:56	1
4-Chloroaniline	<2800		2800	650	ug/Kg	☼	08/04/14 07:29	08/05/14 10:56	1
4-Chlorophenyl phenyl ether	<690		690	160	ug/Kg	☼	08/04/14 07:29	08/05/14 10:56	1
4-Nitroaniline	<1400		1400	580	ug/Kg	☼	08/04/14 07:29	08/05/14 10:56	1
4-Nitrophenol	<2800		2800	1300	ug/Kg	☼	08/04/14 07:29	08/05/14 10:56	1
Acenaphthene	<140		140	25	ug/Kg	☼	08/04/14 07:29	08/05/14 10:56	1
Acenaphthylene	<140		140	18	ug/Kg	☼	08/04/14 07:29	08/05/14 10:56	1
Anthracene	<140		140	23	ug/Kg	☼	08/04/14 07:29	08/05/14 10:56	1
Benzo[a]anthracene	<140		140	19	ug/Kg	☼	08/04/14 07:29	08/05/14 10:56	1
Benzo[a]pyrene	<140		140	27	ug/Kg	☼	08/04/14 07:29	08/05/14 10:56	1
Benzo[b]fluoranthene	<140		140	30	ug/Kg	☼	08/04/14 07:29	08/05/14 10:56	1
Benzo[g,h,i]perylene	<140		140	44	ug/Kg	☼	08/04/14 07:29	08/05/14 10:56	1
Benzo[k]fluoranthene	<140		140	41	ug/Kg	☼	08/04/14 07:29	08/05/14 10:56	1
Bis(2-chloroethoxy)methane	<690		690	140	ug/Kg	☼	08/04/14 07:29	08/05/14 10:56	1
Bis(2-chloroethyl)ether	<690		690	210	ug/Kg	☼	08/04/14 07:29	08/05/14 10:56	1
Bis(2-ethylhexyl) phthalate	<690		690	250	ug/Kg	☼	08/04/14 07:29	08/05/14 10:56	1
Butyl benzyl phthalate	<690		690	260	ug/Kg	☼	08/04/14 07:29	08/05/14 10:56	1
Carbazole	<690		690	360	ug/Kg	☼	08/04/14 07:29	08/05/14 10:56	1
Chrysene	<140		140	38	ug/Kg	☼	08/04/14 07:29	08/05/14 10:56	1
Dibenz(a,h)anthracene	<140		140	27	ug/Kg	☼	08/04/14 07:29	08/05/14 10:56	1
Dibenzofuran	<690		690	160	ug/Kg	☼	08/04/14 07:29	08/05/14 10:56	1
Diethyl phthalate	<690		690	230	ug/Kg	☼	08/04/14 07:29	08/05/14 10:56	1
Dimethyl phthalate	<690		690	180	ug/Kg	☼	08/04/14 07:29	08/05/14 10:56	1
Di-n-butyl phthalate	<690		690	210	ug/Kg	☼	08/04/14 07:29	08/05/14 10:56	1
Di-n-octyl phthalate	<690		690	220	ug/Kg	☼	08/04/14 07:29	08/05/14 10:56	1
Fluoranthene	<140		140	26	ug/Kg	☼	08/04/14 07:29	08/05/14 10:56	1
Fluorene	<140		140	19	ug/Kg	☼	08/04/14 07:29	08/05/14 10:56	1
Hexachlorobenzene	<280		280	32	ug/Kg	☼	08/04/14 07:29	08/05/14 10:56	1
Hexachlorobutadiene	<690		690	220	ug/Kg	☼	08/04/14 07:29	08/05/14 10:56	1
Hexachlorocyclopentadiene	<2800		2800	790	ug/Kg	☼	08/04/14 07:29	08/05/14 10:56	1
Hexachloroethane	<690		690	210	ug/Kg	☼	08/04/14 07:29	08/05/14 10:56	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81071-1

**Client Sample ID: CP-1(12-15)-072214**

**Lab Sample ID: 500-81071-4**

**Date Collected: 07/22/14 09:00**

**Matrix: Solid**

**Date Received: 07/23/14 10:00**

**Percent Solids: 23.4**

**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	<140		140	36	ug/Kg	☼	08/04/14 07:29	08/05/14 10:56	1
Isophorone	<690		690	150	ug/Kg	☼	08/04/14 07:29	08/05/14 10:56	1
Naphthalene	<140		140	21	ug/Kg	☼	08/04/14 07:29	08/05/14 10:56	1
Nitrobenzene	<140		140	34	ug/Kg	☼	08/04/14 07:29	08/05/14 10:56	1
N-Nitrosodi-n-propylamine	<690		690	170	ug/Kg	☼	08/04/14 07:29	08/05/14 10:56	1
N-Nitrosodiphenylamine	<690		690	160	ug/Kg	☼	08/04/14 07:29	08/05/14 10:56	1
Pentachlorophenol	<2800		2800	2200	ug/Kg	☼	08/04/14 07:29	08/05/14 10:56	1
Phenanthrene	<140		140	19	ug/Kg	☼	08/04/14 07:29	08/05/14 10:56	1
Phenol	<690		690	310	ug/Kg	☼	08/04/14 07:29	08/05/14 10:56	1
Pyrene	<140		140	27	ug/Kg	☼	08/04/14 07:29	08/05/14 10:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	69		35 - 137				08/04/14 07:29	08/05/14 10:56	1
2-Fluorobiphenyl	72		25 - 119				08/04/14 07:29	08/05/14 10:56	1
2-Fluorophenol	53		25 - 110				08/04/14 07:29	08/05/14 10:56	1
Nitrobenzene-d5	46		25 - 115				08/04/14 07:29	08/05/14 10:56	1
Phenol-d5	63		31 - 110				08/04/14 07:29	08/05/14 10:56	1
Terphenyl-d14	67		36 - 134				08/04/14 07:29	08/05/14 10:56	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		08/02/14 09:00	08/04/14 18:32	1
<b>Barium</b>	<b>0.38</b>	<b>J</b>	0.50	0.050	mg/L		08/02/14 09:00	08/04/14 18:32	1
Beryllium	<0.0040	^	0.0040	0.0040	mg/L		08/02/14 09:00	08/04/14 18:32	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/02/14 09:00	08/04/14 18:32	1
Chromium	<0.025		0.025	0.010	mg/L		08/02/14 09:00	08/04/14 18:32	1
Cobalt	<0.025	^	0.025	0.010	mg/L		08/02/14 09:00	08/04/14 18:32	1
<b>Copper</b>	<b>0.079</b>		0.025	0.010	mg/L		08/02/14 09:00	08/04/14 18:32	1
Iron	<0.20		0.20	0.20	mg/L		08/02/14 09:00	08/04/14 18:32	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/02/14 09:00	08/04/14 18:32	1
<b>Manganese</b>	<b>1.1</b>		0.025	0.010	mg/L		08/02/14 09:00	08/04/14 18:32	1
Nickel	<0.025		0.025	0.010	mg/L		08/02/14 09:00	08/04/14 18:32	1
<b>Selenium</b>	<b>0.014</b>	<b>J B</b>	0.050	0.010	mg/L		08/02/14 09:00	08/04/14 18:32	1
Silver	<0.025		0.025	0.010	mg/L		08/02/14 09:00	08/04/14 18:32	1
<b>Zinc</b>	<b>0.14</b>		0.10	0.020	mg/L		08/02/14 09:00	08/05/14 17:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		07/30/14 10:00	07/31/14 21:55	1
Barium	<0.50		0.50	0.050	mg/L		07/30/14 10:00	07/31/14 21:55	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/30/14 10:00	07/31/14 21:55	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/30/14 10:00	07/31/14 21:55	1
Chromium	<0.025		0.025	0.010	mg/L		07/30/14 10:00	07/31/14 21:55	1
Cobalt	<0.025		0.025	0.010	mg/L		07/30/14 10:00	07/31/14 21:55	1
Copper	<0.025		0.025	0.010	mg/L		07/30/14 10:00	07/31/14 21:55	1
Iron	<0.20		0.20	0.20	mg/L		07/30/14 10:00	07/31/14 21:55	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/30/14 10:00	07/31/14 21:55	1
Manganese	<0.025		0.025	0.010	mg/L		07/30/14 10:00	07/31/14 21:55	1
Nickel	<0.025		0.025	0.010	mg/L		07/30/14 10:00	07/31/14 21:55	1
Selenium	<0.050		0.050	0.010	mg/L		07/30/14 10:00	07/31/14 21:55	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81071-1

**Client Sample ID: CP-1(12-15)-072214**

**Lab Sample ID: 500-81071-4**

Date Collected: 07/22/14 09:00

Matrix: Solid

Date Received: 07/23/14 10:00

**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		07/30/14 10:00	07/31/14 21:55	1
Zinc	<0.10		0.10	0.020	mg/L		07/30/14 10:00	07/31/14 21:55	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<4.0		4.0	1.6	mg/Kg	☼	07/30/14 17:15	08/01/14 03:36	1
Arsenic	4.2		2.0	0.40	mg/Kg	☼	07/30/14 17:15	08/01/14 03:36	1
Barium	75		2.0	0.21	mg/Kg	☼	07/30/14 17:15	08/01/14 03:36	1
Beryllium	0.20	J	0.80	0.16	mg/Kg	☼	07/30/14 17:15	08/01/14 03:36	1
Cadmium	0.37	J B	0.40	0.051	mg/Kg	☼	07/30/14 17:15	08/01/14 03:36	1
Calcium	170000	B	200	54	mg/Kg	☼	07/30/14 17:15	08/01/14 15:34	5
Chromium	5.7	B	2.0	0.23	mg/Kg	☼	07/30/14 17:15	08/01/14 03:36	1
Cobalt	3.4		1.0	0.20	mg/Kg	☼	07/30/14 17:15	08/01/14 03:36	1
Copper	15		2.0	0.40	mg/Kg	☼	07/30/14 17:15	08/01/14 03:36	1
Iron	9300	B	40	16	mg/Kg	☼	07/30/14 17:15	08/01/14 03:36	1
Lead	2.4		1.0	0.30	mg/Kg	☼	07/30/14 17:15	08/01/14 03:36	1
Magnesium	11000	B	20	4.1	mg/Kg	☼	07/30/14 17:15	08/01/14 03:36	1
Manganese	320	B	2.0	0.40	mg/Kg	☼	07/30/14 17:15	08/01/14 03:36	1
Nickel	11		2.0	0.40	mg/Kg	☼	07/30/14 17:15	08/01/14 03:36	1
Potassium	620		100	6.0	mg/Kg	☼	07/30/14 17:15	08/01/14 03:36	1
Selenium	2.4		2.0	0.71	mg/Kg	☼	07/30/14 17:15	08/01/14 03:36	1
Silver	<1.0		1.0	0.072	mg/Kg	☼	07/30/14 17:15	08/01/14 03:36	1
Sodium	2600		200	27	mg/Kg	☼	07/30/14 17:15	08/01/14 03:36	1
Thallium	<2.0		2.0	0.84	mg/Kg	☼	07/30/14 17:15	08/01/14 03:36	1
Vanadium	9.9		1.0	0.15	mg/Kg	☼	07/30/14 17:15	08/01/14 03:36	1
Zinc	35	B	4.0	0.80	mg/Kg	☼	07/30/14 17:15	08/01/14 03:36	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		08/04/14 12:00	08/05/14 08:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		07/30/14 12:00	07/31/14 09:41	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	<66		66	26	ug/Kg	☼	07/30/14 12:00	07/31/14 09:16	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.56		0.200	0.200	SU			07/31/14 12:25	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81071-1

**Client Sample ID: CP-4(0-6)-072214**

**Lab Sample ID: 500-81071-14**

**Date Collected: 07/22/14 10:35**

**Matrix: Solid**

**Date Received: 07/23/14 10:00**

**Percent Solids: 83.3**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<6.0		6.0	2.6	ug/Kg	*		07/25/14 17:55	1
Benzene	<6.0		6.0	0.82	ug/Kg	*		07/25/14 17:55	1
Bromodichloromethane	<6.0		6.0	1.0	ug/Kg	*		07/25/14 17:55	1
Bromoform	<6.0		6.0	1.4	ug/Kg	*		07/25/14 17:55	1
Bromomethane	<6.0		6.0	1.8	ug/Kg	*		07/25/14 17:55	1
Carbon disulfide	<6.0		6.0	0.90	ug/Kg	*		07/25/14 17:55	1
Carbon tetrachloride	<6.0		6.0	1.1	ug/Kg	*		07/25/14 17:55	1
Chlorobenzene	<6.0		6.0	0.61	ug/Kg	*		07/25/14 17:55	1
Chloroethane	<6.0		6.0	1.6	ug/Kg	*		07/25/14 17:55	1
Chloroform	<6.0		6.0	0.69	ug/Kg	*		07/25/14 17:55	1
Chloromethane	<6.0		6.0	1.3	ug/Kg	*		07/25/14 17:55	1
cis-1,2-Dichloroethene	<6.0		6.0	0.85	ug/Kg	*		07/25/14 17:55	1
cis-1,3-Dichloropropene	<6.0		6.0	0.79	ug/Kg	*		07/25/14 17:55	1
Dibromochloromethane	<6.0		6.0	1.0	ug/Kg	*		07/25/14 17:55	1
1,1-Dichloroethane	<6.0		6.0	0.95	ug/Kg	*		07/25/14 17:55	1
1,2-Dichloroethane	<6.0		6.0	0.89	ug/Kg	*		07/25/14 17:55	1
1,1-Dichloroethene	<6.0		6.0	0.97	ug/Kg	*		07/25/14 17:55	1
1,2-Dichloropropane	<6.0		6.0	0.91	ug/Kg	*		07/25/14 17:55	1
1,3-Dichloropropene, Total	<6.0		6.0	0.79	ug/Kg	*		07/25/14 17:55	1
Ethylbenzene	<6.0		6.0	1.2	ug/Kg	*		07/25/14 17:55	1
2-Hexanone	<6.0		6.0	1.7	ug/Kg	*		07/25/14 17:55	1
Methylene Chloride	<6.0		6.0	1.6	ug/Kg	*		07/25/14 17:55	1
Methyl Ethyl Ketone	<6.0		6.0	2.2	ug/Kg	*		07/25/14 17:55	1
methyl isobutyl ketone	<6.0		6.0	1.6	ug/Kg	*		07/25/14 17:55	1
Methyl tert-butyl ether	<6.0		6.0	0.99	ug/Kg	*		07/25/14 17:55	1
Styrene	<6.0		6.0	0.79	ug/Kg	*		07/25/14 17:55	1
1,1,2,2-Tetrachloroethane	<6.0		6.0	1.2	ug/Kg	*		07/25/14 17:55	1
Tetrachloroethene	<6.0		6.0	0.92	ug/Kg	*		07/25/14 17:55	1
Toluene	<6.0		6.0	0.84	ug/Kg	*		07/25/14 17:55	1
trans-1,2-Dichloroethene	<6.0		6.0	0.83	ug/Kg	*		07/25/14 17:55	1
trans-1,3-Dichloropropene	<6.0		6.0	1.1	ug/Kg	*		07/25/14 17:55	1
1,1,1-Trichloroethane	<6.0		6.0	0.90	ug/Kg	*		07/25/14 17:55	1
1,1,2-Trichloroethane	<6.0		6.0	0.82	ug/Kg	*		07/25/14 17:55	1
Trichloroethene	<6.0		6.0	0.99	ug/Kg	*		07/25/14 17:55	1
Vinyl chloride	<6.0		6.0	1.3	ug/Kg	*		07/25/14 17:55	1
Xylenes, Total	<12		12	0.54	ug/Kg	*		07/25/14 17:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122		07/25/14 17:55	1
Dibromofluoromethane	114		75 - 120		07/25/14 17:55	1
1,2-Dichloroethane-d4 (Surr)	113		70 - 134		07/25/14 17:55	1
Toluene-d8 (Surr)	98		75 - 122		07/25/14 17:55	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	*	08/04/14 07:29	08/05/14 15:46	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	*	08/04/14 07:29	08/05/14 15:46	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	*	08/04/14 07:29	08/05/14 15:46	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	*	08/04/14 07:29	08/05/14 15:46	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	*	08/04/14 07:29	08/05/14 15:46	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81071-1

**Client Sample ID: CP-4(0-6)-072214**

**Lab Sample ID: 500-81071-14**

**Date Collected: 07/22/14 10:35**

**Matrix: Solid**

**Date Received: 07/23/14 10:00**

**Percent Solids: 83.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	85	ug/Kg	☼	08/04/14 07:29	08/05/14 15:46	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	08/04/14 07:29	08/05/14 15:46	1
2,4-Dichlorophenol	<370		370	89	ug/Kg	☼	08/04/14 07:29	08/05/14 15:46	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	08/04/14 07:29	08/05/14 15:46	1
2,4-Dinitrophenol	<750		750	660	ug/Kg	☼	08/04/14 07:29	08/05/14 15:46	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	08/04/14 07:29	08/05/14 15:46	1
2,6-Dinitrotoluene	<190		190	74	ug/Kg	☼	08/04/14 07:29	08/05/14 15:46	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	08/04/14 07:29	08/05/14 15:46	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	08/04/14 07:29	08/05/14 15:46	1
2-Methylnaphthalene	<37		37	6.9	ug/Kg	☼	08/04/14 07:29	08/05/14 15:46	1
2-Methylphenol	<190		190	60	ug/Kg	☼	08/04/14 07:29	08/05/14 15:46	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	08/04/14 07:29	08/05/14 15:46	1
2-Nitrophenol	<370		370	88	ug/Kg	☼	08/04/14 07:29	08/05/14 15:46	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	08/04/14 07:29	08/05/14 15:46	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	08/04/14 07:29	08/05/14 15:46	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	08/04/14 07:29	08/05/14 15:46	1
4,6-Dinitro-2-methylphenol	<370		370	300	ug/Kg	☼	08/04/14 07:29	08/05/14 15:46	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	08/04/14 07:29	08/05/14 15:46	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	08/04/14 07:29	08/05/14 15:46	1
4-Chloroaniline	<750		750	180	ug/Kg	☼	08/04/14 07:29	08/05/14 15:46	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	08/04/14 07:29	08/05/14 15:46	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	08/04/14 07:29	08/05/14 15:46	1
4-Nitrophenol	<750		750	360	ug/Kg	☼	08/04/14 07:29	08/05/14 15:46	1
Acenaphthene	<37		37	6.7	ug/Kg	☼	08/04/14 07:29	08/05/14 15:46	1
Acenaphthylene	<37		37	4.9	ug/Kg	☼	08/04/14 07:29	08/05/14 15:46	1
Anthracene	<37		37	6.2	ug/Kg	☼	08/04/14 07:29	08/05/14 15:46	1
<b>Benzo[a]anthracene</b>	<b>7.9 J</b>		37	5.0	ug/Kg	☼	08/04/14 07:29	08/05/14 15:46	1
<b>Benzo[a]pyrene</b>	<b>10 J</b>		37	7.2	ug/Kg	☼	08/04/14 07:29	08/05/14 15:46	1
<b>Benzo[b]fluoranthene</b>	<b>21 J</b>		37	8.1	ug/Kg	☼	08/04/14 07:29	08/05/14 15:46	1
<b>Benzo[g,h,i]perylene</b>	<b>13 J</b>		37	12	ug/Kg	☼	08/04/14 07:29	08/05/14 15:46	1
<b>Benzo[k]fluoranthene</b>	<b>12 J</b>		37	11	ug/Kg	☼	08/04/14 07:29	08/05/14 15:46	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	08/04/14 07:29	08/05/14 15:46	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	08/04/14 07:29	08/05/14 15:46	1
Bis(2-ethylhexyl) phthalate	<190		190	68	ug/Kg	☼	08/04/14 07:29	08/05/14 15:46	1
Butyl benzyl phthalate	<190		190	71	ug/Kg	☼	08/04/14 07:29	08/05/14 15:46	1
Carbazole	<190		190	97	ug/Kg	☼	08/04/14 07:29	08/05/14 15:46	1
<b>Chrysene</b>	<b>13 J</b>		37	10	ug/Kg	☼	08/04/14 07:29	08/05/14 15:46	1
Dibenz(a,h)anthracene	<37		37	7.2	ug/Kg	☼	08/04/14 07:29	08/05/14 15:46	1
Dibenzofuran	<190		190	44	ug/Kg	☼	08/04/14 07:29	08/05/14 15:46	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	08/04/14 07:29	08/05/14 15:46	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	08/04/14 07:29	08/05/14 15:46	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	08/04/14 07:29	08/05/14 15:46	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	08/04/14 07:29	08/05/14 15:46	1
<b>Fluoranthene</b>	<b>10 J</b>		37	6.9	ug/Kg	☼	08/04/14 07:29	08/05/14 15:46	1
Fluorene	<37		37	5.3	ug/Kg	☼	08/04/14 07:29	08/05/14 15:46	1
Hexachlorobenzene	<75		75	8.7	ug/Kg	☼	08/04/14 07:29	08/05/14 15:46	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	08/04/14 07:29	08/05/14 15:46	1
Hexachlorocyclopentadiene	<750		750	210	ug/Kg	☼	08/04/14 07:29	08/05/14 15:46	1
Hexachloroethane	<190		190	57	ug/Kg	☼	08/04/14 07:29	08/05/14 15:46	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81071-1

**Client Sample ID: CP-4(0-6)-072214**

**Lab Sample ID: 500-81071-14**

Date Collected: 07/22/14 10:35

Matrix: Solid

Date Received: 07/23/14 10:00

Percent Solids: 83.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<37		37	9.7	ug/Kg	☼	08/04/14 07:29	08/05/14 15:46	1
Isophorone	<190		190	42	ug/Kg	☼	08/04/14 07:29	08/05/14 15:46	1
Naphthalene	<37		37	5.8	ug/Kg	☼	08/04/14 07:29	08/05/14 15:46	1
Nitrobenzene	<37		37	9.3	ug/Kg	☼	08/04/14 07:29	08/05/14 15:46	1
N-Nitrosodi-n-propylamine	<190		190	46	ug/Kg	☼	08/04/14 07:29	08/05/14 15:46	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	08/04/14 07:29	08/05/14 15:46	1
Pentachlorophenol	<750		750	600	ug/Kg	☼	08/04/14 07:29	08/05/14 15:46	1
Phenanthrene	<37		37	5.2	ug/Kg	☼	08/04/14 07:29	08/05/14 15:46	1
Phenol	<190		190	83	ug/Kg	☼	08/04/14 07:29	08/05/14 15:46	1
<b>Pyrene</b>	<b>21</b>	<b>J</b>	37	7.4	ug/Kg	☼	08/04/14 07:29	08/05/14 15:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	68		35 - 137	08/04/14 07:29	08/05/14 15:46	1
2-Fluorobiphenyl	71		25 - 119	08/04/14 07:29	08/05/14 15:46	1
2-Fluorophenol	61		25 - 110	08/04/14 07:29	08/05/14 15:46	1
Nitrobenzene-d5	51		25 - 115	08/04/14 07:29	08/05/14 15:46	1
Phenol-d5	57		31 - 110	08/04/14 07:29	08/05/14 15:46	1
Terphenyl-d14	75		36 - 134	08/04/14 07:29	08/05/14 15:46	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		08/02/14 09:00	08/04/14 19:30	1
<b>Barium</b>	<b>0.42</b>	<b>J</b>	0.50	0.050	mg/L		08/02/14 09:00	08/04/14 19:30	1
Beryllium	<0.0040	^	0.0040	0.0040	mg/L		08/02/14 09:00	08/04/14 19:30	1
<b>Cadmium</b>	<b>0.0021</b>	<b>J</b>	0.0050	0.0020	mg/L		08/02/14 09:00	08/04/14 19:30	1
Chromium	<0.025		0.025	0.010	mg/L		08/02/14 09:00	08/04/14 19:30	1
Cobalt	<0.025	^	0.025	0.010	mg/L		08/02/14 09:00	08/04/14 19:30	1
<b>Copper</b>	<b>0.023</b>	<b>J</b>	0.025	0.010	mg/L		08/02/14 09:00	08/04/14 19:30	1
Iron	<0.20		0.20	0.20	mg/L		08/02/14 09:00	08/04/14 19:30	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/02/14 09:00	08/04/14 19:30	1
<b>Manganese</b>	<b>3.5</b>		0.025	0.010	mg/L		08/02/14 09:00	08/04/14 19:30	1
<b>Nickel</b>	<b>0.014</b>	<b>J</b>	0.025	0.010	mg/L		08/02/14 09:00	08/04/14 19:30	1
Selenium	<0.050		0.050	0.010	mg/L		08/02/14 09:00	08/04/14 19:30	1
Silver	<0.025		0.025	0.010	mg/L		08/02/14 09:00	08/04/14 19:30	1
<b>Zinc</b>	<b>0.15</b>		0.10	0.020	mg/L		08/02/14 09:00	08/05/14 18:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.11</b>		0.050	0.010	mg/L		07/30/14 10:00	07/31/14 04:13	1
<b>Barium</b>	<b>0.55</b>		0.50	0.050	mg/L		07/30/14 10:00	07/31/14 04:13	1
<b>Beryllium</b>	<b>0.0089</b>		0.0040	0.0040	mg/L		07/30/14 10:00	07/31/14 04:13	1
<b>Cadmium</b>	<b>0.0036</b>	<b>J</b>	0.0050	0.0020	mg/L		07/30/14 10:00	07/31/14 04:13	1
<b>Chromium</b>	<b>0.21</b>		0.025	0.010	mg/L		07/30/14 10:00	07/31/14 04:13	1
<b>Cobalt</b>	<b>0.067</b>		0.025	0.010	mg/L		07/30/14 10:00	07/31/14 04:13	1
<b>Copper</b>	<b>0.34</b>		0.025	0.010	mg/L		07/30/14 10:00	07/31/14 04:13	1
<b>Iron</b>	<b>270</b>		0.20	0.20	mg/L		07/30/14 10:00	07/31/14 04:13	1
<b>Lead</b>	<b>0.13</b>		0.0075	0.0075	mg/L		07/30/14 10:00	07/31/14 04:13	1
<b>Manganese</b>	<b>2.2</b>		0.025	0.010	mg/L		07/30/14 10:00	07/31/14 04:13	1
<b>Nickel</b>	<b>0.25</b>		0.025	0.010	mg/L		07/30/14 10:00	07/31/14 04:13	1
Selenium	<0.050		0.050	0.010	mg/L		07/30/14 10:00	07/31/14 04:13	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81071-1

**Client Sample ID: CP-4(0-6)-072214**

**Lab Sample ID: 500-81071-14**

Date Collected: 07/22/14 10:35

Matrix: Solid

Date Received: 07/23/14 10:00

**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		07/30/14 10:00	07/31/14 04:13	1
<b>Zinc</b>	<b>0.69</b>		0.10	0.020	mg/L		07/30/14 10:00	07/31/14 04:13	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.45	mg/Kg	☼	07/30/14 17:15	08/01/14 04:32	1
<b>Arsenic</b>	<b>9.6</b>		0.56	0.11	mg/Kg	☼	07/30/14 17:15	08/01/14 04:32	1
<b>Barium</b>	<b>48</b>		0.56	0.060	mg/Kg	☼	07/30/14 17:15	08/01/14 04:32	1
<b>Beryllium</b>	<b>0.54</b>		0.22	0.045	mg/Kg	☼	07/30/14 17:15	08/01/14 04:32	1
<b>Cadmium</b>	<b>0.030</b>	<b>J B</b>	0.11	0.014	mg/Kg	☼	07/30/14 17:15	08/01/14 04:32	1
<b>Calcium</b>	<b>15000</b>	<b>B</b>	11	3.0	mg/Kg	☼	07/30/14 17:15	08/01/14 04:32	1
<b>Chromium</b>	<b>16</b>	<b>B</b>	0.56	0.065	mg/Kg	☼	07/30/14 17:15	08/01/14 04:32	1
<b>Cobalt</b>	<b>13</b>		0.28	0.056	mg/Kg	☼	07/30/14 17:15	08/01/14 04:32	1
<b>Copper</b>	<b>26</b>		0.56	0.11	mg/Kg	☼	07/30/14 17:15	08/01/14 04:32	1
<b>Iron</b>	<b>24000</b>	<b>B</b>	11	4.6	mg/Kg	☼	07/30/14 17:15	08/01/14 04:32	1
<b>Lead</b>	<b>19</b>		0.28	0.083	mg/Kg	☼	07/30/14 17:15	08/01/14 04:32	1
<b>Magnesium</b>	<b>10000</b>	<b>B</b>	5.6	1.1	mg/Kg	☼	07/30/14 17:15	08/01/14 04:32	1
<b>Manganese</b>	<b>580</b>	<b>B</b>	0.56	0.11	mg/Kg	☼	07/30/14 17:15	08/01/14 04:32	1
<b>Nickel</b>	<b>27</b>		0.56	0.11	mg/Kg	☼	07/30/14 17:15	08/01/14 04:32	1
<b>Potassium</b>	<b>1000</b>		28	1.7	mg/Kg	☼	07/30/14 17:15	08/01/14 04:32	1
Selenium	<0.56		0.56	0.20	mg/Kg	☼	07/30/14 17:15	08/01/14 04:32	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	07/30/14 17:15	08/01/14 04:32	1
<b>Sodium</b>	<b>1900</b>		56	7.5	mg/Kg	☼	07/30/14 17:15	08/01/14 04:32	1
Thallium	<0.56		0.56	0.24	mg/Kg	☼	07/30/14 17:15	08/01/14 04:32	1
<b>Vanadium</b>	<b>21</b>		0.28	0.041	mg/Kg	☼	07/30/14 17:15	08/01/14 04:32	1
<b>Zinc</b>	<b>73</b>	<b>B</b>	1.1	0.23	mg/Kg	☼	07/30/14 17:15	08/01/14 04:32	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		08/04/14 12:00	08/05/14 08:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.63</b>		0.20	0.20	ug/L		07/30/14 12:00	07/31/14 10:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>34</b>		17	6.7	ug/Kg	☼	07/30/14 12:00	07/31/14 09:51	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.97</b>		0.200	0.200	SU			07/31/14 12:48	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81071-1

**Client Sample ID: CP-4(6-12)-072214**

**Lab Sample ID: 500-81071-15**

**Date Collected: 07/22/14 10:45**

**Matrix: Solid**

**Date Received: 07/23/14 10:00**

**Percent Solids: 82.4**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>210</b>		6.1	2.6	ug/Kg	☼		07/25/14 18:18	1
Benzene	<6.1		6.1	0.83	ug/Kg	☼		07/25/14 18:18	1
Bromodichloromethane	<6.1		6.1	1.0	ug/Kg	☼		07/25/14 18:18	1
Bromoform	<6.1		6.1	1.4	ug/Kg	☼		07/25/14 18:18	1
Bromomethane	<6.1		6.1	1.8	ug/Kg	☼		07/25/14 18:18	1
Carbon disulfide	<6.1		6.1	0.91	ug/Kg	☼		07/25/14 18:18	1
Carbon tetrachloride	<6.1		6.1	1.1	ug/Kg	☼		07/25/14 18:18	1
Chlorobenzene	<6.1		6.1	0.62	ug/Kg	☼		07/25/14 18:18	1
Chloroethane	<6.1		6.1	1.7	ug/Kg	☼		07/25/14 18:18	1
Chloroform	<6.1		6.1	0.70	ug/Kg	☼		07/25/14 18:18	1
Chloromethane	<6.1		6.1	1.3	ug/Kg	☼		07/25/14 18:18	1
cis-1,2-Dichloroethene	<6.1		6.1	0.86	ug/Kg	☼		07/25/14 18:18	1
cis-1,3-Dichloropropene	<6.1		6.1	0.80	ug/Kg	☼		07/25/14 18:18	1
Dibromochloromethane	<6.1		6.1	1.1	ug/Kg	☼		07/25/14 18:18	1
1,1-Dichloroethane	<6.1		6.1	0.96	ug/Kg	☼		07/25/14 18:18	1
1,2-Dichloroethane	<6.1		6.1	0.90	ug/Kg	☼		07/25/14 18:18	1
1,1-Dichloroethene	<6.1		6.1	0.98	ug/Kg	☼		07/25/14 18:18	1
1,2-Dichloropropane	<6.1		6.1	0.92	ug/Kg	☼		07/25/14 18:18	1
1,3-Dichloropropene, Total	<6.1		6.1	0.80	ug/Kg	☼		07/25/14 18:18	1
Ethylbenzene	<6.1		6.1	1.2	ug/Kg	☼		07/25/14 18:18	1
2-Hexanone	<6.1		6.1	1.7	ug/Kg	☼		07/25/14 18:18	1
Methylene Chloride	<6.1		6.1	1.6	ug/Kg	☼		07/25/14 18:18	1
<b>Methyl Ethyl Ketone</b>	<b>41</b>		6.1	2.2	ug/Kg	☼		07/25/14 18:18	1
methyl isobutyl ketone	<6.1		6.1	1.6	ug/Kg	☼		07/25/14 18:18	1
Methyl tert-butyl ether	<6.1		6.1	1.0	ug/Kg	☼		07/25/14 18:18	1
Styrene	<6.1		6.1	0.80	ug/Kg	☼		07/25/14 18:18	1
1,1,1,2-Tetrachloroethane	<6.1		6.1	1.2	ug/Kg	☼		07/25/14 18:18	1
Tetrachloroethene	<6.1		6.1	0.93	ug/Kg	☼		07/25/14 18:18	1
Toluene	<6.1		6.1	0.85	ug/Kg	☼		07/25/14 18:18	1
trans-1,2-Dichloroethene	<6.1		6.1	0.84	ug/Kg	☼		07/25/14 18:18	1
trans-1,3-Dichloropropene	<6.1		6.1	1.1	ug/Kg	☼		07/25/14 18:18	1
1,1,1-Trichloroethane	<6.1		6.1	0.91	ug/Kg	☼		07/25/14 18:18	1
1,1,2-Trichloroethane	<6.1		6.1	0.83	ug/Kg	☼		07/25/14 18:18	1
Trichloroethene	<6.1		6.1	1.0	ug/Kg	☼		07/25/14 18:18	1
Vinyl chloride	<6.1		6.1	1.3	ug/Kg	☼		07/25/14 18:18	1
Xylenes, Total	<12		12	0.55	ug/Kg	☼		07/25/14 18:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 122		07/25/14 18:18	1
Dibromofluoromethane	113		75 - 120		07/25/14 18:18	1
1,2-Dichloroethane-d4 (Surr)	109		70 - 134		07/25/14 18:18	1
Toluene-d8 (Surr)	97		75 - 122		07/25/14 18:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<990		990	210	ug/Kg	☼	08/04/14 07:29	08/05/14 16:07	5
1,2-Dichlorobenzene	<990		990	230	ug/Kg	☼	08/04/14 07:29	08/05/14 16:07	5
1,3-Dichlorobenzene	<990		990	220	ug/Kg	☼	08/04/14 07:29	08/05/14 16:07	5
1,4-Dichlorobenzene	<990		990	250	ug/Kg	☼	08/04/14 07:29	08/05/14 16:07	5
2,2'-oxybis[1-chloropropane]	<990		990	230	ug/Kg	☼	08/04/14 07:29	08/05/14 16:07	5

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81071-1

**Client Sample ID: CP-4(6-12)-072214**

**Lab Sample ID: 500-81071-15**

**Date Collected: 07/22/14 10:45**

**Matrix: Solid**

**Date Received: 07/23/14 10:00**

**Percent Solids: 82.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<2000		2000	450	ug/Kg	☼	08/04/14 07:29	08/05/14 16:07	5
2,4,6-Trichlorophenol	<2000		2000	670	ug/Kg	☼	08/04/14 07:29	08/05/14 16:07	5
2,4-Dichlorophenol	<2000		2000	470	ug/Kg	☼	08/04/14 07:29	08/05/14 16:07	5
2,4-Dimethylphenol	<2000		2000	750	ug/Kg	☼	08/04/14 07:29	08/05/14 16:07	5
2,4-Dinitrophenol	<4000		4000	3500	ug/Kg	☼	08/04/14 07:29	08/05/14 16:07	5
2,4-Dinitrotoluene	<990		990	310	ug/Kg	☼	08/04/14 07:29	08/05/14 16:07	5
2,6-Dinitrotoluene	<990		990	390	ug/Kg	☼	08/04/14 07:29	08/05/14 16:07	5
2-Chloronaphthalene	<990		990	220	ug/Kg	☼	08/04/14 07:29	08/05/14 16:07	5
2-Chlorophenol	<990		990	340	ug/Kg	☼	08/04/14 07:29	08/05/14 16:07	5
<b>2-Methylnaphthalene</b>	<b>120</b>	<b>J</b>	200	36	ug/Kg	☼	08/04/14 07:29	08/05/14 16:07	5
2-Methylphenol	<990		990	320	ug/Kg	☼	08/04/14 07:29	08/05/14 16:07	5
2-Nitroaniline	<990		990	260	ug/Kg	☼	08/04/14 07:29	08/05/14 16:07	5
2-Nitrophenol	<2000		2000	460	ug/Kg	☼	08/04/14 07:29	08/05/14 16:07	5
3 & 4 Methylphenol	<990		990	330	ug/Kg	☼	08/04/14 07:29	08/05/14 16:07	5
3,3'-Dichlorobenzidine	<990		990	280	ug/Kg	☼	08/04/14 07:29	08/05/14 16:07	5
3-Nitroaniline	<2000		2000	610	ug/Kg	☼	08/04/14 07:29	08/05/14 16:07	5
4,6-Dinitro-2-methylphenol	<2000		2000	1600	ug/Kg	☼	08/04/14 07:29	08/05/14 16:07	5
4-Bromophenyl phenyl ether	<990		990	260	ug/Kg	☼	08/04/14 07:29	08/05/14 16:07	5
4-Chloro-3-methylphenol	<2000		2000	670	ug/Kg	☼	08/04/14 07:29	08/05/14 16:07	5
4-Chloroaniline	<4000		4000	920	ug/Kg	☼	08/04/14 07:29	08/05/14 16:07	5
4-Chlorophenyl phenyl ether	<990		990	230	ug/Kg	☼	08/04/14 07:29	08/05/14 16:07	5
4-Nitroaniline	<2000		2000	820	ug/Kg	☼	08/04/14 07:29	08/05/14 16:07	5
4-Nitrophenol	<4000		4000	1900	ug/Kg	☼	08/04/14 07:29	08/05/14 16:07	5
<b>Acenaphthene</b>	<b>75</b>	<b>J</b>	200	35	ug/Kg	☼	08/04/14 07:29	08/05/14 16:07	5
Acenaphthylene	<200		200	26	ug/Kg	☼	08/04/14 07:29	08/05/14 16:07	5
<b>Anthracene</b>	<b>80</b>	<b>J</b>	200	33	ug/Kg	☼	08/04/14 07:29	08/05/14 16:07	5
<b>Benzo[a]anthracene</b>	<b>84</b>	<b>J</b>	200	26	ug/Kg	☼	08/04/14 07:29	08/05/14 16:07	5
<b>Benzo[a]pyrene</b>	<b>120</b>	<b>J</b>	200	38	ug/Kg	☼	08/04/14 07:29	08/05/14 16:07	5
<b>Benzo[b]fluoranthene</b>	<b>68</b>	<b>J</b>	200	42	ug/Kg	☼	08/04/14 07:29	08/05/14 16:07	5
<b>Benzo[g,h,i]perylene</b>	<b>480</b>		200	63	ug/Kg	☼	08/04/14 07:29	08/05/14 16:07	5
Benzo[k]fluoranthene	<200		200	58	ug/Kg	☼	08/04/14 07:29	08/05/14 16:07	5
Bis(2-chloroethoxy)methane	<990		990	200	ug/Kg	☼	08/04/14 07:29	08/05/14 16:07	5
Bis(2-chloroethyl)ether	<990		990	290	ug/Kg	☼	08/04/14 07:29	08/05/14 16:07	5
Bis(2-ethylhexyl) phthalate	<990		990	360	ug/Kg	☼	08/04/14 07:29	08/05/14 16:07	5
Butyl benzyl phthalate	<990		990	370	ug/Kg	☼	08/04/14 07:29	08/05/14 16:07	5
Carbazole	<990		990	510	ug/Kg	☼	08/04/14 07:29	08/05/14 16:07	5
<b>Chrysene</b>	<b>160</b>	<b>J</b>	200	54	ug/Kg	☼	08/04/14 07:29	08/05/14 16:07	5
<b>Dibenz(a,h)anthracene</b>	<b>60</b>	<b>J</b>	200	38	ug/Kg	☼	08/04/14 07:29	08/05/14 16:07	5
Dibenzofuran	<990		990	230	ug/Kg	☼	08/04/14 07:29	08/05/14 16:07	5
Diethyl phthalate	<990		990	330	ug/Kg	☼	08/04/14 07:29	08/05/14 16:07	5
Dimethyl phthalate	<990		990	260	ug/Kg	☼	08/04/14 07:29	08/05/14 16:07	5
Di-n-butyl phthalate	<990		990	300	ug/Kg	☼	08/04/14 07:29	08/05/14 16:07	5
Di-n-octyl phthalate	<990		990	320	ug/Kg	☼	08/04/14 07:29	08/05/14 16:07	5
<b>Fluoranthene</b>	<b>140</b>	<b>J</b>	200	36	ug/Kg	☼	08/04/14 07:29	08/05/14 16:07	5
<b>Fluorene</b>	<b>87</b>	<b>J</b>	200	28	ug/Kg	☼	08/04/14 07:29	08/05/14 16:07	5
Hexachlorobenzene	<400		400	46	ug/Kg	☼	08/04/14 07:29	08/05/14 16:07	5
Hexachlorobutadiene	<990		990	310	ug/Kg	☼	08/04/14 07:29	08/05/14 16:07	5
Hexachlorocyclopentadiene	<4000		4000	1100	ug/Kg	☼	08/04/14 07:29	08/05/14 16:07	5
Hexachloroethane	<990		990	300	ug/Kg	☼	08/04/14 07:29	08/05/14 16:07	5

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81071-1

**Client Sample ID: CP-4(6-12)-072214**

**Lab Sample ID: 500-81071-15**

**Date Collected: 07/22/14 10:45**

**Matrix: Solid**

**Date Received: 07/23/14 10:00**

**Percent Solids: 82.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Indeno[1,2,3-cd]pyrene</b>	<b>52</b>	<b>J</b>	200	51	ug/Kg	☼	08/04/14 07:29	08/05/14 16:07	5
Isophorone	<990		990	220	ug/Kg	☼	08/04/14 07:29	08/05/14 16:07	5
<b>Naphthalene</b>	<b>100</b>	<b>J</b>	200	30	ug/Kg	☼	08/04/14 07:29	08/05/14 16:07	5
Nitrobenzene	<200		200	49	ug/Kg	☼	08/04/14 07:29	08/05/14 16:07	5
N-Nitrosodi-n-propylamine	<990		990	240	ug/Kg	☼	08/04/14 07:29	08/05/14 16:07	5
N-Nitrosodiphenylamine	<990		990	230	ug/Kg	☼	08/04/14 07:29	08/05/14 16:07	5
Pentachlorophenol	<4000		4000	3200	ug/Kg	☼	08/04/14 07:29	08/05/14 16:07	5
<b>Phenanthrene</b>	<b>490</b>		200	27	ug/Kg	☼	08/04/14 07:29	08/05/14 16:07	5
Phenol	<990		990	440	ug/Kg	☼	08/04/14 07:29	08/05/14 16:07	5
<b>Pyrene</b>	<b>300</b>		200	39	ug/Kg	☼	08/04/14 07:29	08/05/14 16:07	5
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2,4,6-Tribromophenol	95		35 - 137				08/04/14 07:29	08/05/14 16:07	5
2-Fluorobiphenyl	73		25 - 119				08/04/14 07:29	08/05/14 16:07	5
2-Fluorophenol	70		25 - 110				08/04/14 07:29	08/05/14 16:07	5
Nitrobenzene-d5	59		25 - 115				08/04/14 07:29	08/05/14 16:07	5
Phenol-d5	73		31 - 110				08/04/14 07:29	08/05/14 16:07	5
Terphenyl-d14	88		36 - 134				08/04/14 07:29	08/05/14 16:07	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050	^	0.050	0.010	mg/L		08/02/14 09:00	08/04/14 19:35	1
<b>Barium</b>	<b>0.65</b>		0.50	0.050	mg/L		08/02/14 09:00	08/04/14 19:35	1
Beryllium	<0.0040	^	0.0040	0.0040	mg/L		08/02/14 09:00	08/04/14 19:35	1
<b>Cadmium</b>	<b>0.0026</b>	<b>J</b>	0.0050	0.0020	mg/L		08/02/14 09:00	08/04/14 19:35	1
Chromium	<0.025		0.025	0.010	mg/L		08/02/14 09:00	08/04/14 19:35	1
<b>Cobalt</b>	<b>0.023</b>	<b>J</b>	0.025	0.010	mg/L		08/02/14 09:00	08/05/14 18:30	1
<b>Copper</b>	<b>0.035</b>		0.025	0.010	mg/L		08/02/14 09:00	08/04/14 19:35	1
<b>Iron</b>	<b>0.22</b>		0.20	0.20	mg/L		08/02/14 09:00	08/04/14 19:35	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/02/14 09:00	08/04/14 19:35	1
<b>Manganese</b>	<b>8.8</b>		0.025	0.010	mg/L		08/02/14 09:00	08/04/14 19:35	1
<b>Nickel</b>	<b>0.024</b>	<b>J</b>	0.025	0.010	mg/L		08/02/14 09:00	08/04/14 19:35	1
<b>Selenium</b>	<b>0.013</b>	<b>J B</b>	0.050	0.010	mg/L		08/02/14 09:00	08/04/14 19:35	1
Silver	<0.025		0.025	0.010	mg/L		08/02/14 09:00	08/04/14 19:35	1
<b>Zinc</b>	<b>0.19</b>		0.10	0.020	mg/L		08/02/14 09:00	08/05/14 18:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.018</b>	<b>J</b>	0.050	0.010	mg/L		07/30/14 10:00	07/31/14 04:19	1
<b>Barium</b>	<b>0.29</b>	<b>J</b>	0.50	0.050	mg/L		07/30/14 10:00	07/31/14 04:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/30/14 10:00	07/31/14 04:19	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/30/14 10:00	07/31/14 04:19	1
<b>Chromium</b>	<b>0.052</b>		0.025	0.010	mg/L		07/30/14 10:00	07/31/14 04:19	1
<b>Cobalt</b>	<b>0.023</b>	<b>J</b>	0.025	0.010	mg/L		07/30/14 10:00	07/31/14 04:19	1
<b>Copper</b>	<b>0.083</b>		0.025	0.010	mg/L		07/30/14 10:00	07/31/14 04:19	1
<b>Iron</b>	<b>47</b>		0.20	0.20	mg/L		07/30/14 10:00	07/31/14 04:19	1
<b>Lead</b>	<b>0.088</b>		0.0075	0.0075	mg/L		07/30/14 10:00	07/31/14 04:19	1
<b>Manganese</b>	<b>0.71</b>		0.025	0.010	mg/L		07/30/14 10:00	07/31/14 04:19	1
<b>Nickel</b>	<b>0.055</b>		0.025	0.010	mg/L		07/30/14 10:00	07/31/14 04:19	1
Selenium	<0.050		0.050	0.010	mg/L		07/30/14 10:00	07/31/14 04:19	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81071-1

**Client Sample ID: CP-4(6-12)-072214**

**Lab Sample ID: 500-81071-15**

Date Collected: 07/22/14 10:45

Matrix: Solid

Date Received: 07/23/14 10:00

**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		07/30/14 10:00	07/31/14 04:19	1
<b>Zinc</b>	<b>0.17</b>		0.10	0.020	mg/L		07/30/14 10:00	07/31/14 04:19	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.46	mg/Kg	☼	07/30/14 17:15	08/01/14 04:37	1
<b>Arsenic</b>	<b>0.76</b>		0.57	0.11	mg/Kg	☼	07/30/14 17:15	08/01/14 04:37	1
<b>Barium</b>	<b>27</b>		0.57	0.061	mg/Kg	☼	07/30/14 17:15	08/01/14 04:37	1
Beryllium	<0.23		0.23	0.046	mg/Kg	☼	07/30/14 17:15	08/01/14 04:37	1
<b>Cadmium</b>	<b>0.099</b>	<b>J B</b>	0.11	0.014	mg/Kg	☼	07/30/14 17:15	08/01/14 04:37	1
<b>Calcium</b>	<b>57000</b>	<b>B</b>	57	15	mg/Kg	☼	07/30/14 17:15	08/01/14 15:54	5
<b>Chromium</b>	<b>1.1</b>	<b>B</b>	0.57	0.066	mg/Kg	☼	07/30/14 17:15	08/01/14 04:37	1
<b>Cobalt</b>	<b>0.66</b>		0.28	0.057	mg/Kg	☼	07/30/14 17:15	08/01/14 04:37	1
<b>Copper</b>	<b>2.7</b>		0.57	0.11	mg/Kg	☼	07/30/14 17:15	08/01/14 04:37	1
<b>Iron</b>	<b>1500</b>	<b>B</b>	11	4.7	mg/Kg	☼	07/30/14 17:15	08/01/14 04:37	1
<b>Lead</b>	<b>0.49</b>		0.28	0.085	mg/Kg	☼	07/30/14 17:15	08/01/14 04:37	1
<b>Magnesium</b>	<b>1500</b>	<b>B</b>	5.7	1.2	mg/Kg	☼	07/30/14 17:15	08/01/14 04:37	1
<b>Manganese</b>	<b>140</b>	<b>B</b>	0.57	0.11	mg/Kg	☼	07/30/14 17:15	08/01/14 04:37	1
<b>Nickel</b>	<b>2.0</b>		0.57	0.11	mg/Kg	☼	07/30/14 17:15	08/01/14 04:37	1
<b>Potassium</b>	<b>130</b>		28	1.7	mg/Kg	☼	07/30/14 17:15	08/01/14 04:37	1
<b>Selenium</b>	<b>0.67</b>		0.57	0.20	mg/Kg	☼	07/30/14 17:15	08/01/14 04:37	1
<b>Silver</b>	<b>0.036</b>	<b>J B</b>	0.28	0.021	mg/Kg	☼	07/30/14 17:15	08/01/14 04:37	1
<b>Sodium</b>	<b>840</b>		57	7.6	mg/Kg	☼	07/30/14 17:15	08/01/14 04:37	1
Thallium	<0.57		0.57	0.24	mg/Kg	☼	07/30/14 17:15	08/01/14 04:37	1
<b>Vanadium</b>	<b>1.7</b>		0.28	0.042	mg/Kg	☼	07/30/14 17:15	08/01/14 04:37	1
<b>Zinc</b>	<b>7.4</b>	<b>B</b>	1.1	0.23	mg/Kg	☼	07/30/14 17:15	08/01/14 04:37	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		08/04/14 12:00	08/05/14 08:39	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		07/30/14 12:00	07/31/14 10:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>51</b>		20	7.8	ug/Kg	☼	07/30/14 12:00	07/31/14 09:53	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.16</b>		0.200	0.200	SU			07/31/14 12:50	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81071-1

**Client Sample ID: CP-4(12-19)-072214**

**Lab Sample ID: 500-81071-16**

**Date Collected: 07/22/14 10:55**

**Matrix: Solid**

**Date Received: 07/23/14 10:00**

**Percent Solids: 25.5**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	150		20	8.5	ug/Kg	☼		07/25/14 18:41	1
Benzene	<20		20	2.7	ug/Kg	☼		07/25/14 18:41	1
Bromodichloromethane	<20		20	3.4	ug/Kg	☼		07/25/14 18:41	1
Bromoform	<20		20	4.5	ug/Kg	☼		07/25/14 18:41	1
Bromomethane	<20		20	5.9	ug/Kg	☼		07/25/14 18:41	1
Carbon disulfide	<20		20	2.9	ug/Kg	☼		07/25/14 18:41	1
Carbon tetrachloride	<20		20	3.6	ug/Kg	☼		07/25/14 18:41	1
Chlorobenzene	<20		20	2.0	ug/Kg	☼		07/25/14 18:41	1
Chloroethane	<20		20	5.3	ug/Kg	☼		07/25/14 18:41	1
Chloroform	<20		20	2.3	ug/Kg	☼		07/25/14 18:41	1
Chloromethane	<20		20	4.1	ug/Kg	☼		07/25/14 18:41	1
cis-1,2-Dichloroethene	<20		20	2.8	ug/Kg	☼		07/25/14 18:41	1
cis-1,3-Dichloropropene	<20		20	2.6	ug/Kg	☼		07/25/14 18:41	1
Dibromochloromethane	<20		20	3.4	ug/Kg	☼		07/25/14 18:41	1
1,1-Dichloroethane	<20		20	3.1	ug/Kg	☼		07/25/14 18:41	1
1,2-Dichloroethane	<20		20	2.9	ug/Kg	☼		07/25/14 18:41	1
1,1,1-Dichloroethane	<20		20	3.2	ug/Kg	☼		07/25/14 18:41	1
1,2-Dichloropropane	<20		20	3.0	ug/Kg	☼		07/25/14 18:41	1
1,3-Dichloropropene, Total	<20		20	2.6	ug/Kg	☼		07/25/14 18:41	1
Ethylbenzene	<20		20	4.0	ug/Kg	☼		07/25/14 18:41	1
2-Hexanone	<20		20	5.6	ug/Kg	☼		07/25/14 18:41	1
Methylene Chloride	<20		20	5.3	ug/Kg	☼		07/25/14 18:41	1
Methyl Ethyl Ketone	<20		20	7.1	ug/Kg	☼		07/25/14 18:41	1
methyl isobutyl ketone	<20		20	5.1	ug/Kg	☼		07/25/14 18:41	1
Methyl tert-butyl ether	<20		20	3.2	ug/Kg	☼		07/25/14 18:41	1
Styrene	<20		20	2.6	ug/Kg	☼		07/25/14 18:41	1
1,1,1,2-Tetrachloroethane	<20		20	4.0	ug/Kg	☼		07/25/14 18:41	1
Tetrachloroethene	<20		20	3.0	ug/Kg	☼		07/25/14 18:41	1
Toluene	<20		20	2.7	ug/Kg	☼		07/25/14 18:41	1
trans-1,2-Dichloroethene	<20		20	2.7	ug/Kg	☼		07/25/14 18:41	1
trans-1,3-Dichloropropene	<20		20	3.5	ug/Kg	☼		07/25/14 18:41	1
1,1,1-Trichloroethane	<20		20	2.9	ug/Kg	☼		07/25/14 18:41	1
1,1,2-Trichloroethane	<20		20	2.7	ug/Kg	☼		07/25/14 18:41	1
Trichloroethene	<20		20	3.2	ug/Kg	☼		07/25/14 18:41	1
Vinyl chloride	<20		20	4.1	ug/Kg	☼		07/25/14 18:41	1
Xylenes, Total	<39		39	1.8	ug/Kg	☼		07/25/14 18:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 122		07/25/14 18:41	1
Dibromofluoromethane	113		75 - 120		07/25/14 18:41	1
1,2-Dichloroethane-d4 (Surr)	114		70 - 134		07/25/14 18:41	1
Toluene-d8 (Surr)	100		75 - 122		07/25/14 18:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<3100		3100	670	ug/Kg	☼	08/04/14 07:29	08/05/14 16:28	5
1,2-Dichlorobenzene	<3100		3100	740	ug/Kg	☼	08/04/14 07:29	08/05/14 16:28	5
1,3-Dichlorobenzene	<3100		3100	700	ug/Kg	☼	08/04/14 07:29	08/05/14 16:28	5
1,4-Dichlorobenzene	<3100		3100	800	ug/Kg	☼	08/04/14 07:29	08/05/14 16:28	5
2,2'-oxybis[1-chloropropane]	<3100		3100	720	ug/Kg	☼	08/04/14 07:29	08/05/14 16:28	5

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81071-1

**Client Sample ID: CP-4(12-19)-072214**

**Lab Sample ID: 500-81071-16**

**Date Collected: 07/22/14 10:55**

**Matrix: Solid**

**Date Received: 07/23/14 10:00**

**Percent Solids: 25.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<6200		6200	1400	ug/Kg	☼	08/04/14 07:29	08/05/14 16:28	5
2,4,6-Trichlorophenol	<6200		6200	2100	ug/Kg	☼	08/04/14 07:29	08/05/14 16:28	5
2,4-Dichlorophenol	<6200		6200	1500	ug/Kg	☼	08/04/14 07:29	08/05/14 16:28	5
2,4-Dimethylphenol	<6200		6200	2400	ug/Kg	☼	08/04/14 07:29	08/05/14 16:28	5
2,4-Dinitrophenol	<13000		13000	11000	ug/Kg	☼	08/04/14 07:29	08/05/14 16:28	5
2,4-Dinitrotoluene	<3100		3100	990	ug/Kg	☼	08/04/14 07:29	08/05/14 16:28	5
2,6-Dinitrotoluene	<3100		3100	1200	ug/Kg	☼	08/04/14 07:29	08/05/14 16:28	5
2-Chloronaphthalene	<3100		3100	690	ug/Kg	☼	08/04/14 07:29	08/05/14 16:28	5
2-Chlorophenol	<3100		3100	1100	ug/Kg	☼	08/04/14 07:29	08/05/14 16:28	5
2-Methylnaphthalene	<620		620	110	ug/Kg	☼	08/04/14 07:29	08/05/14 16:28	5
2-Methylphenol	<3100		3100	1000	ug/Kg	☼	08/04/14 07:29	08/05/14 16:28	5
2-Nitroaniline	<3100		3100	840	ug/Kg	☼	08/04/14 07:29	08/05/14 16:28	5
2-Nitrophenol	<6200		6200	1500	ug/Kg	☼	08/04/14 07:29	08/05/14 16:28	5
3 & 4 Methylphenol	<3100		3100	1000	ug/Kg	☼	08/04/14 07:29	08/05/14 16:28	5
3,3'-Dichlorobenzidine	<3100		3100	870	ug/Kg	☼	08/04/14 07:29	08/05/14 16:28	5
3-Nitroaniline	<6200		6200	1900	ug/Kg	☼	08/04/14 07:29	08/05/14 16:28	5
4,6-Dinitro-2-methylphenol	<6200		6200	5000	ug/Kg	☼	08/04/14 07:29	08/05/14 16:28	5
4-Bromophenyl phenyl ether	<3100		3100	820	ug/Kg	☼	08/04/14 07:29	08/05/14 16:28	5
4-Chloro-3-methylphenol	<6200		6200	2100	ug/Kg	☼	08/04/14 07:29	08/05/14 16:28	5
4-Chloroaniline	<13000		13000	2900	ug/Kg	☼	08/04/14 07:29	08/05/14 16:28	5
4-Chlorophenyl phenyl ether	<3100		3100	730	ug/Kg	☼	08/04/14 07:29	08/05/14 16:28	5
4-Nitroaniline	<6200		6200	2600	ug/Kg	☼	08/04/14 07:29	08/05/14 16:28	5
4-Nitrophenol	<13000		13000	5900	ug/Kg	☼	08/04/14 07:29	08/05/14 16:28	5
Acenaphthene	<620		620	110	ug/Kg	☼	08/04/14 07:29	08/05/14 16:28	5
Acenaphthylene	<620		620	82	ug/Kg	☼	08/04/14 07:29	08/05/14 16:28	5
Anthracene	<620		620	100	ug/Kg	☼	08/04/14 07:29	08/05/14 16:28	5
Benzo[a]anthracene	<620		620	84	ug/Kg	☼	08/04/14 07:29	08/05/14 16:28	5
Benzo[a]pyrene	<620		620	120	ug/Kg	☼	08/04/14 07:29	08/05/14 16:28	5
Benzo[b]fluoranthene	<620		620	130	ug/Kg	☼	08/04/14 07:29	08/05/14 16:28	5
Benzo[g,h,i]perylene	<620		620	200	ug/Kg	☼	08/04/14 07:29	08/05/14 16:28	5
Benzo[k]fluoranthene	<620		620	180	ug/Kg	☼	08/04/14 07:29	08/05/14 16:28	5
Bis(2-chloroethoxy)methane	<3100		3100	630	ug/Kg	☼	08/04/14 07:29	08/05/14 16:28	5
Bis(2-chloroethyl)ether	<3100		3100	930	ug/Kg	☼	08/04/14 07:29	08/05/14 16:28	5
Bis(2-ethylhexyl) phthalate	<3100		3100	1100	ug/Kg	☼	08/04/14 07:29	08/05/14 16:28	5
Butyl benzyl phthalate	<3100		3100	1200	ug/Kg	☼	08/04/14 07:29	08/05/14 16:28	5
Carbazole	<3100		3100	1600	ug/Kg	☼	08/04/14 07:29	08/05/14 16:28	5
Chrysene	<620		620	170	ug/Kg	☼	08/04/14 07:29	08/05/14 16:28	5
Dibenz(a,h)anthracene	<620		620	120	ug/Kg	☼	08/04/14 07:29	08/05/14 16:28	5
Dibenzofuran	<3100		3100	730	ug/Kg	☼	08/04/14 07:29	08/05/14 16:28	5
Diethyl phthalate	<3100		3100	1100	ug/Kg	☼	08/04/14 07:29	08/05/14 16:28	5
Dimethyl phthalate	<3100		3100	810	ug/Kg	☼	08/04/14 07:29	08/05/14 16:28	5
Di-n-butyl phthalate	<3100		3100	950	ug/Kg	☼	08/04/14 07:29	08/05/14 16:28	5
Di-n-octyl phthalate	<3100		3100	1000	ug/Kg	☼	08/04/14 07:29	08/05/14 16:28	5
Fluoranthene	<620		620	120	ug/Kg	☼	08/04/14 07:29	08/05/14 16:28	5
Fluorene	<620		620	87	ug/Kg	☼	08/04/14 07:29	08/05/14 16:28	5
Hexachlorobenzene	<1300		1300	140	ug/Kg	☼	08/04/14 07:29	08/05/14 16:28	5
Hexachlorobutadiene	<3100		3100	980	ug/Kg	☼	08/04/14 07:29	08/05/14 16:28	5
Hexachlorocyclopentadiene	<13000		13000	3600	ug/Kg	☼	08/04/14 07:29	08/05/14 16:28	5
Hexachloroethane	<3100		3100	940	ug/Kg	☼	08/04/14 07:29	08/05/14 16:28	5

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81071-1

**Client Sample ID: CP-4(12-19)-072214**

**Lab Sample ID: 500-81071-16**

**Date Collected: 07/22/14 10:55**

**Matrix: Solid**

**Date Received: 07/23/14 10:00**

**Percent Solids: 25.5**

**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	<620		620	160	ug/Kg	☼	08/04/14 07:29	08/05/14 16:28	5
Isophorone	<3100		3100	700	ug/Kg	☼	08/04/14 07:29	08/05/14 16:28	5
Naphthalene	<620		620	96	ug/Kg	☼	08/04/14 07:29	08/05/14 16:28	5
Nitrobenzene	<620		620	150	ug/Kg	☼	08/04/14 07:29	08/05/14 16:28	5
N-Nitrosodi-n-propylamine	<3100		3100	760	ug/Kg	☼	08/04/14 07:29	08/05/14 16:28	5
N-Nitrosodiphenylamine	<3100		3100	730	ug/Kg	☼	08/04/14 07:29	08/05/14 16:28	5
Pentachlorophenol	<13000		13000	10000	ug/Kg	☼	08/04/14 07:29	08/05/14 16:28	5
Phenanthrene	<620		620	87	ug/Kg	☼	08/04/14 07:29	08/05/14 16:28	5
Phenol	<3100		3100	1400	ug/Kg	☼	08/04/14 07:29	08/05/14 16:28	5
Pyrene	<620		620	120	ug/Kg	☼	08/04/14 07:29	08/05/14 16:28	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	89		35 - 137				08/04/14 07:29	08/05/14 16:28	5
2-Fluorobiphenyl	69		25 - 119				08/04/14 07:29	08/05/14 16:28	5
2-Fluorophenol	71		25 - 110				08/04/14 07:29	08/05/14 16:28	5
Nitrobenzene-d5	44		25 - 115				08/04/14 07:29	08/05/14 16:28	5
Phenol-d5	85		31 - 110				08/04/14 07:29	08/05/14 16:28	5
Terphenyl-d14	93		36 - 134				08/04/14 07:29	08/05/14 16:28	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050	^	0.050	0.010	mg/L		08/02/14 09:00	08/04/14 19:40	1
<b>Barium</b>	<b>0.74</b>		0.50	0.050	mg/L		08/02/14 09:00	08/04/14 19:40	1
Beryllium	<0.0040	^	0.0040	0.0040	mg/L		08/02/14 09:00	08/04/14 19:40	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/02/14 09:00	08/04/14 19:40	1
Chromium	<0.025		0.025	0.010	mg/L		08/02/14 09:00	08/04/14 19:40	1
Cobalt	<0.025	^	0.025	0.010	mg/L		08/02/14 09:00	08/04/14 19:40	1
<b>Copper</b>	<b>0.017</b>	<b>J</b>	0.025	0.010	mg/L		08/02/14 09:00	08/04/14 19:40	1
Iron	<0.20		0.20	0.20	mg/L		08/02/14 09:00	08/04/14 19:40	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/02/14 09:00	08/04/14 19:40	1
<b>Manganese</b>	<b>3.1</b>		0.025	0.010	mg/L		08/02/14 09:00	08/04/14 19:40	1
<b>Nickel</b>	<b>0.010</b>	<b>J</b>	0.025	0.010	mg/L		08/02/14 09:00	08/04/14 19:40	1
<b>Selenium</b>	<b>0.015</b>	<b>J</b>	0.050	0.010	mg/L		08/02/14 09:00	08/04/14 19:40	1
Silver	<0.025		0.025	0.010	mg/L		08/02/14 09:00	08/04/14 19:40	1
<b>Zinc</b>	<b>0.13</b>	<b>B</b>	0.10	0.020	mg/L		08/02/14 09:00	08/05/14 18:36	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		07/30/14 10:00	07/31/14 04:25	1
<b>Barium</b>	<b>0.061</b>	<b>J</b>	0.50	0.050	mg/L		07/30/14 10:00	07/31/14 04:25	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/30/14 10:00	07/31/14 04:25	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/30/14 10:00	07/31/14 04:25	1
Chromium	<0.025		0.025	0.010	mg/L		07/30/14 10:00	07/31/14 04:25	1
Cobalt	<0.025		0.025	0.010	mg/L		07/30/14 10:00	07/31/14 04:25	1
<b>Copper</b>	<b>0.034</b>		0.025	0.010	mg/L		07/30/14 10:00	07/31/14 04:25	1
Iron	<0.20		0.20	0.20	mg/L		07/30/14 10:00	07/31/14 04:25	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/30/14 10:00	07/31/14 04:25	1
<b>Manganese</b>	<b>0.039</b>		0.025	0.010	mg/L		07/30/14 10:00	07/31/14 04:25	1
Nickel	<0.025		0.025	0.010	mg/L		07/30/14 10:00	07/31/14 04:25	1
Selenium	<0.050		0.050	0.010	mg/L		07/30/14 10:00	07/31/14 04:25	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81071-1

**Client Sample ID: CP-4(12-19)-072214**

**Lab Sample ID: 500-81071-16**

Date Collected: 07/22/14 10:55

Matrix: Solid

Date Received: 07/23/14 10:00

**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		07/30/14 10:00	07/31/14 04:25	1
Zinc	0.047	J	0.10	0.020	mg/L		07/30/14 10:00	07/31/14 04:25	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.4	J	3.6	1.4	mg/Kg	☼	07/30/14 17:15	08/01/14 04:42	1
Arsenic	10		1.8	0.36	mg/Kg	☼	07/30/14 17:15	08/01/14 04:42	1
Barium	130		1.8	0.19	mg/Kg	☼	07/30/14 17:15	08/01/14 04:42	1
Beryllium	1.5		0.72	0.14	mg/Kg	☼	07/30/14 17:15	08/01/14 04:42	1
Cadmium	0.16	J B	0.36	0.046	mg/Kg	☼	07/30/14 17:15	08/01/14 04:42	1
Calcium	270000	B	180	49	mg/Kg	☼	07/30/14 17:15	08/01/14 15:58	5
Chromium	46	B	1.8	0.21	mg/Kg	☼	07/30/14 17:15	08/01/14 04:42	1
Cobalt	37		0.90	0.18	mg/Kg	☼	07/30/14 17:15	08/01/14 04:42	1
Copper	74		1.8	0.36	mg/Kg	☼	07/30/14 17:15	08/01/14 04:42	1
Iron	56000	B	36	15	mg/Kg	☼	07/30/14 17:15	08/01/14 04:42	1
Lead	38		0.90	0.27	mg/Kg	☼	07/30/14 17:15	08/01/14 04:42	1
Magnesium	110000	B	18	3.7	mg/Kg	☼	07/30/14 17:15	08/01/14 04:42	1
Manganese	1400	B	1.8	0.36	mg/Kg	☼	07/30/14 17:15	08/01/14 04:42	1
Nickel	90		1.8	0.36	mg/Kg	☼	07/30/14 17:15	08/01/14 04:42	1
Potassium	6100		90	5.4	mg/Kg	☼	07/30/14 17:15	08/01/14 04:42	1
Selenium	1.5	J	1.8	0.64	mg/Kg	☼	07/30/14 17:15	08/01/14 04:42	1
Silver	<0.90		0.90	0.065	mg/Kg	☼	07/30/14 17:15	08/01/14 04:42	1
Sodium	470		180	24	mg/Kg	☼	07/30/14 17:15	08/01/14 04:42	1
Thallium	<1.8		1.8	0.76	mg/Kg	☼	07/30/14 17:15	08/01/14 04:42	1
Vanadium	52		0.90	0.13	mg/Kg	☼	07/30/14 17:15	08/01/14 04:42	1
Zinc	170	B	3.6	0.73	mg/Kg	☼	07/30/14 17:15	08/01/14 04:42	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		08/04/14 12:00	08/05/14 08:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		07/30/14 12:00	07/31/14 10:13	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	<60		60	24	ug/Kg	☼	07/30/14 12:00	07/31/14 09:55	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.46		0.200	0.200	SU			07/31/14 12:52	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81071-1

**Client Sample ID: CP-4(19-26)-072214**

**Lab Sample ID: 500-81071-17**

**Date Collected: 07/22/14 11:00**

**Matrix: Solid**

**Date Received: 07/23/14 10:00**

**Percent Solids: 85.3**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	9.3		5.9	2.5	ug/Kg	☼		07/25/14 19:04	1
Benzene	<5.9		5.9	0.80	ug/Kg	☼		07/25/14 19:04	1
Bromodichloromethane	<5.9		5.9	1.0	ug/Kg	☼		07/25/14 19:04	1
Bromoform	<5.9		5.9	1.3	ug/Kg	☼		07/25/14 19:04	1
Bromomethane	<5.9		5.9	1.8	ug/Kg	☼		07/25/14 19:04	1
Carbon disulfide	<5.9		5.9	0.88	ug/Kg	☼		07/25/14 19:04	1
Carbon tetrachloride	<5.9		5.9	1.1	ug/Kg	☼		07/25/14 19:04	1
Chlorobenzene	<5.9		5.9	0.59	ug/Kg	☼		07/25/14 19:04	1
Chloroethane	<5.9		5.9	1.6	ug/Kg	☼		07/25/14 19:04	1
Chloroform	<5.9		5.9	0.67	ug/Kg	☼		07/25/14 19:04	1
Chloromethane	<5.9		5.9	1.2	ug/Kg	☼		07/25/14 19:04	1
cis-1,2-Dichloroethene	<5.9		5.9	0.83	ug/Kg	☼		07/25/14 19:04	1
cis-1,3-Dichloropropene	<5.9		5.9	0.77	ug/Kg	☼		07/25/14 19:04	1
Dibromochloromethane	<5.9		5.9	1.0	ug/Kg	☼		07/25/14 19:04	1
1,1-Dichloroethane	<5.9		5.9	0.93	ug/Kg	☼		07/25/14 19:04	1
1,2-Dichloroethane	<5.9		5.9	0.87	ug/Kg	☼		07/25/14 19:04	1
1,1-Dichloroethene	<5.9		5.9	0.95	ug/Kg	☼		07/25/14 19:04	1
1,2-Dichloropropane	<5.9		5.9	0.89	ug/Kg	☼		07/25/14 19:04	1
1,3-Dichloropropene, Total	<5.9		5.9	0.77	ug/Kg	☼		07/25/14 19:04	1
Ethylbenzene	<5.9		5.9	1.2	ug/Kg	☼		07/25/14 19:04	1
2-Hexanone	<5.9		5.9	1.7	ug/Kg	☼		07/25/14 19:04	1
Methylene Chloride	<5.9		5.9	1.6	ug/Kg	☼		07/25/14 19:04	1
Methyl Ethyl Ketone	<5.9		5.9	2.1	ug/Kg	☼		07/25/14 19:04	1
methyl isobutyl ketone	<5.9		5.9	1.5	ug/Kg	☼		07/25/14 19:04	1
Methyl tert-butyl ether	<5.9		5.9	0.97	ug/Kg	☼		07/25/14 19:04	1
Styrene	<5.9		5.9	0.77	ug/Kg	☼		07/25/14 19:04	1
1,1,2,2-Tetrachloroethane	<5.9		5.9	1.2	ug/Kg	☼		07/25/14 19:04	1
Tetrachloroethene	<5.9		5.9	0.90	ug/Kg	☼		07/25/14 19:04	1
Toluene	<5.9		5.9	0.82	ug/Kg	☼		07/25/14 19:04	1
trans-1,2-Dichloroethene	<5.9		5.9	0.81	ug/Kg	☼		07/25/14 19:04	1
trans-1,3-Dichloropropene	<5.9		5.9	1.1	ug/Kg	☼		07/25/14 19:04	1
1,1,1-Trichloroethane	<5.9		5.9	0.88	ug/Kg	☼		07/25/14 19:04	1
1,1,2-Trichloroethane	<5.9		5.9	0.80	ug/Kg	☼		07/25/14 19:04	1
Trichloroethene	<5.9		5.9	0.97	ug/Kg	☼		07/25/14 19:04	1
Vinyl chloride	<5.9		5.9	1.2	ug/Kg	☼		07/25/14 19:04	1
Xylenes, Total	<12		12	0.53	ug/Kg	☼		07/25/14 19:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 122		07/25/14 19:04	1
Dibromofluoromethane	103		75 - 120		07/25/14 19:04	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 134		07/25/14 19:04	1
Toluene-d8 (Surr)	103		75 - 122		07/25/14 19:04	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	☼	08/04/14 07:29	08/05/14 16:49	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	08/04/14 07:29	08/05/14 16:49	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	08/04/14 07:29	08/05/14 16:49	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	08/04/14 07:29	08/05/14 16:49	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	08/04/14 07:29	08/05/14 16:49	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81071-1

**Client Sample ID: CP-4(19-26)-072214**

**Lab Sample ID: 500-81071-17**

**Date Collected: 07/22/14 11:00**

**Matrix: Solid**

**Date Received: 07/23/14 10:00**

**Percent Solids: 85.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	85	ug/Kg	☼	08/04/14 07:29	08/05/14 16:49	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	08/04/14 07:29	08/05/14 16:49	1
2,4-Dichlorophenol	<370		370	89	ug/Kg	☼	08/04/14 07:29	08/05/14 16:49	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	08/04/14 07:29	08/05/14 16:49	1
2,4-Dinitrophenol	<750		750	660	ug/Kg	☼	08/04/14 07:29	08/05/14 16:49	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	08/04/14 07:29	08/05/14 16:49	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	08/04/14 07:29	08/05/14 16:49	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	08/04/14 07:29	08/05/14 16:49	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	08/04/14 07:29	08/05/14 16:49	1
2-Methylnaphthalene	<37		37	6.9	ug/Kg	☼	08/04/14 07:29	08/05/14 16:49	1
2-Methylphenol	<190		190	60	ug/Kg	☼	08/04/14 07:29	08/05/14 16:49	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	08/04/14 07:29	08/05/14 16:49	1
2-Nitrophenol	<370		370	88	ug/Kg	☼	08/04/14 07:29	08/05/14 16:49	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	08/04/14 07:29	08/05/14 16:49	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	08/04/14 07:29	08/05/14 16:49	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	08/04/14 07:29	08/05/14 16:49	1
4,6-Dinitro-2-methylphenol	<370		370	300	ug/Kg	☼	08/04/14 07:29	08/05/14 16:49	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	08/04/14 07:29	08/05/14 16:49	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	08/04/14 07:29	08/05/14 16:49	1
4-Chloroaniline	<750		750	180	ug/Kg	☼	08/04/14 07:29	08/05/14 16:49	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	08/04/14 07:29	08/05/14 16:49	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	08/04/14 07:29	08/05/14 16:49	1
4-Nitrophenol	<750		750	350	ug/Kg	☼	08/04/14 07:29	08/05/14 16:49	1
Acenaphthene	<37		37	6.7	ug/Kg	☼	08/04/14 07:29	08/05/14 16:49	1
Acenaphthylene	<37		37	4.9	ug/Kg	☼	08/04/14 07:29	08/05/14 16:49	1
Anthracene	<37		37	6.2	ug/Kg	☼	08/04/14 07:29	08/05/14 16:49	1
Benzo[a]anthracene	<37		37	5.0	ug/Kg	☼	08/04/14 07:29	08/05/14 16:49	1
Benzo[a]pyrene	<37		37	7.2	ug/Kg	☼	08/04/14 07:29	08/05/14 16:49	1
Benzo[b]fluoranthene	<37		37	8.1	ug/Kg	☼	08/04/14 07:29	08/05/14 16:49	1
Benzo[g,h,i]perylene	<37		37	12	ug/Kg	☼	08/04/14 07:29	08/05/14 16:49	1
Benzo[k]fluoranthene	<37		37	11	ug/Kg	☼	08/04/14 07:29	08/05/14 16:49	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	08/04/14 07:29	08/05/14 16:49	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	08/04/14 07:29	08/05/14 16:49	1
Bis(2-ethylhexyl) phthalate	<190		190	68	ug/Kg	☼	08/04/14 07:29	08/05/14 16:49	1
Butyl benzyl phthalate	<190		190	71	ug/Kg	☼	08/04/14 07:29	08/05/14 16:49	1
Carbazole	<190		190	96	ug/Kg	☼	08/04/14 07:29	08/05/14 16:49	1
Chrysene	<37		37	10	ug/Kg	☼	08/04/14 07:29	08/05/14 16:49	1
Dibenz(a,h)anthracene	<37		37	7.2	ug/Kg	☼	08/04/14 07:29	08/05/14 16:49	1
Dibenzofuran	<190		190	44	ug/Kg	☼	08/04/14 07:29	08/05/14 16:49	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	08/04/14 07:29	08/05/14 16:49	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	08/04/14 07:29	08/05/14 16:49	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	08/04/14 07:29	08/05/14 16:49	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	08/04/14 07:29	08/05/14 16:49	1
Fluoranthene	<37		37	6.9	ug/Kg	☼	08/04/14 07:29	08/05/14 16:49	1
Fluorene	<37		37	5.2	ug/Kg	☼	08/04/14 07:29	08/05/14 16:49	1
Hexachlorobenzene	<75		75	8.6	ug/Kg	☼	08/04/14 07:29	08/05/14 16:49	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	08/04/14 07:29	08/05/14 16:49	1
Hexachlorocyclopentadiene	<750		750	210	ug/Kg	☼	08/04/14 07:29	08/05/14 16:49	1
Hexachloroethane	<190		190	57	ug/Kg	☼	08/04/14 07:29	08/05/14 16:49	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81071-1

**Client Sample ID: CP-4(19-26)-072214**

**Lab Sample ID: 500-81071-17**

**Date Collected: 07/22/14 11:00**

**Matrix: Solid**

**Date Received: 07/23/14 10:00**

**Percent Solids: 85.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<37		37	9.7	ug/Kg	☼	08/04/14 07:29	08/05/14 16:49	1
Isophorone	<190		190	42	ug/Kg	☼	08/04/14 07:29	08/05/14 16:49	1
Naphthalene	<37		37	5.7	ug/Kg	☼	08/04/14 07:29	08/05/14 16:49	1
Nitrobenzene	<37		37	9.3	ug/Kg	☼	08/04/14 07:29	08/05/14 16:49	1
N-Nitrosodi-n-propylamine	<190		190	46	ug/Kg	☼	08/04/14 07:29	08/05/14 16:49	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	08/04/14 07:29	08/05/14 16:49	1
Pentachlorophenol	<750		750	600	ug/Kg	☼	08/04/14 07:29	08/05/14 16:49	1
Phenanthrene	<37		37	5.2	ug/Kg	☼	08/04/14 07:29	08/05/14 16:49	1
Phenol	<190		190	83	ug/Kg	☼	08/04/14 07:29	08/05/14 16:49	1
Pyrene	<37		37	7.4	ug/Kg	☼	08/04/14 07:29	08/05/14 16:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	78		35 - 137				08/04/14 07:29	08/05/14 16:49	1
2-Fluorobiphenyl	72		25 - 119				08/04/14 07:29	08/05/14 16:49	1
2-Fluorophenol	63		25 - 110				08/04/14 07:29	08/05/14 16:49	1
Nitrobenzene-d5	56		25 - 115				08/04/14 07:29	08/05/14 16:49	1
Phenol-d5	69		31 - 110				08/04/14 07:29	08/05/14 16:49	1
Terphenyl-d14	72		36 - 134				08/04/14 07:29	08/05/14 16:49	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		08/02/14 09:00	08/04/14 19:45	1
<b>Barium</b>	<b>0.68</b>		0.50	0.050	mg/L		08/02/14 09:00	08/04/14 19:45	1
Beryllium	<0.0040	^	0.0040	0.0040	mg/L		08/02/14 09:00	08/04/14 19:45	1
<b>Cadmium</b>	<b>0.0020</b>	<b>J</b>	0.0050	0.0020	mg/L		08/02/14 09:00	08/04/14 19:45	1
Chromium	<0.025		0.025	0.010	mg/L		08/02/14 09:00	08/04/14 19:45	1
<b>Cobalt</b>	<b>0.013</b>	<b>J ^</b>	0.025	0.010	mg/L		08/02/14 09:00	08/04/14 19:45	1
<b>Copper</b>	<b>0.025</b>		0.025	0.010	mg/L		08/02/14 09:00	08/04/14 19:45	1
Iron	<0.20		0.20	0.20	mg/L		08/02/14 09:00	08/04/14 19:45	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/02/14 09:00	08/04/14 19:45	1
<b>Manganese</b>	<b>2.3</b>		0.025	0.010	mg/L		08/02/14 09:00	08/04/14 19:45	1
<b>Nickel</b>	<b>0.054</b>		0.025	0.010	mg/L		08/02/14 09:00	08/04/14 19:45	1
<b>Selenium</b>	<b>0.013</b>	<b>J B</b>	0.050	0.010	mg/L		08/02/14 09:00	08/04/14 19:45	1
Silver	<0.025		0.025	0.010	mg/L		08/02/14 09:00	08/04/14 19:45	1
<b>Zinc</b>	<b>0.13</b>		0.10	0.020	mg/L		08/02/14 09:00	08/05/14 18:42	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		07/30/14 10:00	07/31/14 04:32	1
<b>Barium</b>	<b>0.052</b>	<b>J</b>	0.50	0.050	mg/L		07/30/14 10:00	07/31/14 04:32	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/30/14 10:00	07/31/14 04:32	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/30/14 10:00	07/31/14 04:32	1
Chromium	<0.025		0.025	0.010	mg/L		07/30/14 10:00	07/31/14 04:32	1
Cobalt	<0.025		0.025	0.010	mg/L		07/30/14 10:00	07/31/14 04:32	1
Copper	<0.025		0.025	0.010	mg/L		07/30/14 10:00	07/31/14 04:32	1
<b>Iron</b>	<b>0.46</b>		0.20	0.20	mg/L		07/30/14 10:00	07/31/14 04:32	1
Lead	<0.0075		0.0075	0.0075	mg/L		07/30/14 10:00	07/31/14 04:32	1
<b>Manganese</b>	<b>0.063</b>		0.025	0.010	mg/L		07/30/14 10:00	07/31/14 04:32	1
Nickel	<0.025		0.025	0.010	mg/L		07/30/14 10:00	07/31/14 04:32	1
Selenium	<0.050		0.050	0.010	mg/L		07/30/14 10:00	07/31/14 04:32	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81071-1

**Client Sample ID: CP-4(19-26)-072214**

**Lab Sample ID: 500-81071-17**

Date Collected: 07/22/14 11:00

Matrix: Solid

Date Received: 07/23/14 10:00

**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		07/30/14 10:00	07/31/14 04:32	1
Zinc	<0.10		0.10	0.020	mg/L		07/30/14 10:00	07/31/14 04:32	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.43	mg/Kg	☼	07/30/14 17:15	08/01/14 04:47	1
Arsenic	2.3		0.53	0.11	mg/Kg	☼	07/30/14 17:15	08/01/14 04:47	1
Barium	44		0.53	0.057	mg/Kg	☼	07/30/14 17:15	08/01/14 04:47	1
Beryllium	0.47		0.21	0.043	mg/Kg	☼	07/30/14 17:15	08/01/14 04:47	1
Cadmium	0.035	J B	0.11	0.014	mg/Kg	☼	07/30/14 17:15	08/01/14 04:47	1
Calcium	80000	B	53	14	mg/Kg	☼	07/30/14 17:15	08/01/14 16:02	5
Chromium	15	B	0.53	0.062	mg/Kg	☼	07/30/14 17:15	08/01/14 04:47	1
Cobalt	11		0.27	0.053	mg/Kg	☼	07/30/14 17:15	08/01/14 04:47	1
Copper	22		0.53	0.11	mg/Kg	☼	07/30/14 17:15	08/01/14 04:47	1
Iron	17000	B	11	4.4	mg/Kg	☼	07/30/14 17:15	08/01/14 04:47	1
Lead	13		0.27	0.079	mg/Kg	☼	07/30/14 17:15	08/01/14 04:47	1
Magnesium	32000	B	5.3	1.1	mg/Kg	☼	07/30/14 17:15	08/01/14 04:47	1
Manganese	390	B	0.53	0.11	mg/Kg	☼	07/30/14 17:15	08/01/14 04:47	1
Nickel	28		0.53	0.11	mg/Kg	☼	07/30/14 17:15	08/01/14 04:47	1
Potassium	2000		27	1.6	mg/Kg	☼	07/30/14 17:15	08/01/14 04:47	1
Selenium	0.34	J	0.53	0.19	mg/Kg	☼	07/30/14 17:15	08/01/14 04:47	1
Silver	0.019	J B	0.27	0.019	mg/Kg	☼	07/30/14 17:15	08/01/14 04:47	1
Sodium	140		53	7.1	mg/Kg	☼	07/30/14 17:15	08/01/14 04:47	1
Thallium	<0.53		0.53	0.22	mg/Kg	☼	07/30/14 17:15	08/01/14 04:47	1
Vanadium	16		0.27	0.039	mg/Kg	☼	07/30/14 17:15	08/01/14 04:47	1
Zinc	54	B	1.1	0.22	mg/Kg	☼	07/30/14 17:15	08/01/14 04:47	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		08/04/14 12:00	08/05/14 08:43	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		07/30/14 12:00	07/31/14 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	20		17	6.6	ug/Kg	☼	07/30/14 12:00	07/31/14 09:57	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.16		0.200	0.200	SU			07/31/14 12:54	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81071-1

**Client Sample ID: CP-6(0-4)-072214**

**Lab Sample ID: 500-81071-19**

Date Collected: 07/22/14 11:35

Matrix: Solid

Date Received: 07/23/14 10:00

Percent Solids: 85.0

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<5.9		5.9	0.81	ug/Kg	☼		07/25/14 19:49	1
Bromodichloromethane	<5.9		5.9	1.0	ug/Kg	☼		07/25/14 19:49	1
Bromoform	<5.9		5.9	1.4	ug/Kg	☼		07/25/14 19:49	1
Bromomethane	<5.9		5.9	1.8	ug/Kg	☼		07/25/14 19:49	1
Carbon disulfide	<5.9		5.9	0.88	ug/Kg	☼		07/25/14 19:49	1
Carbon tetrachloride	<5.9		5.9	1.1	ug/Kg	☼		07/25/14 19:49	1
Chlorobenzene	<5.9		5.9	0.60	ug/Kg	☼		07/25/14 19:49	1
Chloroethane	<5.9		5.9	1.6	ug/Kg	☼		07/25/14 19:49	1
Chloroform	<5.9		5.9	0.68	ug/Kg	☼		07/25/14 19:49	1
Chloromethane	<5.9		5.9	1.2	ug/Kg	☼		07/25/14 19:49	1
cis-1,2-Dichloroethene	<5.9		5.9	0.83	ug/Kg	☼		07/25/14 19:49	1
cis-1,3-Dichloropropene	<5.9		5.9	0.77	ug/Kg	☼		07/25/14 19:49	1
Dibromochloromethane	<5.9		5.9	1.0	ug/Kg	☼		07/25/14 19:49	1
1,1-Dichloroethane	<5.9		5.9	0.93	ug/Kg	☼		07/25/14 19:49	1
1,2-Dichloroethane	<5.9		5.9	0.87	ug/Kg	☼		07/25/14 19:49	1
1,1-Dichloroethene	<5.9		5.9	0.95	ug/Kg	☼		07/25/14 19:49	1
1,2-Dichloropropane	<5.9		5.9	0.89	ug/Kg	☼		07/25/14 19:49	1
1,3-Dichloropropene, Total	<5.9		5.9	0.77	ug/Kg	☼		07/25/14 19:49	1
Ethylbenzene	<5.9		5.9	1.2	ug/Kg	☼		07/25/14 19:49	1
2-Hexanone	<5.9		5.9	1.7	ug/Kg	☼		07/25/14 19:49	1
Methylene Chloride	<5.9		5.9	1.6	ug/Kg	☼		07/25/14 19:49	1
<b>Methyl Ethyl Ketone</b>	<b>64</b>		5.9	2.1	ug/Kg	☼		07/25/14 19:49	1
methyl isobutyl ketone	<5.9		5.9	1.5	ug/Kg	☼		07/25/14 19:49	1
Methyl tert-butyl ether	<5.9		5.9	0.97	ug/Kg	☼		07/25/14 19:49	1
Styrene	<5.9		5.9	0.77	ug/Kg	☼		07/25/14 19:49	1
1,1,2,2-Tetrachloroethane	<5.9		5.9	1.2	ug/Kg	☼		07/25/14 19:49	1
Tetrachloroethene	<5.9		5.9	0.90	ug/Kg	☼		07/25/14 19:49	1
Toluene	<5.9		5.9	0.82	ug/Kg	☼		07/25/14 19:49	1
trans-1,2-Dichloroethene	<5.9		5.9	0.81	ug/Kg	☼		07/25/14 19:49	1
trans-1,3-Dichloropropene	<5.9		5.9	1.1	ug/Kg	☼		07/25/14 19:49	1
1,1,1-Trichloroethane	<5.9		5.9	0.88	ug/Kg	☼		07/25/14 19:49	1
1,1,2-Trichloroethane	<5.9		5.9	0.80	ug/Kg	☼		07/25/14 19:49	1
Trichloroethene	<5.9		5.9	0.97	ug/Kg	☼		07/25/14 19:49	1
Vinyl chloride	<5.9		5.9	1.2	ug/Kg	☼		07/25/14 19:49	1
Xylenes, Total	<12		12	0.53	ug/Kg	☼		07/25/14 19:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122		07/25/14 19:49	1
Dibromofluoromethane	111		75 - 120		07/25/14 19:49	1
1,2-Dichloroethane-d4 (Surr)	109		70 - 134		07/25/14 19:49	1
Toluene-d8 (Surr)	99		75 - 122		07/25/14 19:49	1

**Method: 8260B - VOC - DL**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>600</b>		29	13	ug/Kg	☼		07/29/14 12:55	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122		07/29/14 12:55	5
Dibromofluoromethane	111		75 - 120		07/29/14 12:55	5
1,2-Dichloroethane-d4 (Surr)	109		70 - 134		07/29/14 12:55	5

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81071-1

**Client Sample ID: CP-6(0-4)-072214**

**Lab Sample ID: 500-81071-19**

Date Collected: 07/22/14 11:35

Matrix: Solid

Date Received: 07/23/14 10:00

Percent Solids: 85.0

**Method: 8260B - VOC - DL (Continued)**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	94		75 - 122		07/29/14 12:55	5

**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	☼	08/04/14 07:29	08/05/14 17:31	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	08/04/14 07:29	08/05/14 17:31	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	08/04/14 07:29	08/05/14 17:31	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	08/04/14 07:29	08/05/14 17:31	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	08/04/14 07:29	08/05/14 17:31	1
2,4,5-Trichlorophenol	<370		370	85	ug/Kg	☼	08/04/14 07:29	08/05/14 17:31	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	08/04/14 07:29	08/05/14 17:31	1
2,4-Dichlorophenol	<370		370	89	ug/Kg	☼	08/04/14 07:29	08/05/14 17:31	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	08/04/14 07:29	08/05/14 17:31	1
2,4-Dinitrophenol	<750		750	660	ug/Kg	☼	08/04/14 07:29	08/05/14 17:31	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	08/04/14 07:29	08/05/14 17:31	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	08/04/14 07:29	08/05/14 17:31	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	08/04/14 07:29	08/05/14 17:31	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	08/04/14 07:29	08/05/14 17:31	1
2-Methylnaphthalene	<37		37	6.9	ug/Kg	☼	08/04/14 07:29	08/05/14 17:31	1
2-Methylphenol	<190		190	60	ug/Kg	☼	08/04/14 07:29	08/05/14 17:31	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	08/04/14 07:29	08/05/14 17:31	1
2-Nitrophenol	<370		370	88	ug/Kg	☼	08/04/14 07:29	08/05/14 17:31	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	08/04/14 07:29	08/05/14 17:31	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	08/04/14 07:29	08/05/14 17:31	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	08/04/14 07:29	08/05/14 17:31	1
4,6-Dinitro-2-methylphenol	<370		370	300	ug/Kg	☼	08/04/14 07:29	08/05/14 17:31	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	08/04/14 07:29	08/05/14 17:31	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	08/04/14 07:29	08/05/14 17:31	1
4-Chloroaniline	<750		750	180	ug/Kg	☼	08/04/14 07:29	08/05/14 17:31	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	08/04/14 07:29	08/05/14 17:31	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	08/04/14 07:29	08/05/14 17:31	1
4-Nitrophenol	<750		750	360	ug/Kg	☼	08/04/14 07:29	08/05/14 17:31	1
Acenaphthene	<37		37	6.7	ug/Kg	☼	08/04/14 07:29	08/05/14 17:31	1
Acenaphthylene	<37		37	4.9	ug/Kg	☼	08/04/14 07:29	08/05/14 17:31	1
Anthracene	<37		37	6.2	ug/Kg	☼	08/04/14 07:29	08/05/14 17:31	1
<b>Benzo[a]anthracene</b>	<b>14 J</b>		37	5.0	ug/Kg	☼	08/04/14 07:29	08/05/14 17:31	1
<b>Benzo[a]pyrene</b>	<b>15 J</b>		37	7.2	ug/Kg	☼	08/04/14 07:29	08/05/14 17:31	1
<b>Benzo[b]fluoranthene</b>	<b>22 J</b>		37	8.1	ug/Kg	☼	08/04/14 07:29	08/05/14 17:31	1
<b>Benzo[g,h,i]perylene</b>	<b>17 J</b>		37	12	ug/Kg	☼	08/04/14 07:29	08/05/14 17:31	1
<b>Benzo[k]fluoranthene</b>	<b>13 J</b>		37	11	ug/Kg	☼	08/04/14 07:29	08/05/14 17:31	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	08/04/14 07:29	08/05/14 17:31	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	08/04/14 07:29	08/05/14 17:31	1
Bis(2-ethylhexyl) phthalate	<190		190	68	ug/Kg	☼	08/04/14 07:29	08/05/14 17:31	1
Butyl benzyl phthalate	<190		190	71	ug/Kg	☼	08/04/14 07:29	08/05/14 17:31	1
Carbazole	<190		190	96	ug/Kg	☼	08/04/14 07:29	08/05/14 17:31	1
<b>Chrysene</b>	<b>19 J</b>		37	10	ug/Kg	☼	08/04/14 07:29	08/05/14 17:31	1
Dibenz(a,h)anthracene	<37		37	7.2	ug/Kg	☼	08/04/14 07:29	08/05/14 17:31	1
Dibenzofuran	<190		190	44	ug/Kg	☼	08/04/14 07:29	08/05/14 17:31	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	08/04/14 07:29	08/05/14 17:31	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81071-1

**Client Sample ID: CP-6(0-4)-072214**

**Lab Sample ID: 500-81071-19**

Date Collected: 07/22/14 11:35

Matrix: Solid

Date Received: 07/23/14 10:00

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	<190		190	49	ug/Kg	☼	08/04/14 07:29	08/05/14 17:31	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	08/04/14 07:29	08/05/14 17:31	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	08/04/14 07:29	08/05/14 17:31	1
<b>Fluoranthene</b>	<b>21</b>	<b>J</b>	37	6.9	ug/Kg	☼	08/04/14 07:29	08/05/14 17:31	1
Fluorene	<37		37	5.3	ug/Kg	☼	08/04/14 07:29	08/05/14 17:31	1
Hexachlorobenzene	<75		75	8.7	ug/Kg	☼	08/04/14 07:29	08/05/14 17:31	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	08/04/14 07:29	08/05/14 17:31	1
Hexachlorocyclopentadiene	<750		750	210	ug/Kg	☼	08/04/14 07:29	08/05/14 17:31	1
Hexachloroethane	<190		190	57	ug/Kg	☼	08/04/14 07:29	08/05/14 17:31	1
Indeno[1,2,3-cd]pyrene	<37		37	9.7	ug/Kg	☼	08/04/14 07:29	08/05/14 17:31	1
Isophorone	<190		190	42	ug/Kg	☼	08/04/14 07:29	08/05/14 17:31	1
Naphthalene	<37		37	5.7	ug/Kg	☼	08/04/14 07:29	08/05/14 17:31	1
Nitrobenzene	<37		37	9.3	ug/Kg	☼	08/04/14 07:29	08/05/14 17:31	1
N-Nitrosodi-n-propylamine	<190		190	46	ug/Kg	☼	08/04/14 07:29	08/05/14 17:31	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	08/04/14 07:29	08/05/14 17:31	1
Pentachlorophenol	<750		750	600	ug/Kg	☼	08/04/14 07:29	08/05/14 17:31	1
Phenanthrene	<37		37	5.2	ug/Kg	☼	08/04/14 07:29	08/05/14 17:31	1
Phenol	<190		190	83	ug/Kg	☼	08/04/14 07:29	08/05/14 17:31	1
<b>Pyrene</b>	<b>34</b>	<b>J</b>	37	7.4	ug/Kg	☼	08/04/14 07:29	08/05/14 17:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	77		35 - 137	08/04/14 07:29	08/05/14 17:31	1
2-Fluorobiphenyl	72		25 - 119	08/04/14 07:29	08/05/14 17:31	1
2-Fluorophenol	58		25 - 110	08/04/14 07:29	08/05/14 17:31	1
Nitrobenzene-d5	46		25 - 115	08/04/14 07:29	08/05/14 17:31	1
Phenol-d5	63		31 - 110	08/04/14 07:29	08/05/14 17:31	1
Terphenyl-d14	80		36 - 134	08/04/14 07:29	08/05/14 17:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050	^	0.050	0.010	mg/L		08/02/14 09:00	08/04/14 20:30	1
<b>Barium</b>	<b>0.62</b>		0.50	0.050	mg/L		08/02/14 09:00	08/04/14 20:30	1
Beryllium	<0.0040	^	0.0040	0.0040	mg/L		08/02/14 09:00	08/04/14 20:30	1
<b>Cadmium</b>	<b>0.0046</b>	<b>J</b>	0.0050	0.0020	mg/L		08/02/14 09:00	08/04/14 20:30	1
Chromium	<0.025		0.025	0.010	mg/L		08/02/14 09:00	08/04/14 20:30	1
<b>Cobalt</b>	<b>0.030</b>		0.025	0.010	mg/L		08/02/14 09:00	08/05/14 15:55	1
<b>Copper</b>	<b>0.023</b>	<b>J</b>	0.025	0.010	mg/L		08/02/14 09:00	08/04/14 20:30	1
<b>Iron</b>	<b>0.76</b>		0.20	0.20	mg/L		08/02/14 09:00	08/04/14 20:30	1
<b>Lead</b>	<b>0.027</b>		0.0075	0.0075	mg/L		08/02/14 09:00	08/04/14 20:30	1
<b>Manganese</b>	<b>12</b>		0.025	0.010	mg/L		08/02/14 09:00	08/04/14 20:30	1
<b>Nickel</b>	<b>0.026</b>		0.025	0.010	mg/L		08/02/14 09:00	08/04/14 20:30	1
<b>Selenium</b>	<b>0.017</b>	<b>J B</b>	0.050	0.010	mg/L		08/02/14 09:00	08/04/14 20:30	1
Silver	<0.025		0.025	0.010	mg/L		08/02/14 09:00	08/04/14 20:30	1
<b>Zinc</b>	<b>0.53</b>		0.10	0.020	mg/L		08/02/14 09:00	08/05/14 15:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.015</b>	<b>J</b>	0.050	0.010	mg/L		07/30/14 10:00	07/31/14 04:44	1
<b>Barium</b>	<b>0.29</b>	<b>J</b>	0.50	0.050	mg/L		07/30/14 10:00	07/31/14 04:44	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/30/14 10:00	07/31/14 04:44	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81071-1

**Client Sample ID: CP-6(0-4)-072214**

**Lab Sample ID: 500-81071-19**

Date Collected: 07/22/14 11:35

Matrix: Solid

Date Received: 07/23/14 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/30/14 10:00	07/31/14 04:44	1
<b>Chromium</b>	<b>0.064</b>		0.025	0.010	mg/L		07/30/14 10:00	07/31/14 04:44	1
<b>Cobalt</b>	<b>0.020</b>	<b>J</b>	0.025	0.010	mg/L		07/30/14 10:00	07/31/14 04:44	1
<b>Copper</b>	<b>0.082</b>		0.025	0.010	mg/L		07/30/14 10:00	07/31/14 04:44	1
<b>Iron</b>	<b>48</b>		0.20	0.20	mg/L		07/30/14 10:00	07/31/14 04:44	1
<b>Lead</b>	<b>0.26</b>		0.0075	0.0075	mg/L		07/30/14 10:00	07/31/14 04:44	1
<b>Manganese</b>	<b>0.66</b>		0.025	0.010	mg/L		07/30/14 10:00	07/31/14 04:44	1
<b>Nickel</b>	<b>0.053</b>		0.025	0.010	mg/L		07/30/14 10:00	07/31/14 04:44	1
Selenium	<0.050		0.050	0.010	mg/L		07/30/14 10:00	07/31/14 04:44	1
Silver	<0.025		0.025	0.010	mg/L		07/30/14 10:00	07/31/14 04:44	1
<b>Zinc</b>	<b>0.33</b>		0.10	0.020	mg/L		07/30/14 10:00	07/31/14 04:44	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.47	mg/Kg	☼	07/30/14 17:15	08/01/14 05:05	1
<b>Arsenic</b>	<b>6.4</b>		0.58	0.12	mg/Kg	☼	07/30/14 17:15	08/01/14 05:05	1
<b>Barium</b>	<b>61</b>		0.58	0.062	mg/Kg	☼	07/30/14 17:15	08/01/14 05:05	1
<b>Beryllium</b>	<b>0.51</b>		0.23	0.047	mg/Kg	☼	07/30/14 17:15	08/01/14 05:05	1
<b>Cadmium</b>	<b>1.4</b>	<b>B</b>	0.12	0.015	mg/Kg	☼	07/30/14 17:15	08/01/14 05:05	1
<b>Calcium</b>	<b>6400</b>	<b>B</b>	12	3.2	mg/Kg	☼	07/30/14 17:15	08/01/14 05:05	1
<b>Chromium</b>	<b>16</b>	<b>B</b>	0.58	0.067	mg/Kg	☼	07/30/14 17:15	08/01/14 05:05	1
<b>Cobalt</b>	<b>13</b>		0.29	0.058	mg/Kg	☼	07/30/14 17:15	08/01/14 05:05	1
<b>Copper</b>	<b>18</b>		0.58	0.12	mg/Kg	☼	07/30/14 17:15	08/01/14 05:05	1
<b>Iron</b>	<b>15000</b>	<b>B</b>	12	4.8	mg/Kg	☼	07/30/14 17:15	08/01/14 05:05	1
<b>Lead</b>	<b>45</b>		0.29	0.087	mg/Kg	☼	07/30/14 17:15	08/01/14 05:05	1
<b>Magnesium</b>	<b>5300</b>	<b>B</b>	5.8	1.2	mg/Kg	☼	07/30/14 17:15	08/01/14 05:05	1
<b>Manganese</b>	<b>430</b>	<b>B</b>	0.58	0.12	mg/Kg	☼	07/30/14 17:15	08/01/14 05:05	1
<b>Nickel</b>	<b>19</b>		0.58	0.12	mg/Kg	☼	07/30/14 17:15	08/01/14 05:05	1
<b>Potassium</b>	<b>1100</b>		29	1.8	mg/Kg	☼	07/30/14 17:15	08/01/14 05:05	1
<b>Selenium</b>	<b>0.32</b>	<b>J</b>	0.58	0.21	mg/Kg	☼	07/30/14 17:15	08/01/14 05:05	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	07/30/14 17:15	08/01/14 05:05	1
<b>Sodium</b>	<b>1300</b>		58	7.8	mg/Kg	☼	07/30/14 17:15	08/01/14 05:05	1
Thallium	<0.58		0.58	0.25	mg/Kg	☼	07/30/14 17:15	08/01/14 05:05	1
<b>Vanadium</b>	<b>20</b>		0.29	0.043	mg/Kg	☼	07/30/14 17:15	08/01/14 05:05	1
<b>Zinc</b>	<b>480</b>	<b>B</b>	1.2	0.24	mg/Kg	☼	07/30/14 17:15	08/01/14 05:05	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		08/04/14 12:00	08/05/14 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		07/30/14 12:00	07/31/14 10:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>28</b>		19	7.4	ug/Kg	☼	07/30/14 12:00	07/31/14 10:01	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.96</b>		0.200	0.200	SU			07/31/14 12:58	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81071-1

**Client Sample ID: CP-7(0-4)-072214**

**Lab Sample ID: 500-81071-20**

**Date Collected: 07/22/14 11:45**

**Matrix: Solid**

**Date Received: 07/23/14 10:00**

**Percent Solids: 82.0**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>220</b>		6.1	2.6	ug/Kg	☼		07/29/14 13:19	1
Benzene	<6.1		6.1	0.84	ug/Kg	☼		07/29/14 13:19	1
Bromodichloromethane	<6.1		6.1	1.0	ug/Kg	☼		07/29/14 13:19	1
Bromoform	<6.1		6.1	1.4	ug/Kg	☼		07/29/14 13:19	1
Bromomethane	<6.1		6.1	1.8	ug/Kg	☼		07/29/14 13:19	1
Carbon disulfide	<6.1		6.1	0.91	ug/Kg	☼		07/29/14 13:19	1
Carbon tetrachloride	<6.1		6.1	1.1	ug/Kg	☼		07/29/14 13:19	1
Chlorobenzene	<6.1		6.1	0.62	ug/Kg	☼		07/29/14 13:19	1
Chloroethane	<6.1		6.1	1.7	ug/Kg	☼		07/29/14 13:19	1
Chloroform	<6.1		6.1	0.70	ug/Kg	☼		07/29/14 13:19	1
Chloromethane	<6.1		6.1	1.3	ug/Kg	☼		07/29/14 13:19	1
cis-1,2-Dichloroethene	<6.1		6.1	0.86	ug/Kg	☼		07/29/14 13:19	1
cis-1,3-Dichloropropene	<6.1		6.1	0.80	ug/Kg	☼		07/29/14 13:19	1
Dibromochloromethane	<6.1		6.1	1.1	ug/Kg	☼		07/29/14 13:19	1
1,1-Dichloroethane	<6.1		6.1	0.96	ug/Kg	☼		07/29/14 13:19	1
1,2-Dichloroethane	<6.1		6.1	0.90	ug/Kg	☼		07/29/14 13:19	1
1,1,1-Dichloroethene	<6.1		6.1	0.99	ug/Kg	☼		07/29/14 13:19	1
1,2-Dichloropropane	<6.1		6.1	0.93	ug/Kg	☼		07/29/14 13:19	1
1,3-Dichloropropene, Total	<6.1		6.1	0.80	ug/Kg	☼		07/29/14 13:19	1
Ethylbenzene	<6.1		6.1	1.2	ug/Kg	☼		07/29/14 13:19	1
2-Hexanone	<6.1		6.1	1.8	ug/Kg	☼		07/29/14 13:19	1
Methylene Chloride	<6.1		6.1	1.6	ug/Kg	☼		07/29/14 13:19	1
<b>Methyl Ethyl Ketone</b>	<b>45</b>		6.1	2.2	ug/Kg	☼		07/29/14 13:19	1
methyl isobutyl ketone	<6.1		6.1	1.6	ug/Kg	☼		07/29/14 13:19	1
Methyl tert-butyl ether	<6.1		6.1	1.0	ug/Kg	☼		07/29/14 13:19	1
Styrene	<6.1		6.1	0.80	ug/Kg	☼		07/29/14 13:19	1
1,1,1,2-Tetrachloroethane	<6.1		6.1	1.2	ug/Kg	☼		07/29/14 13:19	1
Tetrachloroethene	<6.1		6.1	0.93	ug/Kg	☼		07/29/14 13:19	1
Toluene	<6.1		6.1	0.85	ug/Kg	☼		07/29/14 13:19	1
trans-1,2-Dichloroethene	<6.1		6.1	0.84	ug/Kg	☼		07/29/14 13:19	1
trans-1,3-Dichloropropene	<6.1		6.1	1.1	ug/Kg	☼		07/29/14 13:19	1
1,1,1-Trichloroethane	<6.1 *		6.1	0.91	ug/Kg	☼		07/29/14 13:19	1
1,1,2-Trichloroethane	<6.1		6.1	0.83	ug/Kg	☼		07/29/14 13:19	1
Trichloroethene	<6.1		6.1	1.0	ug/Kg	☼		07/29/14 13:19	1
Vinyl chloride	<6.1		6.1	1.3	ug/Kg	☼		07/29/14 13:19	1
Xylenes, Total	<12		12	0.55	ug/Kg	☼		07/29/14 13:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122		07/29/14 13:19	1
Dibromofluoromethane	115		75 - 120		07/29/14 13:19	1
1,2-Dichloroethane-d4 (Surr)	114		70 - 134		07/29/14 13:19	1
Toluene-d8 (Surr)	99		75 - 122		07/29/14 13:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<200		200	43	ug/Kg	☼	08/04/14 07:29	08/05/14 17:52	1
1,2-Dichlorobenzene	<200		200	47	ug/Kg	☼	08/04/14 07:29	08/05/14 17:52	1
1,3-Dichlorobenzene	<200		200	45	ug/Kg	☼	08/04/14 07:29	08/05/14 17:52	1
1,4-Dichlorobenzene	<200		200	51	ug/Kg	☼	08/04/14 07:29	08/05/14 17:52	1
2,2'-oxybis[1-chloropropane]	<200		200	46	ug/Kg	☼	08/04/14 07:29	08/05/14 17:52	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81071-1

**Client Sample ID: CP-7(0-4)-072214**

**Lab Sample ID: 500-81071-20**

**Date Collected: 07/22/14 11:45**

**Matrix: Solid**

**Date Received: 07/23/14 10:00**

**Percent Solids: 82.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<390		390	90	ug/Kg	☼	08/04/14 07:29	08/05/14 17:52	1
2,4,6-Trichlorophenol	<390		390	140	ug/Kg	☼	08/04/14 07:29	08/05/14 17:52	1
2,4-Dichlorophenol	<390		390	94	ug/Kg	☼	08/04/14 07:29	08/05/14 17:52	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	08/04/14 07:29	08/05/14 17:52	1
2,4-Dinitrophenol	<800		800	700	ug/Kg	☼	08/04/14 07:29	08/05/14 17:52	1
2,4-Dinitrotoluene	<200		200	63	ug/Kg	☼	08/04/14 07:29	08/05/14 17:52	1
2,6-Dinitrotoluene	<200		200	78	ug/Kg	☼	08/04/14 07:29	08/05/14 17:52	1
2-Chloronaphthalene	<200		200	44	ug/Kg	☼	08/04/14 07:29	08/05/14 17:52	1
2-Chlorophenol	<200		200	67	ug/Kg	☼	08/04/14 07:29	08/05/14 17:52	1
2-Methylnaphthalene	<39		39	7.3	ug/Kg	☼	08/04/14 07:29	08/05/14 17:52	1
2-Methylphenol	<200		200	63	ug/Kg	☼	08/04/14 07:29	08/05/14 17:52	1
2-Nitroaniline	<200		200	53	ug/Kg	☼	08/04/14 07:29	08/05/14 17:52	1
2-Nitrophenol	<390		390	93	ug/Kg	☼	08/04/14 07:29	08/05/14 17:52	1
3 & 4 Methylphenol	<200		200	66	ug/Kg	☼	08/04/14 07:29	08/05/14 17:52	1
3,3'-Dichlorobenzidine	<200		200	55	ug/Kg	☼	08/04/14 07:29	08/05/14 17:52	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	08/04/14 07:29	08/05/14 17:52	1
4,6-Dinitro-2-methylphenol	<390		390	320	ug/Kg	☼	08/04/14 07:29	08/05/14 17:52	1
4-Bromophenyl phenyl ether	<200		200	52	ug/Kg	☼	08/04/14 07:29	08/05/14 17:52	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	08/04/14 07:29	08/05/14 17:52	1
4-Chloroaniline	<800		800	190	ug/Kg	☼	08/04/14 07:29	08/05/14 17:52	1
4-Chlorophenyl phenyl ether	<200		200	46	ug/Kg	☼	08/04/14 07:29	08/05/14 17:52	1
4-Nitroaniline	<390		390	170	ug/Kg	☼	08/04/14 07:29	08/05/14 17:52	1
4-Nitrophenol	<800		800	380	ug/Kg	☼	08/04/14 07:29	08/05/14 17:52	1
Acenaphthene	<39		39	7.1	ug/Kg	☼	08/04/14 07:29	08/05/14 17:52	1
Acenaphthylene	<39		39	5.2	ug/Kg	☼	08/04/14 07:29	08/05/14 17:52	1
Anthracene	<39		39	6.6	ug/Kg	☼	08/04/14 07:29	08/05/14 17:52	1
Benzo[a]anthracene	<39		39	5.3	ug/Kg	☼	08/04/14 07:29	08/05/14 17:52	1
<b>Benzo[a]pyrene</b>	<b>9.0</b>	<b>J</b>	39	7.7	ug/Kg	☼	08/04/14 07:29	08/05/14 17:52	1
<b>Benzo[b]fluoranthene</b>	<b>19</b>	<b>J</b>	39	8.5	ug/Kg	☼	08/04/14 07:29	08/05/14 17:52	1
Benzo[g,h,i]perylene	<39		39	13	ug/Kg	☼	08/04/14 07:29	08/05/14 17:52	1
Benzo[k]fluoranthene	<39		39	12	ug/Kg	☼	08/04/14 07:29	08/05/14 17:52	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	☼	08/04/14 07:29	08/05/14 17:52	1
Bis(2-chloroethyl)ether	<200		200	59	ug/Kg	☼	08/04/14 07:29	08/05/14 17:52	1
Bis(2-ethylhexyl) phthalate	<200		200	72	ug/Kg	☼	08/04/14 07:29	08/05/14 17:52	1
Butyl benzyl phthalate	<200		200	75	ug/Kg	☼	08/04/14 07:29	08/05/14 17:52	1
Carbazole	<200		200	100	ug/Kg	☼	08/04/14 07:29	08/05/14 17:52	1
<b>Chrysene</b>	<b>13</b>	<b>J</b>	39	11	ug/Kg	☼	08/04/14 07:29	08/05/14 17:52	1
Dibenz(a,h)anthracene	<39		39	7.6	ug/Kg	☼	08/04/14 07:29	08/05/14 17:52	1
Dibenzofuran	<200		200	46	ug/Kg	☼	08/04/14 07:29	08/05/14 17:52	1
Diethyl phthalate	<200		200	67	ug/Kg	☼	08/04/14 07:29	08/05/14 17:52	1
Dimethyl phthalate	<200		200	52	ug/Kg	☼	08/04/14 07:29	08/05/14 17:52	1
Di-n-butyl phthalate	<200		200	60	ug/Kg	☼	08/04/14 07:29	08/05/14 17:52	1
Di-n-octyl phthalate	<200		200	64	ug/Kg	☼	08/04/14 07:29	08/05/14 17:52	1
<b>Fluoranthene</b>	<b>11</b>	<b>J</b>	39	7.3	ug/Kg	☼	08/04/14 07:29	08/05/14 17:52	1
Fluorene	<39		39	5.6	ug/Kg	☼	08/04/14 07:29	08/05/14 17:52	1
Hexachlorobenzene	<80		80	9.2	ug/Kg	☼	08/04/14 07:29	08/05/14 17:52	1
Hexachlorobutadiene	<200		200	62	ug/Kg	☼	08/04/14 07:29	08/05/14 17:52	1
Hexachlorocyclopentadiene	<800		800	230	ug/Kg	☼	08/04/14 07:29	08/05/14 17:52	1
Hexachloroethane	<200		200	60	ug/Kg	☼	08/04/14 07:29	08/05/14 17:52	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81071-1

**Client Sample ID: CP-7(0-4)-072214**

**Lab Sample ID: 500-81071-20**

**Date Collected: 07/22/14 11:45**

**Matrix: Solid**

**Date Received: 07/23/14 10:00**

**Percent Solids: 82.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<39		39	10	ug/Kg	☼	08/04/14 07:29	08/05/14 17:52	1
Isophorone	<200		200	44	ug/Kg	☼	08/04/14 07:29	08/05/14 17:52	1
Naphthalene	<39		39	6.1	ug/Kg	☼	08/04/14 07:29	08/05/14 17:52	1
Nitrobenzene	<39		39	9.9	ug/Kg	☼	08/04/14 07:29	08/05/14 17:52	1
N-Nitrosodi-n-propylamine	<200		200	48	ug/Kg	☼	08/04/14 07:29	08/05/14 17:52	1
N-Nitrosodiphenylamine	<200		200	47	ug/Kg	☼	08/04/14 07:29	08/05/14 17:52	1
Pentachlorophenol	<800		800	630	ug/Kg	☼	08/04/14 07:29	08/05/14 17:52	1
Phenanthrene	<39		39	5.5	ug/Kg	☼	08/04/14 07:29	08/05/14 17:52	1
Phenol	<200		200	88	ug/Kg	☼	08/04/14 07:29	08/05/14 17:52	1
<b>Pyrene</b>	<b>19</b>	<b>J</b>	39	7.9	ug/Kg	☼	08/04/14 07:29	08/05/14 17:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	82		35 - 137				08/04/14 07:29	08/05/14 17:52	1
2-Fluorobiphenyl	78		25 - 119				08/04/14 07:29	08/05/14 17:52	1
2-Fluorophenol	60		25 - 110				08/04/14 07:29	08/05/14 17:52	1
Nitrobenzene-d5	53		25 - 115				08/04/14 07:29	08/05/14 17:52	1
Phenol-d5	67		31 - 110				08/04/14 07:29	08/05/14 17:52	1
Terphenyl-d14	77		36 - 134				08/04/14 07:29	08/05/14 17:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050	^	0.050	0.010	mg/L		08/02/14 09:00	08/04/14 20:35	1
<b>Barium</b>	<b>0.52</b>		0.50	0.050	mg/L		08/02/14 09:00	08/04/14 20:35	1
Beryllium	<0.0040	^	0.0040	0.0040	mg/L		08/02/14 09:00	08/04/14 20:35	1
<b>Cadmium</b>	<b>0.0030</b>	<b>J</b>	0.0050	0.0020	mg/L		08/02/14 09:00	08/04/14 20:35	1
Chromium	<0.025		0.025	0.010	mg/L		08/02/14 09:00	08/04/14 20:35	1
<b>Cobalt</b>	<b>0.030</b>		0.025	0.010	mg/L		08/02/14 09:00	08/05/14 16:02	1
<b>Copper</b>	<b>0.019</b>	<b>J</b>	0.025	0.010	mg/L		08/02/14 09:00	08/04/14 20:35	1
<b>Iron</b>	<b>0.56</b>		0.20	0.20	mg/L		08/02/14 09:00	08/04/14 20:35	1
<b>Lead</b>	<b>0.062</b>		0.0075	0.0075	mg/L		08/02/14 09:00	08/04/14 20:35	1
<b>Manganese</b>	<b>9.4</b>		0.025	0.010	mg/L		08/02/14 09:00	08/04/14 20:35	1
<b>Nickel</b>	<b>0.037</b>		0.025	0.010	mg/L		08/02/14 09:00	08/04/14 20:35	1
<b>Selenium</b>	<b>0.012</b>	<b>J B</b>	0.050	0.010	mg/L		08/02/14 09:00	08/04/14 20:35	1
Silver	<0.025		0.025	0.010	mg/L		08/02/14 09:00	08/04/14 20:35	1
<b>Zinc</b>	<b>0.19</b>		0.10	0.020	mg/L		08/02/14 09:00	08/05/14 16:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.098</b>		0.050	0.010	mg/L		07/30/14 10:00	07/31/14 04:50	1
<b>Barium</b>	<b>1.0</b>		0.50	0.050	mg/L		07/30/14 10:00	07/31/14 04:50	1
<b>Beryllium</b>	<b>0.011</b>		0.0040	0.0040	mg/L		07/30/14 10:00	07/31/14 04:50	1
<b>Cadmium</b>	<b>0.0036</b>	<b>J</b>	0.0050	0.0020	mg/L		07/30/14 10:00	07/31/14 04:50	1
<b>Chromium</b>	<b>0.28</b>		0.025	0.010	mg/L		07/30/14 10:00	07/31/14 04:50	1
<b>Cobalt</b>	<b>0.098</b>		0.025	0.010	mg/L		07/30/14 10:00	07/31/14 04:50	1
<b>Copper</b>	<b>0.35</b>		0.025	0.010	mg/L		07/30/14 10:00	07/31/14 04:50	1
<b>Iron</b>	<b>260</b>		0.20	0.20	mg/L		07/30/14 10:00	07/31/14 04:50	1
<b>Lead</b>	<b>0.72</b>		0.0075	0.0075	mg/L		07/30/14 10:00	07/31/14 04:50	1
<b>Manganese</b>	<b>3.8</b>		0.025	0.010	mg/L		07/30/14 10:00	07/31/14 04:50	1
<b>Nickel</b>	<b>0.31</b>		0.025	0.010	mg/L		07/30/14 10:00	07/31/14 04:50	1
Selenium	<0.050		0.050	0.010	mg/L		07/30/14 10:00	07/31/14 04:50	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81071-1

**Client Sample ID: CP-7(0-4)-072214**

**Lab Sample ID: 500-81071-20**

Date Collected: 07/22/14 11:45

Matrix: Solid

Date Received: 07/23/14 10:00

**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		07/30/14 10:00	07/31/14 04:50	1
<b>Zinc</b>	<b>0.62</b>		0.10	0.020	mg/L		07/30/14 10:00	07/31/14 04:50	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.48	mg/Kg	☼	07/30/14 17:15	08/01/14 05:10	1
<b>Arsenic</b>	<b>8.4</b>		0.60	0.12	mg/Kg	☼	07/30/14 17:15	08/01/14 05:10	1
<b>Barium</b>	<b>62</b>		0.60	0.064	mg/Kg	☼	07/30/14 17:15	08/01/14 05:10	1
<b>Beryllium</b>	<b>0.73</b>		0.24	0.048	mg/Kg	☼	07/30/14 17:15	08/01/14 05:10	1
<b>Cadmium</b>	<b>0.065</b>	<b>J B</b>	0.12	0.015	mg/Kg	☼	07/30/14 17:15	08/01/14 05:10	1
<b>Calcium</b>	<b>19000</b>	<b>B</b>	12	3.3	mg/Kg	☼	07/30/14 17:15	08/01/14 05:10	1
<b>Chromium</b>	<b>20</b>	<b>B</b>	0.60	0.070	mg/Kg	☼	07/30/14 17:15	08/01/14 05:10	1
<b>Cobalt</b>	<b>15</b>		0.30	0.060	mg/Kg	☼	07/30/14 17:15	08/01/14 05:10	1
<b>Copper</b>	<b>26</b>		0.60	0.12	mg/Kg	☼	07/30/14 17:15	08/01/14 05:10	1
<b>Iron</b>	<b>22000</b>	<b>B</b>	12	4.9	mg/Kg	☼	07/30/14 17:15	08/01/14 05:10	1
<b>Lead</b>	<b>87</b>		0.30	0.089	mg/Kg	☼	07/30/14 17:15	08/01/14 05:10	1
<b>Magnesium</b>	<b>13000</b>	<b>B</b>	6.0	1.2	mg/Kg	☼	07/30/14 17:15	08/01/14 05:10	1
<b>Manganese</b>	<b>560</b>	<b>B</b>	0.60	0.12	mg/Kg	☼	07/30/14 17:15	08/01/14 05:10	1
<b>Nickel</b>	<b>35</b>		0.60	0.12	mg/Kg	☼	07/30/14 17:15	08/01/14 05:10	1
<b>Potassium</b>	<b>1800</b>		30	1.8	mg/Kg	☼	07/30/14 17:15	08/01/14 05:10	1
<b>Selenium</b>	<b>0.53</b>	<b>J</b>	0.60	0.21	mg/Kg	☼	07/30/14 17:15	08/01/14 05:10	1
Silver	<0.30		0.30	0.022	mg/Kg	☼	07/30/14 17:15	08/01/14 05:10	1
<b>Sodium</b>	<b>2000</b>		60	8.0	mg/Kg	☼	07/30/14 17:15	08/01/14 05:10	1
Thallium	<0.60		0.60	0.25	mg/Kg	☼	07/30/14 17:15	08/01/14 05:10	1
<b>Vanadium</b>	<b>25</b>		0.30	0.044	mg/Kg	☼	07/30/14 17:15	08/01/14 05:10	1
<b>Zinc</b>	<b>74</b>	<b>B</b>	1.2	0.24	mg/Kg	☼	07/30/14 17:15	08/01/14 05:10	1

**Method: 7470A - Mercury (CVAA) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		08/04/14 12:00	08/05/14 08:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.30</b>		0.20	0.20	ug/L		07/30/14 12:00	07/31/14 10:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>38</b>		19	7.4	ug/Kg	☼	07/30/14 12:00	07/31/14 10:04	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.56</b>		0.200	0.200	SU			07/31/14 13:00	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81071-1

## 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.
*	ISTD response or retention time outside acceptable limits
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
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.
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.
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 - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81071-1

## 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



500-81071 COC

Report To (optional)  
Contact: S. Balasubramanian  
Company: Weston Solutions Inc.  
Address: 300 Plaza Circle, Ste 202  
Address: Mundelein, IL 60061  
Phone: 224-864-7250  
Fax: 224-861-7236  
E-Mail:

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

## Chain of Custody Record

Lab Job #: 500-81071  
Chain of Custody Number:  
Page 1 of 4  
Temperature °C of Cooler: 34

Client		Client Project #		Preservative							Preservative Key		
<u>Weston</u>											1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other		
Project Name		Parameter											
<u>IDOT-046</u>													
Project Location/State		Lab Project #											
<u>LaKe County / IL</u>													
Sampler		Lab PM											
<u>T. Walls</u>		<u>D. Wright</u>											
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	VOCs	SVOCs	Total Metals	TEL/P/S/PLP Metals	PH	Comments	
			Date	Time									
1		CP-1(0-6)-072214	7-22-14	0840	2	S	X	X	X	X	X		
2		CP-1(0-6)-072214D		0840									
3		CP-1(6-12)-072214		0855									
4		CP-1(12-15)-072214		0900									
5		CP-2(0-6)-072214		0910									
6		CP-2(6-12)-072214		0920									
7		CP-2(12-19)-072214		0925									
8		CP-2(19-24)-072214		0930									
9		CP-3(0-6)-072214		0950									
10		CP-3(6-12)-072214	7-22-14	0955	2	S	X	X	X	X	X		

Turnaround Time Required (Business Days)

1 Day 
  2 Days 
  5 Days 
  7 Days 
  10 Days 
  15 Days 
  Standard 
  Other 
 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>T. Walls</u> Company: <u>Weston</u> Date: <u>7-22-14</u> Time: <u>1545</u>	Received By: <u>[Signature]</u> Company: <u>JA</u> Date: <u>7/22/14</u> Time: <u>1545</u>	Lab Courier: <u>JA</u>
Relinquished By: <u>[Signature]</u> Company: <u>JA</u> Date: <u>7/23/14</u> Time: <u>0835</u>	Received By: <u>[Signature]</u> Company: <u>JA</u> Date: <u>7/23/14</u> Time: <u>0835</u>	Shipped: _____
Relinquished By: <u>[Signature]</u> Company: <u>JA</u> Date: <u>7/23/14</u> Time: <u>1000</u>	Received By: <u>[Signature]</u> Company: <u>JA</u> Date: <u>7/23/14</u> Time: <u>1000</u>	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. Babusakumar  
Company: Weston Solutions Inc.  
Address: 300 Plaza Circle, Ste 202  
Address: Mundelein, IL 60061  
Phone: 847 224-864-7250  
Fax: 224-864-7236  
E-Mail:

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

## Chain of Custody Record

Lab Job #: 500-81071  
Chain of Custody Number: \_\_\_\_\_  
Page 2 of 4  
Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter												Preservative Key	
<u>Weston</u>																		1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		# of Containers		Matrix		Total metals		TCLP/SLP metals		PH							
<u>IDOT-046</u>																			
Project Location/State		Lab PM																	
<u>Lake County / IL</u>		<u>D. Wright</u>																	
Sampler		Sample ID		Date		Time													
<u>T. Walls</u>																			
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix													Comments
11		CP-3(12-19)-072214	7-22-14	1000	2	S	X	X	X	X	X								
12		CP-3(19-26)-072214		1010															
13		CP-3(19-26)-072214D		1010															
14		CP-4(0-6)-072214		1035															
15		CP-4(6-12)-072214		1045															
16		CP-4(12-19)-072214		1055															
17		CP-4(19-26)-072214		1100															
18		CP-5(0-4)-072214		1125															
19		CP-6(0-4)-072214		1135															
20		CP-7(0-4)-072214	7-22-14	1145	2	S	X	X	X	X	X								

Turnaround Time Required (Business Days)

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

Sample Disposal

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

Relinquished By <u>Timothy A. Walls</u>	Company <u>Weston</u>	Date <u>7-22-14</u>	Time <u>1545</u>	Received By <u>[Signature]</u>	Company <u>IA</u>	Date <u>7/22/14</u>	Time <u>1545</u>
Relinquished By <u>[Signature]</u>	Company <u>IA</u>	Date <u>7/22/14</u>	Time <u>935</u>	Received By <u>[Signature]</u>	Company <u>IA</u>	Date <u>7/23/14</u>	Time <u>0835</u>
Relinquished By <u>[Signature]</u>	Company <u>IA</u>	Date <u>7/23/14</u>	Time <u>1000</u>	Received By <u>[Signature]</u>	Company <u>IA</u>	Date <u>7/23/14</u>	Time <u>1000</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 541 (Grand Ave) at Fairfield Rd Office Phone Number, if available: \_\_\_\_\_

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

37822-37908 N. Fairfield Rd

City: Lake Villa 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: 42.415479132 Longitude: -88.110289326  
(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 541 (Grand Ave) at Fairfield Rd

Latitude: 42.415479132 Longitude: -88.110289326

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 LV-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2732-2. 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: 500-81068-1

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

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

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

Company Name: Illinois Department of Transportation

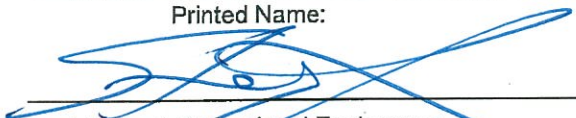
Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

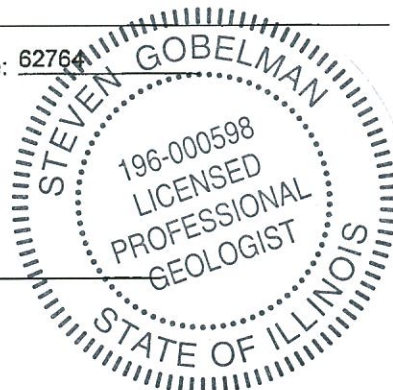
Steven Gobelman, P.E., L.P.G.

Printed Name:

  
 Licensed Professional Engineer or  
 Licensed Professional Geologist Signature:

2/25/15

Date:



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

**Summary Table of ISGS Site No. 2732-2**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAP 541 (IL Route 132; Grand Avenue) at Fairfield Road**  
**Unincorporated Lake County, Illinois**

Field Sample ID	LV-1(0-3)-072214	<b>Soil Reference Concentrations<sup>A</sup></b>
Sample Date	7/22/2014	
Location ID	LV-1	
Depth	0 - 3	
ISGS Site Number	2732-2	
<b>Parameter</b>		
Laboratory pH (standard units)	8.23	<6.25, >9.0
<b>VOCs (ug/kg)</b>	<b>None Detected</b>	
<b>SVOCs (ug/kg)</b>	<b>No Exceedances</b>	
<b>Total Metals (mg/kg)</b>		
Arsenic, Total	6 J-	11.3/13.0
Barium, Total	47 J	1500
Beryllium, Total	0.61 J	22
Cadmium, Total	ND	5.2
Chromium, Total	16 J	21
Cobalt, Total	12 J	20
Copper, Total	17 J	2900
Iron, Total	16000 J	15000/15900
Lead, Total	42 J	107
Magnesium, Total	12000 J	325000
Manganese, Total	340 J	630/636
Mercury, Total	0.035	0.89
Nickel, Total	24 J	100
Selenium, Total	0.19 J	1.3
<b>TCLP Metals (mg/l)</b>		
Arsenic, TCLP	ND	0.05
Barium, TCLP	0.44 J	2
Beryllium, TCLP	ND	0.004
Cadmium, TCLP	0.0021 J	0.005
Chromium, TCLP	ND	0.1
Cobalt, TCLP	0.032	1
Copper, TCLP	0.017 J	0.65
Iron, TCLP	0.47	5
Lead, TCLP	0.011	0.0075
Manganese, TCLP	8.4	0.15
Mercury, TCLP	ND	0.002
Nickel, TCLP	0.027	0.1
Selenium, TCLP	ND	0.05
<b>SPLP Metals (mg/l)</b>		
Arsenic, SPLP	0.08	0.05
Barium, SPLP	0.7	2
Beryllium, SPLP	0.008	0.004
Cadmium, SPLP	0.0042 J	0.005
Chromium, SPLP	0.18	0.1
Cobalt, SPLP	0.082	1
Copper, SPLP	0.24	0.65
Iron, SPLP	210	5
Lead, SPLP	0.32	0.0075
Manganese, SPLP	2.4	0.15
Mercury, SPLP	0.00031	0.002
Nickel, SPLP	0.21	0.1
Selenium, SPLP	ND	0.05

**Notes:**

--- - not applicable or value not available.

<sup>A</sup> - 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: 500-81068-1  
Client Project/Site: IDOT - IL Rt. 132 - WO 046

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

Attn: Mr. S. Babusukumar



Authorized for release by:  
8/6/2014 1:51:19 PM

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

### LINKS

Review your project  
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Have a Question?



Visit us at:  
[www.testamericainc.com](http://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
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# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81068-1

**Client Sample ID: LV-1(0-3)-072214**

**Lab Sample ID: 500-81068-2**

**Date Collected: 07/22/14 12:40**

**Matrix: Solid**

**Date Received: 07/23/14 10:00**

**Percent Solids: 86.6**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>43</b>		5.8	2.5	ug/Kg	☼		07/24/14 23:33	1
Benzene	<5.8		5.8	0.79	ug/Kg	☼		07/24/14 23:33	1
Bromodichloromethane	<5.8		5.8	0.99	ug/Kg	☼		07/24/14 23:33	1
Bromoform	<5.8		5.8	1.3	ug/Kg	☼		07/24/14 23:33	1
Bromomethane	<5.8		5.8	1.7	ug/Kg	☼		07/24/14 23:33	1
Carbon disulfide	<5.8		5.8	0.86	ug/Kg	☼		07/24/14 23:33	1
Carbon tetrachloride	<5.8		5.8	1.1	ug/Kg	☼		07/24/14 23:33	1
Chlorobenzene	<5.8		5.8	0.59	ug/Kg	☼		07/24/14 23:33	1
Chloroethane	<5.8		5.8	1.6	ug/Kg	☼		07/24/14 23:33	1
Chloroform	<5.8		5.8	0.66	ug/Kg	☼		07/24/14 23:33	1
Chloromethane	<5.8		5.8	1.2	ug/Kg	☼		07/24/14 23:33	1
cis-1,2-Dichloroethene	<5.8		5.8	0.82	ug/Kg	☼		07/24/14 23:33	1
cis-1,3-Dichloropropene	<5.8		5.8	0.76	ug/Kg	☼		07/24/14 23:33	1
Dibromochloromethane	<5.8		5.8	1.0	ug/Kg	☼		07/24/14 23:33	1
1,1-Dichloroethane	<5.8		5.8	0.91	ug/Kg	☼		07/24/14 23:33	1
1,2-Dichloroethane	<5.8		5.8	0.86	ug/Kg	☼		07/24/14 23:33	1
1,1-Dichloroethene	<5.8		5.8	0.93	ug/Kg	☼		07/24/14 23:33	1
1,2-Dichloropropane	<5.8		5.8	0.88	ug/Kg	☼		07/24/14 23:33	1
1,3-Dichloropropene, Total	<5.8		5.8	0.76	ug/Kg	☼		07/24/14 23:33	1
Ethylbenzene	<5.8		5.8	1.2	ug/Kg	☼		07/24/14 23:33	1
2-Hexanone	<5.8		5.8	1.7	ug/Kg	☼		07/24/14 23:33	1
Methylene Chloride	<5.8		5.8	1.6	ug/Kg	☼		07/24/14 23:33	1
<b>Methyl Ethyl Ketone</b>	<b>11</b>		5.8	2.1	ug/Kg	☼		07/24/14 23:33	1
methyl isobutyl ketone	<5.8		5.8	1.5	ug/Kg	☼		07/24/14 23:33	1
Methyl tert-butyl ether	<5.8		5.8	0.95	ug/Kg	☼		07/24/14 23:33	1
Styrene	<5.8		5.8	0.76	ug/Kg	☼		07/24/14 23:33	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	1.2	ug/Kg	☼		07/24/14 23:33	1
Tetrachloroethene	<5.8		5.8	0.88	ug/Kg	☼		07/24/14 23:33	1
Toluene	<5.8		5.8	0.81	ug/Kg	☼		07/24/14 23:33	1
trans-1,2-Dichloroethene	<5.8		5.8	0.79	ug/Kg	☼		07/24/14 23:33	1
trans-1,3-Dichloropropene	<5.8		5.8	1.0	ug/Kg	☼		07/24/14 23:33	1
1,1,1-Trichloroethane	<5.8		5.8	0.86	ug/Kg	☼		07/24/14 23:33	1
1,1,2-Trichloroethane	<5.8		5.8	0.79	ug/Kg	☼		07/24/14 23:33	1
Trichloroethene	<5.8		5.8	0.95	ug/Kg	☼		07/24/14 23:33	1
Vinyl chloride	<5.8		5.8	1.2	ug/Kg	☼		07/24/14 23:33	1
Xylenes, Total	<12		12	0.52	ug/Kg	☼		07/24/14 23:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 122		07/24/14 23:33	1
Dibromofluoromethane	109		75 - 120		07/24/14 23:33	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134		07/24/14 23:33	1
Toluene-d8 (Surr)	103		75 - 122		07/24/14 23:33	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	☼	08/05/14 14:18	08/06/14 06:11	1
1,2-Dichlorobenzene	<180		180	43	ug/Kg	☼	08/05/14 14:18	08/06/14 06:11	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	08/05/14 14:18	08/06/14 06:11	1
1,4-Dichlorobenzene	<180		180	46	ug/Kg	☼	08/05/14 14:18	08/06/14 06:11	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	08/05/14 14:18	08/06/14 06:11	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81068-1

**Client Sample ID: LV-1(0-3)-072214**

**Lab Sample ID: 500-81068-2**

**Date Collected: 07/22/14 12:40**

**Matrix: Solid**

**Date Received: 07/23/14 10:00**

**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	<360		360	82	ug/Kg	☼	08/05/14 14:18	08/06/14 06:11	1
2,4,6-Trichlorophenol	<360		360	120	ug/Kg	☼	08/05/14 14:18	08/06/14 06:11	1
2,4-Dichlorophenol	<360		360	85	ug/Kg	☼	08/05/14 14:18	08/06/14 06:11	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	08/05/14 14:18	08/06/14 06:11	1
2,4-Dinitrophenol	<730		730	630	ug/Kg	☼	08/05/14 14:18	08/06/14 06:11	1
2,4-Dinitrotoluene	<180		180	57	ug/Kg	☼	08/05/14 14:18	08/06/14 06:11	1
2,6-Dinitrotoluene	<180		180	71	ug/Kg	☼	08/05/14 14:18	08/06/14 06:11	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	08/05/14 14:18	08/06/14 06:11	1
2-Chlorophenol	<180		180	61	ug/Kg	☼	08/05/14 14:18	08/06/14 06:11	1
2-Methylnaphthalene	<36		36	6.6	ug/Kg	☼	08/05/14 14:18	08/06/14 06:11	1
2-Methylphenol	<180		180	58	ug/Kg	☼	08/05/14 14:18	08/06/14 06:11	1
2-Nitroaniline	<180		180	48	ug/Kg	☼	08/05/14 14:18	08/06/14 06:11	1
2-Nitrophenol	<360		360	85	ug/Kg	☼	08/05/14 14:18	08/06/14 06:11	1
3 & 4 Methylphenol	<180		180	60	ug/Kg	☼	08/05/14 14:18	08/06/14 06:11	1
3,3'-Dichlorobenzidine	<180		180	50	ug/Kg	☼	08/05/14 14:18	08/06/14 06:11	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	08/05/14 14:18	08/06/14 06:11	1
4,6-Dinitro-2-methylphenol	<360		360	290	ug/Kg	☼	08/05/14 14:18	08/06/14 06:11	1
4-Bromophenyl phenyl ether	<180		180	47	ug/Kg	☼	08/05/14 14:18	08/06/14 06:11	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	08/05/14 14:18	08/06/14 06:11	1
4-Chloroaniline	<730		730	170	ug/Kg	☼	08/05/14 14:18	08/06/14 06:11	1
4-Chlorophenyl phenyl ether	<180		180	42	ug/Kg	☼	08/05/14 14:18	08/06/14 06:11	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	08/05/14 14:18	08/06/14 06:11	1
4-Nitrophenol	<730		730	340	ug/Kg	☼	08/05/14 14:18	08/06/14 06:11	1
Acenaphthene	<36		36	6.5	ug/Kg	☼	08/05/14 14:18	08/06/14 06:11	1
Acenaphthylene	<36		36	4.7	ug/Kg	☼	08/05/14 14:18	08/06/14 06:11	1
Anthracene	<36		36	6.0	ug/Kg	☼	08/05/14 14:18	08/06/14 06:11	1
<b>Benzo[a]anthracene</b>	<b>9.3 J</b>		36	4.8	ug/Kg	☼	08/05/14 14:18	08/06/14 06:11	1
<b>Benzo[a]pyrene</b>	<b>13 J</b>		36	7.0	ug/Kg	☼	08/05/14 14:18	08/06/14 06:11	1
<b>Benzo[b]fluoranthene</b>	<b>18 J</b>		36	7.8	ug/Kg	☼	08/05/14 14:18	08/06/14 06:11	1
<b>Benzo[g,h,i]perylene</b>	<b>25 J</b>		36	12	ug/Kg	☼	08/05/14 14:18	08/06/14 06:11	1
Benzo[k]fluoranthene	<36		36	11	ug/Kg	☼	08/05/14 14:18	08/06/14 06:11	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	08/05/14 14:18	08/06/14 06:11	1
Bis(2-chloroethyl)ether	<180		180	54	ug/Kg	☼	08/05/14 14:18	08/06/14 06:11	1
Bis(2-ethylhexyl) phthalate	<180		180	66	ug/Kg	☼	08/05/14 14:18	08/06/14 06:11	1
Butyl benzyl phthalate	<180		180	68	ug/Kg	☼	08/05/14 14:18	08/06/14 06:11	1
Carbazole	<180		180	93	ug/Kg	☼	08/05/14 14:18	08/06/14 06:11	1
<b>Chrysene</b>	<b>15 J</b>		36	9.8	ug/Kg	☼	08/05/14 14:18	08/06/14 06:11	1
Dibenz(a,h)anthracene	<36		36	7.0	ug/Kg	☼	08/05/14 14:18	08/06/14 06:11	1
Dibenzofuran	<180		180	42	ug/Kg	☼	08/05/14 14:18	08/06/14 06:11	1
Diethyl phthalate	<180		180	61	ug/Kg	☼	08/05/14 14:18	08/06/14 06:11	1
Dimethyl phthalate	<180		180	47	ug/Kg	☼	08/05/14 14:18	08/06/14 06:11	1
Di-n-butyl phthalate	<180		180	55	ug/Kg	☼	08/05/14 14:18	08/06/14 06:11	1
Di-n-octyl phthalate	<180		180	59	ug/Kg	☼	08/05/14 14:18	08/06/14 06:11	1
<b>Fluoranthene</b>	<b>22 J</b>		36	6.7	ug/Kg	☼	08/05/14 14:18	08/06/14 06:11	1
Fluorene	<36		36	5.1	ug/Kg	☼	08/05/14 14:18	08/06/14 06:11	1
Hexachlorobenzene	<73		73	8.3	ug/Kg	☼	08/05/14 14:18	08/06/14 06:11	1
Hexachlorobutadiene	<180		180	57	ug/Kg	☼	08/05/14 14:18	08/06/14 06:11	1
Hexachlorocyclopentadiene	<730		730	210	ug/Kg	☼	08/05/14 14:18	08/06/14 06:11	1
Hexachloroethane	<180		180	55	ug/Kg	☼	08/05/14 14:18	08/06/14 06:11	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81068-1

**Client Sample ID: LV-1(0-3)-072214**

**Lab Sample ID: 500-81068-2**

**Date Collected: 07/22/14 12:40**

**Matrix: Solid**

**Date Received: 07/23/14 10:00**

**Percent Solids: 86.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Indeno[1,2,3-cd]pyrene</b>	<b>9.9</b>	<b>J</b>	36	9.3	ug/Kg	☼	08/05/14 14:18	08/06/14 06:11	1
Isophorone	<180		180	40	ug/Kg	☼	08/05/14 14:18	08/06/14 06:11	1
Naphthalene	<36		36	5.5	ug/Kg	☼	08/05/14 14:18	08/06/14 06:11	1
Nitrobenzene	<36		36	9.0	ug/Kg	☼	08/05/14 14:18	08/06/14 06:11	1
N-Nitrosodi-n-propylamine	<180		180	44	ug/Kg	☼	08/05/14 14:18	08/06/14 06:11	1
N-Nitrosodiphenylamine	<180		180	42	ug/Kg	☼	08/05/14 14:18	08/06/14 06:11	1
Pentachlorophenol	<730		730	580	ug/Kg	☼	08/05/14 14:18	08/06/14 06:11	1
<b>Phenanthrene</b>	<b>12</b>	<b>J</b>	36	5.0	ug/Kg	☼	08/05/14 14:18	08/06/14 06:11	1
Phenol	<180		180	80	ug/Kg	☼	08/05/14 14:18	08/06/14 06:11	1
<b>Pyrene</b>	<b>23</b>	<b>J</b>	36	7.1	ug/Kg	☼	08/05/14 14:18	08/06/14 06:11	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2,4,6-Tribromophenol	63		35 - 137				08/05/14 14:18	08/06/14 06:11	1
2-Fluorobiphenyl	44		25 - 119				08/05/14 14:18	08/06/14 06:11	1
2-Fluorophenol	45		25 - 110				08/05/14 14:18	08/06/14 06:11	1
Nitrobenzene-d5	36		25 - 115				08/05/14 14:18	08/06/14 06:11	1
Phenol-d5	41		31 - 110				08/05/14 14:18	08/06/14 06:11	1
Terphenyl-d14	66		36 - 134				08/05/14 14:18	08/06/14 06:11	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		08/01/14 09:00	08/01/14 20:56	1
<b>Barium</b>	<b>0.44</b>	<b>J</b>	0.50	0.050	mg/L		08/01/14 09:00	08/01/14 20:56	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/01/14 09:00	08/01/14 20:56	1
<b>Cadmium</b>	<b>0.0021</b>	<b>J</b>	0.0050	0.0020	mg/L		08/01/14 09:00	08/01/14 20:56	1
Chromium	<0.025		0.025	0.010	mg/L		08/01/14 09:00	08/01/14 20:56	1
<b>Cobalt</b>	<b>0.032</b>		0.025	0.010	mg/L		08/01/14 09:00	08/01/14 20:56	1
<b>Copper</b>	<b>0.017</b>	<b>J</b>	0.025	0.010	mg/L		08/01/14 09:00	08/01/14 20:56	1
<b>Iron</b>	<b>0.47</b>		0.20	0.20	mg/L		08/01/14 09:00	08/01/14 20:56	1
<b>Lead</b>	<b>0.011</b>		0.0075	0.0075	mg/L		08/01/14 09:00	08/01/14 20:56	1
<b>Manganese</b>	<b>8.4</b>		0.025	0.010	mg/L		08/01/14 09:00	08/01/14 20:56	1
<b>Nickel</b>	<b>0.027</b>		0.025	0.010	mg/L		08/01/14 09:00	08/01/14 20:56	1
<b>Selenium</b>	<b>0.017</b>	<b>J B</b>	0.050	0.010	mg/L		08/01/14 09:00	08/01/14 20:56	1
Silver	<0.025		0.025	0.010	mg/L		08/01/14 09:00	08/01/14 20:56	1
<b>Zinc</b>	<b>0.075</b>	<b>J</b>	0.10	0.020	mg/L		08/01/14 09:00	08/01/14 20:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.080</b>		0.050	0.010	mg/L		07/30/14 09:15	07/31/14 00:05	1
<b>Barium</b>	<b>0.70</b>		0.50	0.050	mg/L		07/30/14 09:15	07/31/14 00:05	1
<b>Beryllium</b>	<b>0.0080</b>		0.0040	0.0040	mg/L		07/30/14 09:15	07/31/14 00:05	1
<b>Cadmium</b>	<b>0.0042</b>	<b>J</b>	0.0050	0.0020	mg/L		07/30/14 09:15	07/31/14 00:05	1
<b>Chromium</b>	<b>0.18</b>		0.025	0.010	mg/L		07/30/14 09:15	07/31/14 00:05	1
<b>Cobalt</b>	<b>0.082</b>		0.025	0.010	mg/L		07/30/14 09:15	07/31/14 00:05	1
<b>Copper</b>	<b>0.24</b>		0.025	0.010	mg/L		07/30/14 09:15	07/31/14 00:05	1
<b>Iron</b>	<b>210</b>		0.20	0.20	mg/L		07/30/14 09:15	07/31/14 00:05	1
<b>Lead</b>	<b>0.32</b>		0.0075	0.0075	mg/L		07/30/14 09:15	07/31/14 00:05	1
<b>Manganese</b>	<b>2.4</b>		0.025	0.010	mg/L		07/30/14 09:15	07/31/14 00:05	1
<b>Nickel</b>	<b>0.21</b>		0.025	0.010	mg/L		07/30/14 09:15	07/31/14 00:05	1
Selenium	<0.050		0.050	0.010	mg/L		07/30/14 09:15	07/31/14 00:05	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81068-1

**Client Sample ID: LV-1(0-3)-072214**

**Lab Sample ID: 500-81068-2**

Date Collected: 07/22/14 12:40

Matrix: Solid

Date Received: 07/23/14 10:00

**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		07/30/14 09:15	07/31/14 00:05	1
Zinc	0.51		0.10	0.020	mg/L		07/30/14 09:15	07/31/14 00:05	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.44	mg/Kg	☼	07/30/14 16:30	07/31/14 21:53	1
Arsenic	6.0		0.54	0.11	mg/Kg	☼	07/30/14 16:30	07/31/14 21:53	1
Barium	47		0.54	0.058	mg/Kg	☼	07/30/14 16:30	07/31/14 21:53	1
Beryllium	0.61		0.22	0.044	mg/Kg	☼	07/30/14 16:30	07/31/14 21:53	1
Cadmium	0.080	J B	0.11	0.014	mg/Kg	☼	07/30/14 16:30	07/31/14 21:53	1
Calcium	20000	B	11	3.0	mg/Kg	☼	07/30/14 16:30	08/01/14 17:00	1
Chromium	16	B	0.54	0.063	mg/Kg	☼	07/30/14 16:30	07/31/14 21:53	1
Cobalt	12		0.27	0.054	mg/Kg	☼	07/30/14 16:30	07/31/14 21:53	1
Copper	17		0.54	0.11	mg/Kg	☼	07/30/14 16:30	07/31/14 21:53	1
Iron	16000		11	4.5	mg/Kg	☼	07/30/14 16:30	07/31/14 21:53	1
Lead	42		0.27	0.081	mg/Kg	☼	07/30/14 16:30	07/31/14 21:53	1
Magnesium	12000	B	5.4	1.1	mg/Kg	☼	07/30/14 16:30	07/31/14 21:53	1
Manganese	340	B	0.54	0.11	mg/Kg	☼	07/30/14 16:30	07/31/14 21:53	1
Nickel	24		0.54	0.11	mg/Kg	☼	07/30/14 16:30	07/31/14 21:53	1
Potassium	1400		27	1.6	mg/Kg	☼	07/30/14 16:30	07/31/14 21:53	1
Selenium	0.19	J	0.54	0.19	mg/Kg	☼	07/30/14 16:30	07/31/14 21:53	1
Silver	<0.27		0.27	0.020	mg/Kg	☼	07/30/14 16:30	07/31/14 21:53	1
Sodium	1300	B	54	7.3	mg/Kg	☼	07/30/14 16:30	07/31/14 21:53	1
Thallium	<0.54		0.54	0.23	mg/Kg	☼	07/30/14 16:30	07/31/14 21:53	1
Vanadium	23		0.27	0.040	mg/Kg	☼	07/30/14 16:30	07/31/14 21:53	1
Zinc	56		1.1	0.22	mg/Kg	☼	07/30/14 16:30	07/31/14 21:53	1

**Method: 7470A - Mercury (CVAA) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		08/01/14 13:11	08/04/14 13:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.31		0.20	0.20	ug/L		07/30/14 12:00	07/31/14 08:50	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	35		17	6.5	ug/Kg	☼	07/30/14 12:00	07/31/14 08:20	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.56		0.56	0.18	mg/Kg	☼	07/29/14 18:40	07/30/14 11:25	1
pH	8.23		0.200	0.200	SU			07/30/14 13:27	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81068-1

## 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
F2	MS/MSD RPD exceeds control limits

### Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F3	Duplicate RPD exceeds the control limit
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.
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 - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81068-1

## 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



500-81068 COC

Report To (optional)  
Contact: S. Babusankumar  
Company: Weston Solutions Inc.  
Address: 300 Plaza Circle, Ste 202  
Address: Mundelein, IL 60061  
Phone: 847 224-864-7250  
Fax: 224-864-7238  
E-Mail:

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

## Chain of Custody Record

Lab Job #: 500-81068  
Chain of Custody Number:  
Page 3 of 4  
Temperature °C of Cooler: 3.2

Client		Client Project #		Preservative		Parameter		Total Metals		TELP/SPLP Metals		PH		Preservative Key	
<u>Weston</u>														1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		Sampling		# of Containers	Matrix	VOCs	SVOCs	Total Metals	TELP/SPLP Metals	PH	Comments		
<u>IDOT-046</u>				Date	Time										
Project Location/State		Lab Project #		Sampling		# of Containers	Matrix	VOCs	SVOCs	Total Metals	TELP/SPLP Metals	PH	Comments		
<u>Lake County / IL</u>				Date	Time										
Sampler		Lab PM		Sampling		# of Containers	Matrix	VOCs	SVOCs	Total Metals	TELP/SPLP Metals	PH	Comments		
<u>T. Walls</u>		<u>D. Wright</u>		Date	Time										
1		CP-8(0-4)-072214		7-22-14	1230	2	S	X	X	X	X	X			
2		LV-1(0-3)-072214			1240										
3		LV-2(0-3)-072214			1250										
4		LV-2(0-3)-072214			1250										
5		TP-2(0-4)-072214			1315										
6		TP-1(0-4)-072214			1330										
7		R8-1(0-4)-072214			1345										
8		W-1(0-6)-072214			1400										
9		W-2(0-6)-072214			1410										
10		R11-1(0-6)-072214		7-22-14	1425	2	S	X	X	X	X	X			

Turnaround Time Required (Business Days)

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

Requested Due Date

Sample Disposal

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

Relinquished By <u>Jamethy A. White</u> Company: <u>Weston</u> Date: <u>7-22-14</u> Time: <u>1545</u>	Received By <u>JA</u> Company: <u>JA</u> Date: <u>7/22/14</u> Time: <u>1545</u>
Relinquished By <u>JA</u> Company: <u>JA</u> Date: <u>7/22/14</u> Time: <u>955</u>	Received By <u>JA</u> Company: <u>JA</u> Date: <u>7/23/14</u> Time: <u>0835</u>
Relinquished By <u>JA</u> Company: <u>JA</u> Date: <u>7/23/14</u> Time: <u>1000</u>	Received By <u>JA</u> Company: <u>JA</u> Date: <u>7/23/14</u> Time: <u>1000</u>

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:



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 541 (Grand Ave) at Fairfield Rd Office Phone Number, if available: \_\_\_\_\_

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

38100 block of N. Fairfield Rd

City: Lake Villa 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: 42.415506237 Longitude: - 88.107131410

(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 541 (Grand Ave) at Fairfield Rd

Latitude: 42.415506237 Longitude: - 88.107131410

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 VL-2 AND VL-4 THROUGH VL-8 WERE SAMPLED ADJACENT TO ISGS SITE No. 2732-3. SEE FIGURES 3-1/3-3 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 REPORTS - JOB IDs: 500-81266-1, 500-81267-1, AND 500-81564-1.

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

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

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

Company Name: Illinois Department of Transportation

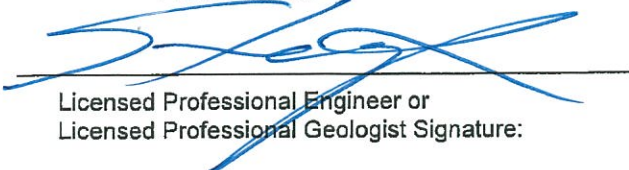
Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Steven Gobelman, P.E., L.P.G.

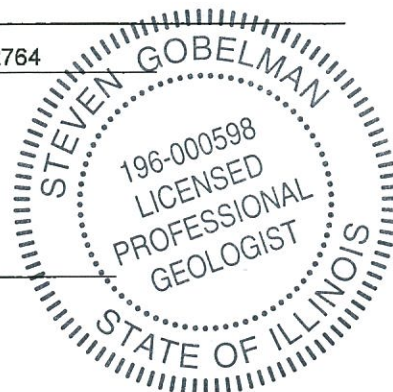
Printed Name:



Licensed Professional Engineer or  
Licensed Professional Geologist Signature:

2/25/15

Date:



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

**Summary Table of ISGS Site No. 2732-3**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAP 541 (IL Route 132; Grand Avenue) at Fairfield Road**  
**Unincorporated Lake County, Illinois**

Field Sample ID	VL-2(0-6)-073014	VL-2(6-12)-073014	VL-2(12-19)-073014	VL-2(12-19)-073014D	VL-2(19-26)-073014	Soil Reference Concentrations <sup>A</sup>
Sample Date	7/30/2014	7/30/2014	7/30/2014	7/30/2014	7/30/2014	
Location ID	VL-2	VL-2	VL-2	VL-2	VL-2	
Depth	0 - 6	6 - 12	12 - 19	12 - 19	19 - 26	
ISGS Site Number	2732-3	2732-3	2732-3	2732-3	2732-3	
<b>Parameter</b>						
Laboratory pH (standard units)	8.83	7.92	7.76	7.51	8.01	<6.25, >9.0
<b>VOCs (ug/kg)</b>	<b>No Exceedances</b>					
<b>SVOCs (ug/kg)</b>						
Benzo(a)pyrene	55	64	200 J	220 J	ND	90 / 1300 / 2100
<b>Total Metals (mg/kg)</b>						
Arsenic, Total	5.8	8.1	8.7 J	6.1 J	3	11.3/13.0
Barium, Total	33	59	59 J	53 J	17	1500
Beryllium, Total	0.35	0.66	0.64 J	0.6 J	0.15 J	22
Cadmium, Total	0.69	0.88	1 J	0.31 J	0.29	5.2
Chromium, Total	12	18	19 J	13 J	5.3	21
Cobalt, Total	6.4	10	11 J	8.2 J	3.9	20
Copper, Total	24	32	33 J	25 J	14	2900
Iron, Total	14000	22000	26000 J	16000 J	6700	15000/15900
Lead, Total	49	28	25 J	22 J	3	107
Magnesium, Total	44000 B	22000 B	30000 J	30000 J	16000 B	325000
Manganese, Total	370	440	420 J	300 J	160	630/636
Mercury, Total	0.02	0.067	0.013 J	0.016 J	ND	0.89
Nickel, Total	15	24	26 J	21 J	13	100
Selenium, Total	ND	ND	ND	1.5 J	1.4	1.3
<b>TCLP Metals (mg/l)</b>						
Arsenic, TCLP	ND	ND	ND	ND	ND	0.05
Barium, TCLP	0.53	0.71	0.41 J	0.44 J	0.48 J	2
Beryllium, TCLP	ND	ND	ND	ND	ND	0.004
Cadmium, TCLP	ND	ND	ND	ND	ND	0.005
Chromium, TCLP	ND	0.01 J	ND	ND	ND	0.1
Cobalt, TCLP	ND	0.024 J	ND	ND	ND	1
Copper, TCLP	0.034	0.039	0.014 J	0.022 J	0.021 J	0.65
Iron, TCLP	ND	0.23	ND	ND	ND	5
Lead, TCLP	ND	0.009	ND	ND	ND	0.0075
Manganese, TCLP	1.1	4.9	2.2	1.6	1.6	0.15
Mercury, TCLP	ND	ND	ND	ND	ND	0.002
Nickel, TCLP	0.013 J	0.026	ND	ND	0.011 J	0.1
Selenium, TCLP	ND	ND	ND	ND	ND	0.05
<b>SPLP Metals (mg/l)</b>						
Arsenic, SPLP	ND	ND	ND	0.011 J	ND	0.05
Barium, SPLP	0.19 J	0.092 J	0.081 J	0.14 J	ND	2
Beryllium, SPLP	ND	ND	ND	ND	ND	0.004
Cadmium, SPLP	ND	ND	ND	ND	ND	0.005
Chromium, SPLP	0.031	ND	0.022 J	0.038	ND	0.1
Cobalt, SPLP	ND	ND	ND	0.014 J	ND	1
Copper, SPLP	0.055	0.021 J	0.03	0.032	0.064	0.65
Iron, SPLP	29 J+	10 J+	23 J+	35 J+	0.87 J+	5
Lead, SPLP	0.056	0.021	0.023	0.029	0.0075	0.0075
Manganese, SPLP	0.25	0.14	0.19	0.23	0.028	0.15
Mercury, SPLP	0.0002	ND	ND	ND	ND	0.002
Nickel, SPLP	0.032	0.01 J	0.024 J	0.039	ND	0.1
Selenium, SPLP	ND	ND	ND	ND	ND	0.05

**Summary Table of ISGS Site No. 2732-3**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAP 541 (IL Route 132; Grand Avenue) at Fairfield Road**  
**Unincorporated Lake County, Illinois**

Field Sample ID	VL-4(0-6)-072514	VL-4(6-12)-072514	VL-4(6-12)-072514D	VL-4(12-19)-072514	VL-4(19-26)-072514	Soil Reference Concentrations <sup>A</sup>
Sample Date	7/25/2014	7/25/2014	7/25/2014	7/25/2014	7/25/2014	
Location ID	VL-4	VL-4	VL-4	VL-4	VL-4	
Depth	0 - 6	6 - 12	6 - 12	12 - 19	19 - 26	
ISGS Site Number	2732-3	2732-3	2732-3	2732-3	2732-3	
<b>Parameter</b>						
Laboratory pH (standard units)	8.25	7.96	8.05	8.34	8.74	<6.25, >9.0
<b>VOCs (ug/kg)</b>						
<b>SVOCs (ug/kg)</b>						
Benzo(a)pyrene	19 J	ND	ND	ND	ND	90 / 1300 / 2100
<b>Total Metals (mg/kg)</b>						
Arsenic, Total	2.8 J	5	8.3	5.7	8.3	11.3/13.0
Barium, Total	28 J-	44	39	41	38	1500
Beryllium, Total	0.29	0.57	0.48	0.53	0.51	22
Cadmium, Total	0.68 J	0.087 J	0.12	0.079 J	0.085 J	5.2
Chromium, Total	8.2 J+	17 B	14 B	16 B	15 B	21
Cobalt, Total	4.7 J	12	10	11	11	20
Copper, Total	12 J-	22	20	21	23	2900
Iron, Total	13000 J	19000	17000	17000	17000	15000/15900
Lead, Total	6.2 J-	12	10	11	11	107
Magnesium, Total	19000 J-	38000	33000	35000	38000	325000
Manganese, Total	290 J	440 B	420 B	380 B	390 B	630/636
Mercury, Total	2.3E-06 J	0.028	0.022	0.018	0.022	0.89
Nickel, Total	11	28	24	28	27	100
Selenium, Total	0.25 J	0.38 J	0.31 J	0.38 J	0.36 J	1.3
<b>TCLP Metals (mg/l)</b>						
Arsenic, TCLP	ND	ND	ND	ND	ND	0.05
Barium, TCLP	0.36 J	0.39 J	0.47 J	0.44 J	0.42 J	2
Beryllium, TCLP	ND	ND	ND	ND	ND	0.004
Cadmium, TCLP	ND	ND	ND	ND	ND	0.005
Chromium, TCLP	ND	ND	ND	ND	ND	0.1
Cobalt, TCLP	ND	ND	ND	ND	ND	1
Copper, TCLP	0.021 J	ND	ND	ND	ND	0.65
Iron, TCLP	ND	ND	ND	ND	ND	5
Lead, TCLP	ND	ND	ND	ND	ND	0.0075
Manganese, TCLP	3.9	0.92	1.2	0.95	0.89	0.15
Mercury, TCLP	ND	ND	ND	ND	ND	0.002
Nickel, TCLP	ND	ND	0.011 J	0.027	0.029	0.1
Selenium, TCLP	ND	ND	ND	ND	ND	0.05
<b>SPLP Metals (mg/l)</b>						
Arsenic, SPLP	0.031 J	ND	ND	ND	ND	0.05
Barium, SPLP	0.25 J	ND	ND	ND	ND	2
Beryllium, SPLP	ND	ND	ND	ND	ND	0.004
Cadmium, SPLP	ND	ND	ND	ND	ND	0.005
Chromium, SPLP	0.067	ND	ND	ND	ND	0.1
Cobalt, SPLP	0.03	ND	ND	ND	ND	1
Copper, SPLP	0.13	ND	ND	0.05	ND	0.65
Iron, SPLP	76 J+	0.63 J	0.75 J	ND	0.46 J	5
Lead, SPLP	0.093	ND	ND	ND	ND	0.0075
Manganese, SPLP	0.97	0.057	0.057	0.022 J	ND	0.15
Mercury, SPLP	0.0002	ND	ND	ND	ND	0.002
Nickel, SPLP	0.076	ND	ND	ND	ND	0.1
Selenium, SPLP	ND	ND	ND	ND	ND	0.05



**Summary Table of ISGS Site No. 2732-3**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAP 541 (IL Route 132; Grand Avenue) at Fairfield Road**  
**Unincorporated Lake County, Illinois**

Field Sample ID	VL-5(0-4)-072514	VL-6(0-4)-072514	VL-7(0-4)-072514	VL-8(0-4)-072514	Soil Reference Concentrations <sup>A</sup>
Sample Date	7/25/2014	7/25/2014	7/25/2014	7/25/2014	
Location ID	VL-5	VL-6	VL-7	VL-8	
Depth	0 - 4	0 - 4	0 - 4	0 - 4	
ISGS Site Number	2732-3	2732-3	2732-3	2732-3	
<b>Parameter</b>					
Laboratory pH (standard units)	8.82	8.25	7.94	8.61	<6.25, >9.0
<b>VOCs (ug/kg)</b>					
<b>SVOCs (ug/kg)</b>					
Benzo(a)pyrene	ND	27 J	97	33 J	90 / 1300 / 2100
<b>Total Metals (mg/kg)</b>					
Arsenic, Total	6.5 J	7.1 J	0.83 J	4.3 J	11.3/13.0
Barium, Total	37 J-	56 J-	10 J-	82 J-	1500
Beryllium, Total	0.6	0.6	0.05 J	0.54	22
Cadmium, Total	1.2 J	1.1 J	0.12 J	0.68 J	5.2
Chromium, Total	17 J+	17 J+	2.2 J+	15 J+	21
Cobalt, Total	11 J	10 J	0.46 J	5 J	20
Copper, Total	27 J-	25 J-	3.4 J-	18 J-	2900
Iron, Total	19000 J	19000 J	2500 J	13000 J	15000/15900
Lead, Total	12 J-	24 J-	6.9 J-	13 J-	107
Magnesium, Total	33000 J-	22000 J-	3600 J-	3700 J-	325000
Manganese, Total	500 J	550 J	80 J	290 J	630/636
Mercury, Total	0.024 J	0.0084 J	0.012 J	0.023 J	0.89
Nickel, Total	27	23	1.8	16	100
Selenium, Total	ND	0.48 J	0.55 J	0.93 J-	1.3
<b>TCLP Metals (mg/l)</b>					
Arsenic, TCLP	ND	ND	ND	ND	0.05
Barium, TCLP	0.3 J	0.34 J	0.32 J	0.22 J	2
Beryllium, TCLP	ND	ND	ND	ND	0.004
Cadmium, TCLP	ND	ND	ND	ND	0.005
Chromium, TCLP	ND	ND	ND	ND	0.1
Cobalt, TCLP	ND	ND	ND	ND	1
Copper, TCLP	ND	0.065	0.015 J	0.017 J	0.65
Iron, TCLP	ND	0.21	ND	ND	5
Lead, TCLP	ND	ND	ND	ND	0.0075
Manganese, TCLP	0.43	0.36	3.1	0.42	0.15
Mercury, TCLP	ND	ND	ND	ND	0.002
Nickel, TCLP	ND	ND	ND	ND	0.1
Selenium, TCLP	ND	ND	ND	ND	0.05
<b>SPLP Metals (mg/l)</b>					
Arsenic, SPLP	0.049 J	0.041 J	ND	0.032 J	0.05
Barium, SPLP	0.27 J	0.36 J	0.075 J	0.56	2
Beryllium, SPLP	ND	0.0044	ND	0.0056	0.004
Cadmium, SPLP	ND	ND	ND	ND	0.005
Chromium, SPLP	0.091	0.12	0.03	0.17	0.1
Cobalt, SPLP	0.026	0.039	ND	0.037	1
Copper, SPLP	0.14	0.12	0.031	0.13	0.65
Iron, SPLP	100 J+	120 J+	22 J+	150 J+	5
Lead, SPLP	0.045	0.1	0.11	0.12	0.0075
Manganese, SPLP	0.41	0.86	0.34	0.93	0.15
Mercury, SPLP	0.00023	ND	ND	ND	0.002
Nickel, SPLP	0.1	0.13	0.023 J	0.13	0.1
Selenium, SPLP	ND	ND	ND	ND	0.05

**Notes:**

--- - not applicable or value not available.

<sup>A</sup> - 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: 500-81266-1  
Client Project/Site: IDOT - IL Rt. 132 - WO 046

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

Attn: Mr. S. Babusukumar



Authorized for release by:  
8/11/2014 4:30:03 PM

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

### LINKS

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

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

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# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81266-1

**Client Sample ID: VL-8(0-4)-072514**

**Lab Sample ID: 500-81266-16**

**Date Collected: 07/25/14 12:40**

**Matrix: Solid**

**Date Received: 07/26/14 06:30**

**Percent Solids: 78.0**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<6.4		6.4	2.8	ug/Kg	☼		07/30/14 06:18	1
Benzene	<6.4		6.4	0.88	ug/Kg	☼		07/30/14 06:18	1
Bromodichloromethane	<6.4		6.4	1.1	ug/Kg	☼		07/30/14 06:18	1
Bromoform	<6.4		6.4	1.5	ug/Kg	☼		07/30/14 06:18	1
Bromomethane	<6.4		6.4	1.9	ug/Kg	☼		07/30/14 06:18	1
Carbon disulfide	<6.4		6.4	0.96	ug/Kg	☼		07/30/14 06:18	1
Carbon tetrachloride	<6.4		6.4	1.2	ug/Kg	☼		07/30/14 06:18	1
Chlorobenzene	<6.4		6.4	0.65	ug/Kg	☼		07/30/14 06:18	1
Chloroethane	<6.4		6.4	1.7	ug/Kg	☼		07/30/14 06:18	1
Chloroform	<6.4		6.4	0.74	ug/Kg	☼		07/30/14 06:18	1
Chloromethane	<6.4		6.4	1.3	ug/Kg	☼		07/30/14 06:18	1
cis-1,2-Dichloroethene	<6.4		6.4	0.91	ug/Kg	☼		07/30/14 06:18	1
cis-1,3-Dichloropropene	<6.4		6.4	0.84	ug/Kg	☼		07/30/14 06:18	1
Dibromochloromethane	<6.4		6.4	1.1	ug/Kg	☼		07/30/14 06:18	1
1,1-Dichloroethane	<6.4		6.4	1.0	ug/Kg	☼		07/30/14 06:18	1
1,2-Dichloroethane	<6.4		6.4	0.95	ug/Kg	☼		07/30/14 06:18	1
1,1-Dichloroethene	<6.4		6.4	1.0	ug/Kg	☼		07/30/14 06:18	1
1,2-Dichloropropane	<6.4		6.4	0.97	ug/Kg	☼		07/30/14 06:18	1
1,3-Dichloropropene, Total	<6.4		6.4	0.84	ug/Kg	☼		07/30/14 06:18	1
Ethylbenzene	<6.4		6.4	1.3	ug/Kg	☼		07/30/14 06:18	1
2-Hexanone	<6.4		6.4	1.8	ug/Kg	☼		07/30/14 06:18	1
Methylene Chloride	<6.4		6.4	1.7	ug/Kg	☼		07/30/14 06:18	1
Methyl Ethyl Ketone	<6.4		6.4	2.3	ug/Kg	☼		07/30/14 06:18	1
methyl isobutyl ketone	<6.4		6.4	1.7	ug/Kg	☼		07/30/14 06:18	1
Methyl tert-butyl ether	<6.4		6.4	1.1	ug/Kg	☼		07/30/14 06:18	1
Styrene	<6.4		6.4	0.84	ug/Kg	☼		07/30/14 06:18	1
1,1,2,2-Tetrachloroethane	<6.4		6.4	1.3	ug/Kg	☼		07/30/14 06:18	1
Tetrachloroethene	<6.4		6.4	0.98	ug/Kg	☼		07/30/14 06:18	1
Toluene	<6.4		6.4	0.90	ug/Kg	☼		07/30/14 06:18	1
trans-1,2-Dichloroethene	<6.4		6.4	0.88	ug/Kg	☼		07/30/14 06:18	1
trans-1,3-Dichloropropene	<6.4		6.4	1.1	ug/Kg	☼		07/30/14 06:18	1
1,1,1-Trichloroethane	<6.4		6.4	0.96	ug/Kg	☼		07/30/14 06:18	1
1,1,2-Trichloroethane	<6.4		6.4	0.87	ug/Kg	☼		07/30/14 06:18	1
Trichloroethene	<6.4		6.4	1.1	ug/Kg	☼		07/30/14 06:18	1
Vinyl chloride	<6.4		6.4	1.3	ug/Kg	☼		07/30/14 06:18	1
Xylenes, Total	<13		13	0.58	ug/Kg	☼		07/30/14 06:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 122		07/30/14 06:18	1
Dibromofluoromethane	114		75 - 120		07/30/14 06:18	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 134		07/30/14 06:18	1
Toluene-d8 (Surr)	98		75 - 122		07/30/14 06:18	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	☼	08/07/14 07:44	08/08/14 06:47	1
1,2-Dichlorobenzene	<200		200	48	ug/Kg	☼	08/07/14 07:44	08/08/14 06:47	1
1,3-Dichlorobenzene	<200		200	45	ug/Kg	☼	08/07/14 07:44	08/08/14 06:47	1
1,4-Dichlorobenzene	<200		200	51	ug/Kg	☼	08/07/14 07:44	08/08/14 06:47	1
2,2'-oxybis[1-chloropropane]	<200		200	46	ug/Kg	☼	08/07/14 07:44	08/08/14 06:47	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81266-1

**Client Sample ID: VL-8(0-4)-072514**

**Lab Sample ID: 500-81266-16**

**Date Collected: 07/25/14 12:40**

**Matrix: Solid**

**Date Received: 07/26/14 06:30**

**Percent Solids: 78.0**

**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	91	ug/Kg	☼	08/07/14 07:44	08/08/14 06:47	1
2,4,6-Trichlorophenol	<400		400	140	ug/Kg	☼	08/07/14 07:44	08/08/14 06:47	1
2,4-Dichlorophenol	<400		400	95	ug/Kg	☼	08/07/14 07:44	08/08/14 06:47	1
2,4-Dimethylphenol	<400		400	150	ug/Kg	☼	08/07/14 07:44	08/08/14 06:47	1
2,4-Dinitrophenol	<810		810	700	ug/Kg	☼	08/07/14 07:44	08/08/14 06:47	1
2,4-Dinitrotoluene	<200		200	64	ug/Kg	☼	08/07/14 07:44	08/08/14 06:47	1
2,6-Dinitrotoluene	<200		200	79	ug/Kg	☼	08/07/14 07:44	08/08/14 06:47	1
2-Chloronaphthalene	<200		200	44	ug/Kg	☼	08/07/14 07:44	08/08/14 06:47	1
2-Chlorophenol	<200		200	68	ug/Kg	☼	08/07/14 07:44	08/08/14 06:47	1
2-Methylnaphthalene	<40		40	7.4	ug/Kg	☼	08/07/14 07:44	08/08/14 06:47	1
2-Methylphenol	<200		200	64	ug/Kg	☼	08/07/14 07:44	08/08/14 06:47	1
2-Nitroaniline	<200		200	54	ug/Kg	☼	08/07/14 07:44	08/08/14 06:47	1
2-Nitrophenol	<400		400	94	ug/Kg	☼	08/07/14 07:44	08/08/14 06:47	1
3 & 4 Methylphenol	<200		200	67	ug/Kg	☼	08/07/14 07:44	08/08/14 06:47	1
3,3'-Dichlorobenzidine	<200		200	56	ug/Kg	☼	08/07/14 07:44	08/08/14 06:47	1
3-Nitroaniline	<400		400	120	ug/Kg	☼	08/07/14 07:44	08/08/14 06:47	1
4,6-Dinitro-2-methylphenol	<400		400	320	ug/Kg	☼	08/07/14 07:44	08/08/14 06:47	1
4-Bromophenyl phenyl ether	<200		200	53	ug/Kg	☼	08/07/14 07:44	08/08/14 06:47	1
4-Chloro-3-methylphenol	<400		400	140	ug/Kg	☼	08/07/14 07:44	08/08/14 06:47	1
4-Chloroaniline	<810		810	190	ug/Kg	☼	08/07/14 07:44	08/08/14 06:47	1
4-Chlorophenyl phenyl ether	<200		200	47	ug/Kg	☼	08/07/14 07:44	08/08/14 06:47	1
4-Nitroaniline	<400		400	170	ug/Kg	☼	08/07/14 07:44	08/08/14 06:47	1
4-Nitrophenol	<810		810	380	ug/Kg	☼	08/07/14 07:44	08/08/14 06:47	1
Acenaphthene	<40		40	7.2	ug/Kg	☼	08/07/14 07:44	08/08/14 06:47	1
Acenaphthylene	<40		40	5.3	ug/Kg	☼	08/07/14 07:44	08/08/14 06:47	1
Anthracene	<40		40	6.7	ug/Kg	☼	08/07/14 07:44	08/08/14 06:47	1
<b>Benzo[a]anthracene</b>	<b>29 J</b>		40	5.4	ug/Kg	☼	08/07/14 07:44	08/08/14 06:47	1
<b>Benzo[a]pyrene</b>	<b>33 J</b>		40	7.7	ug/Kg	☼	08/07/14 07:44	08/08/14 06:47	1
<b>Benzo[b]fluoranthene</b>	<b>64</b>		40	8.6	ug/Kg	☼	08/07/14 07:44	08/08/14 06:47	1
<b>Benzo[g,h,i]perylene</b>	<b>35 J</b>		40	13	ug/Kg	☼	08/07/14 07:44	08/08/14 06:47	1
<b>Benzo[k]fluoranthene</b>	<b>16 J</b>		40	12	ug/Kg	☼	08/07/14 07:44	08/08/14 06:47	1
Bis(2-chloroethoxy)methane	<200		200	41	ug/Kg	☼	08/07/14 07:44	08/08/14 06:47	1
Bis(2-chloroethyl)ether	<200		200	60	ug/Kg	☼	08/07/14 07:44	08/08/14 06:47	1
Bis(2-ethylhexyl) phthalate	<200		200	73	ug/Kg	☼	08/07/14 07:44	08/08/14 06:47	1
Butyl benzyl phthalate	<200		200	76	ug/Kg	☼	08/07/14 07:44	08/08/14 06:47	1
Carbazole	<200		200	100	ug/Kg	☼	08/07/14 07:44	08/08/14 06:47	1
<b>Chrysene</b>	<b>39 J</b>		40	11	ug/Kg	☼	08/07/14 07:44	08/08/14 06:47	1
Dibenz(a,h)anthracene	<40		40	7.7	ug/Kg	☼	08/07/14 07:44	08/08/14 06:47	1
Dibenzofuran	<200		200	47	ug/Kg	☼	08/07/14 07:44	08/08/14 06:47	1
Diethyl phthalate	<200		200	68	ug/Kg	☼	08/07/14 07:44	08/08/14 06:47	1
Dimethyl phthalate	<200		200	52	ug/Kg	☼	08/07/14 07:44	08/08/14 06:47	1
Di-n-butyl phthalate	<200		200	61	ug/Kg	☼	08/07/14 07:44	08/08/14 06:47	1
Di-n-octyl phthalate	<200		200	65	ug/Kg	☼	08/07/14 07:44	08/08/14 06:47	1
<b>Fluoranthene</b>	<b>54</b>		40	7.4	ug/Kg	☼	08/07/14 07:44	08/08/14 06:47	1
Fluorene	<40		40	5.6	ug/Kg	☼	08/07/14 07:44	08/08/14 06:47	1
Hexachlorobenzene	<81		81	9.3	ug/Kg	☼	08/07/14 07:44	08/08/14 06:47	1
Hexachlorobutadiene	<200		200	63	ug/Kg	☼	08/07/14 07:44	08/08/14 06:47	1
Hexachlorocyclopentadiene	<810		810	230	ug/Kg	☼	08/07/14 07:44	08/08/14 06:47	1
Hexachloroethane	<200		200	61	ug/Kg	☼	08/07/14 07:44	08/08/14 06:47	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81266-1

**Client Sample ID: VL-8(0-4)-072514**

**Lab Sample ID: 500-81266-16**

**Date Collected: 07/25/14 12:40**

**Matrix: Solid**

**Date Received: 07/26/14 06:30**

**Percent Solids: 78.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Indeno[1,2,3-cd]pyrene</b>	<b>35</b>	<b>J</b>	40	10	ug/Kg	☼	08/07/14 07:44	08/08/14 06:47	1
Isophorone	<200		200	45	ug/Kg	☼	08/07/14 07:44	08/08/14 06:47	1
Naphthalene	<40		40	6.1	ug/Kg	☼	08/07/14 07:44	08/08/14 06:47	1
Nitrobenzene	<40		40	10	ug/Kg	☼	08/07/14 07:44	08/08/14 06:47	1
N-Nitrosodi-n-propylamine	<200		200	49	ug/Kg	☼	08/07/14 07:44	08/08/14 06:47	1
N-Nitrosodiphenylamine	<200		200	47	ug/Kg	☼	08/07/14 07:44	08/08/14 06:47	1
Pentachlorophenol	<810		810	640	ug/Kg	☼	08/07/14 07:44	08/08/14 06:47	1
<b>Phenanthrene</b>	<b>18</b>	<b>J</b>	40	5.6	ug/Kg	☼	08/07/14 07:44	08/08/14 06:47	1
Phenol	<200		200	89	ug/Kg	☼	08/07/14 07:44	08/08/14 06:47	1
<b>Pyrene</b>	<b>110</b>		40	7.9	ug/Kg	☼	08/07/14 07:44	08/08/14 06:47	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2,4,6-Tribromophenol	60		35 - 137				08/07/14 07:44	08/08/14 06:47	1
2-Fluorobiphenyl	44		25 - 119				08/07/14 07:44	08/08/14 06:47	1
2-Fluorophenol	43		25 - 110				08/07/14 07:44	08/08/14 06:47	1
Nitrobenzene-d5	39		25 - 115				08/07/14 07:44	08/08/14 06:47	1
Phenol-d5	44		31 - 110				08/07/14 07:44	08/08/14 06:47	1
Terphenyl-d14	118		36 - 134				08/07/14 07:44	08/08/14 06:47	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		08/05/14 08:30	08/06/14 03:21	1
<b>Barium</b>	<b>0.22</b>	<b>J</b>	0.50	0.050	mg/L		08/05/14 08:30	08/06/14 03:21	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/05/14 08:30	08/06/14 03:21	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/05/14 08:30	08/06/14 03:21	1
Chromium	<0.025		0.025	0.010	mg/L		08/05/14 08:30	08/06/14 03:21	1
Cobalt	<0.025		0.025	0.010	mg/L		08/05/14 08:30	08/06/14 03:21	1
<b>Copper</b>	<b>0.017</b>	<b>J</b>	0.025	0.010	mg/L		08/05/14 08:30	08/06/14 03:21	1
Iron	<0.20		0.20	0.20	mg/L		08/05/14 08:30	08/06/14 03:21	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/05/14 08:30	08/06/14 03:21	1
<b>Manganese</b>	<b>0.42</b>		0.025	0.010	mg/L		08/05/14 08:30	08/06/14 03:21	1
Nickel	<0.025		0.025	0.010	mg/L		08/05/14 08:30	08/06/14 03:21	1
Selenium	<0.050		0.050	0.010	mg/L		08/05/14 08:30	08/06/14 03:21	1
Silver	<0.025		0.025	0.010	mg/L		08/05/14 08:30	08/06/14 03:21	1
<b>Zinc</b>	<b>0.028</b>	<b>J</b>	0.10	0.020	mg/L		08/05/14 08:30	08/06/14 03:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.032</b>	<b>J</b>	0.050	0.010	mg/L		08/05/14 10:30	08/06/14 06:25	1
<b>Barium</b>	<b>0.56</b>		0.50	0.050	mg/L		08/05/14 10:30	08/06/14 06:25	1
<b>Beryllium</b>	<b>0.0056</b>		0.0040	0.0040	mg/L		08/05/14 10:30	08/06/14 06:25	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/05/14 10:30	08/06/14 06:25	1
<b>Chromium</b>	<b>0.17</b>		0.025	0.010	mg/L		08/05/14 10:30	08/06/14 06:25	1
<b>Cobalt</b>	<b>0.037</b>		0.025	0.010	mg/L		08/05/14 10:30	08/06/14 06:25	1
<b>Copper</b>	<b>0.13</b>		0.025	0.010	mg/L		08/05/14 10:30	08/06/14 06:25	1
<b>Iron</b>	<b>150</b>		0.20	0.20	mg/L		08/05/14 10:30	08/06/14 06:25	1
<b>Lead</b>	<b>0.12</b>		0.0075	0.0075	mg/L		08/05/14 10:30	08/06/14 06:25	1
<b>Manganese</b>	<b>0.93</b>		0.025	0.010	mg/L		08/05/14 10:30	08/06/14 06:25	1
<b>Nickel</b>	<b>0.13</b>		0.025	0.010	mg/L		08/05/14 10:30	08/06/14 06:25	1
Selenium	<0.050		0.050	0.010	mg/L		08/05/14 10:30	08/06/14 06:25	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81266-1

**Client Sample ID: VL-8(0-4)-072514**

**Lab Sample ID: 500-81266-16**

Date Collected: 07/25/14 12:40

Matrix: Solid

Date Received: 07/26/14 06:30

**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		08/05/14 10:30	08/06/14 06:25	1
Zinc	0.45	B	0.10	0.020	mg/L		08/05/14 10:30	08/06/14 06:25	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.49	mg/Kg	☼	08/01/14 17:50	08/04/14 23:36	1
Arsenic	4.3		0.61	0.12	mg/Kg	☼	08/01/14 17:50	08/04/14 23:36	1
Barium	82		0.61	0.065	mg/Kg	☼	08/01/14 17:50	08/04/14 23:36	1
Beryllium	0.54		0.24	0.049	mg/Kg	☼	08/01/14 17:50	08/04/14 23:36	1
Cadmium	0.68		0.12	0.015	mg/Kg	☼	08/01/14 17:50	08/04/14 23:36	1
Calcium	8200		12	3.3	mg/Kg	☼	08/01/14 17:50	08/04/14 23:36	1
Chromium	15	B	0.61	0.070	mg/Kg	☼	08/01/14 17:50	08/04/14 23:36	1
Cobalt	5.0		0.30	0.061	mg/Kg	☼	08/01/14 17:50	08/04/14 23:36	1
Copper	18		0.61	0.12	mg/Kg	☼	08/01/14 17:50	08/04/14 23:36	1
Iron	13000		12	5.0	mg/Kg	☼	08/01/14 17:50	08/04/14 23:36	1
Lead	13	B	0.30	0.090	mg/Kg	☼	08/01/14 17:50	08/04/14 23:36	1
Magnesium	3700		6.1	1.3	mg/Kg	☼	08/01/14 17:50	08/04/14 23:36	1
Manganese	290		0.61	0.12	mg/Kg	☼	08/01/14 17:50	08/04/14 23:36	1
Nickel	16		0.61	0.12	mg/Kg	☼	08/01/14 17:50	08/04/14 23:36	1
Potassium	1200		30	1.8	mg/Kg	☼	08/01/14 17:50	08/04/14 23:36	1
Selenium	0.93		0.61	0.22	mg/Kg	☼	08/01/14 17:50	08/04/14 23:36	1
Silver	0.036	J	0.30	0.022	mg/Kg	☼	08/01/14 17:50	08/04/14 23:36	1
Sodium	5500		3000	410	mg/Kg	☼	08/01/14 17:50	08/05/14 21:28	50
Thallium	0.35	J	0.61	0.26	mg/Kg	☼	08/01/14 17:50	08/04/14 23:36	1
Vanadium	21	B	0.30	0.045	mg/Kg	☼	08/01/14 17:50	08/04/14 23:36	1
Zinc	35		1.2	0.25	mg/Kg	☼	08/01/14 17:50	08/04/14 23:36	1

**Method: 7470A - Mercury (CVAA) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		08/05/14 12:00	08/06/14 10:37	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		08/05/14 12:00	08/06/14 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	23		21	8.3	ug/Kg	☼	08/01/14 12:00	08/04/14 13:14	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.61		0.200	0.200	SU			08/01/14 14:45	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81266-1

**Client Sample ID: VL-7(0-4)-072514**

**Lab Sample ID: 500-81266-17**

Date Collected: 07/25/14 12:57

Matrix: Solid

Date Received: 07/26/14 06:30

Percent Solids: 82.4

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<6.1		6.1	0.83	ug/Kg	☼		07/30/14 18:20	1
Bromodichloromethane	<6.1		6.1	1.0	ug/Kg	☼		07/30/14 18:20	1
Bromoform	<6.1		6.1	1.4	ug/Kg	☼		07/30/14 18:20	1
Bromomethane	<6.1		6.1	1.8	ug/Kg	☼		07/30/14 18:20	1
Carbon disulfide	<6.1	*	6.1	0.91	ug/Kg	☼		07/30/14 18:20	1
Carbon tetrachloride	<6.1		6.1	1.1	ug/Kg	☼		07/30/14 18:20	1
Chlorobenzene	<6.1		6.1	0.61	ug/Kg	☼		07/30/14 18:20	1
Chloroethane	<6.1		6.1	1.6	ug/Kg	☼		07/30/14 18:20	1
Chloroform	<6.1		6.1	0.70	ug/Kg	☼		07/30/14 18:20	1
Chloromethane	<6.1		6.1	1.3	ug/Kg	☼		07/30/14 18:20	1
cis-1,2-Dichloroethene	<6.1		6.1	0.86	ug/Kg	☼		07/30/14 18:20	1
cis-1,3-Dichloropropene	<6.1		6.1	0.80	ug/Kg	☼		07/30/14 18:20	1
Dibromochloromethane	<6.1		6.1	1.1	ug/Kg	☼		07/30/14 18:20	1
1,1-Dichloroethane	<6.1		6.1	0.96	ug/Kg	☼		07/30/14 18:20	1
1,2-Dichloroethane	<6.1		6.1	0.90	ug/Kg	☼		07/30/14 18:20	1
1,1-Dichloroethene	<6.1		6.1	0.98	ug/Kg	☼		07/30/14 18:20	1
1,2-Dichloropropane	<6.1		6.1	0.92	ug/Kg	☼		07/30/14 18:20	1
1,3-Dichloropropene, Total	<6.1		6.1	0.80	ug/Kg	☼		07/30/14 18:20	1
Ethylbenzene	<6.1		6.1	1.2	ug/Kg	☼		07/30/14 18:20	1
2-Hexanone	<6.1		6.1	1.7	ug/Kg	☼		07/30/14 18:20	1
Methylene Chloride	<6.1		6.1	1.6	ug/Kg	☼		07/30/14 18:20	1
<b>Methyl Ethyl Ketone</b>	<b>44</b>		6.1	2.2	ug/Kg	☼		07/30/14 18:20	1
methyl isobutyl ketone	<6.1		6.1	1.6	ug/Kg	☼		07/30/14 18:20	1
Methyl tert-butyl ether	<6.1		6.1	1.0	ug/Kg	☼		07/30/14 18:20	1
Styrene	<6.1		6.1	0.80	ug/Kg	☼		07/30/14 18:20	1
1,1,1,2-Tetrachloroethane	<6.1		6.1	1.2	ug/Kg	☼		07/30/14 18:20	1
Tetrachloroethene	<6.1		6.1	0.93	ug/Kg	☼		07/30/14 18:20	1
Toluene	<6.1		6.1	0.85	ug/Kg	☼		07/30/14 18:20	1
trans-1,2-Dichloroethene	<6.1	*	6.1	0.83	ug/Kg	☼		07/30/14 18:20	1
trans-1,3-Dichloropropene	<6.1		6.1	1.1	ug/Kg	☼		07/30/14 18:20	1
1,1,1-Trichloroethane	<6.1	*	6.1	0.91	ug/Kg	☼		07/30/14 18:20	1
1,1,1,2-Trichloroethane	<6.1		6.1	0.83	ug/Kg	☼		07/30/14 18:20	1
Trichloroethene	<6.1		6.1	1.0	ug/Kg	☼		07/30/14 18:20	1
Vinyl chloride	<6.1		6.1	1.3	ug/Kg	☼		07/30/14 18:20	1
Xylenes, Total	<12		12	0.55	ug/Kg	☼		07/30/14 18:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122		07/30/14 18:20	1
Dibromofluoromethane	106		75 - 120		07/30/14 18:20	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 134		07/30/14 18:20	1
Toluene-d8 (Surr)	100		75 - 122		07/30/14 18:20	1

**Method: 8260B - VOC - DL**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>420</b>		12	5.2	ug/Kg	☼		07/31/14 16:46	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 122		07/31/14 16:46	2
Dibromofluoromethane	108		75 - 120		07/31/14 16:46	2
1,2-Dichloroethane-d4 (Surr)	89		70 - 134		07/31/14 16:46	2

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81266-1

**Client Sample ID: VL-7(0-4)-072514**

**Lab Sample ID: 500-81266-17**

Date Collected: 07/25/14 12:57

Matrix: Solid

Date Received: 07/26/14 06:30

Percent Solids: 82.4

**Method: 8260B - VOC - DL (Continued)**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		75 - 122		07/31/14 16:46	2

**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	☼	08/07/14 07:44	08/09/14 01:52	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	08/07/14 07:44	08/09/14 01:52	1
1,3-Dichlorobenzene	<190		190	44	ug/Kg	☼	08/07/14 07:44	08/09/14 01:52	1
1,4-Dichlorobenzene	<190		190	50	ug/Kg	☼	08/07/14 07:44	08/09/14 01:52	1
2,2'-oxybis[1-chloropropane]	<190		190	45	ug/Kg	☼	08/07/14 07:44	08/09/14 01:52	1
2,4,5-Trichlorophenol	<380		380	88	ug/Kg	☼	08/07/14 07:44	08/09/14 01:52	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	08/07/14 07:44	08/09/14 01:52	1
2,4-Dichlorophenol	<380		380	92	ug/Kg	☼	08/07/14 07:44	08/09/14 01:52	1
2,4-Dimethylphenol	<380		380	150	ug/Kg	☼	08/07/14 07:44	08/09/14 01:52	1
2,4-Dinitrophenol	<780		780	680	ug/Kg	☼	08/07/14 07:44	08/09/14 01:52	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	08/07/14 07:44	08/09/14 01:52	1
2,6-Dinitrotoluene	<190		190	76	ug/Kg	☼	08/07/14 07:44	08/09/14 01:52	1
2-Chloronaphthalene	<190		190	43	ug/Kg	☼	08/07/14 07:44	08/09/14 01:52	1
2-Chlorophenol	<190		190	66	ug/Kg	☼	08/07/14 07:44	08/09/14 01:52	1
2-Methylnaphthalene	<38		38	7.1	ug/Kg	☼	08/07/14 07:44	08/09/14 01:52	1
2-Methylphenol	<190		190	62	ug/Kg	☼	08/07/14 07:44	08/09/14 01:52	1
2-Nitroaniline	<190		190	52	ug/Kg	☼	08/07/14 07:44	08/09/14 01:52	1
2-Nitrophenol	<380		380	91	ug/Kg	☼	08/07/14 07:44	08/09/14 01:52	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	☼	08/07/14 07:44	08/09/14 01:52	1
3,3'-Dichlorobenzidine	<190		190	54	ug/Kg	☼	08/07/14 07:44	08/09/14 01:52	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	08/07/14 07:44	08/09/14 01:52	1
4,6-Dinitro-2-methylphenol	<380		380	310	ug/Kg	☼	08/07/14 07:44	08/09/14 01:52	1
4-Bromophenyl phenyl ether	<190		190	51	ug/Kg	☼	08/07/14 07:44	08/09/14 01:52	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	08/07/14 07:44	08/09/14 01:52	1
4-Chloroaniline	<780		780	180	ug/Kg	☼	08/07/14 07:44	08/09/14 01:52	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	08/07/14 07:44	08/09/14 01:52	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	08/07/14 07:44	08/09/14 01:52	1
4-Nitrophenol	<780		780	370	ug/Kg	☼	08/07/14 07:44	08/09/14 01:52	1
Acenaphthene	<38		38	6.9	ug/Kg	☼	08/07/14 07:44	08/09/14 01:52	1
Acenaphthylene	<38		38	5.1	ug/Kg	☼	08/07/14 07:44	08/09/14 01:52	1
<b>Anthracene</b>	<b>16</b>	<b>J</b>	38	6.5	ug/Kg	☼	08/07/14 07:44	08/09/14 01:52	1
<b>Benzo[a]anthracene</b>	<b>88</b>		38	5.2	ug/Kg	☼	08/07/14 07:44	08/09/14 01:52	1
<b>Benzo[a]pyrene</b>	<b>97</b>		38	7.5	ug/Kg	☼	08/07/14 07:44	08/09/14 01:52	1
<b>Benzo[b]fluoranthene</b>	<b>160</b>		38	8.3	ug/Kg	☼	08/07/14 07:44	08/09/14 01:52	1
<b>Benzo[g,h,i]perylene</b>	<b>100</b>		38	12	ug/Kg	☼	08/07/14 07:44	08/09/14 01:52	1
<b>Benzo[k]fluoranthene</b>	<b>63</b>		38	11	ug/Kg	☼	08/07/14 07:44	08/09/14 01:52	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	08/07/14 07:44	08/09/14 01:52	1
Bis(2-chloroethyl)ether	<190		190	58	ug/Kg	☼	08/07/14 07:44	08/09/14 01:52	1
Bis(2-ethylhexyl) phthalate	<190		190	71	ug/Kg	☼	08/07/14 07:44	08/09/14 01:52	1
Butyl benzyl phthalate	<190		190	74	ug/Kg	☼	08/07/14 07:44	08/09/14 01:52	1
Carbazole	<190		190	100	ug/Kg	☼	08/07/14 07:44	08/09/14 01:52	1
<b>Chrysene</b>	<b>120</b>		38	11	ug/Kg	☼	08/07/14 07:44	08/09/14 01:52	1
<b>Dibenz(a,h)anthracene</b>	<b>18</b>	<b>J</b>	38	7.5	ug/Kg	☼	08/07/14 07:44	08/09/14 01:52	1
Dibenzofuran	<190		190	45	ug/Kg	☼	08/07/14 07:44	08/09/14 01:52	1
Diethyl phthalate	<190		190	66	ug/Kg	☼	08/07/14 07:44	08/09/14 01:52	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81266-1

**Client Sample ID: VL-7(0-4)-072514**

**Lab Sample ID: 500-81266-17**

**Date Collected: 07/25/14 12:57**

**Matrix: Solid**

**Date Received: 07/26/14 06:30**

**Percent Solids: 82.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	<190		190	51	ug/Kg	☼	08/07/14 07:44	08/09/14 01:52	1
Di-n-butyl phthalate	<190		190	59	ug/Kg	☼	08/07/14 07:44	08/09/14 01:52	1
Di-n-octyl phthalate	<190		190	63	ug/Kg	☼	08/07/14 07:44	08/09/14 01:52	1
<b>Fluoranthene</b>	<b>230</b>		38	7.2	ug/Kg	☼	08/07/14 07:44	08/09/14 01:52	1
Fluorene	<38		38	5.4	ug/Kg	☼	08/07/14 07:44	08/09/14 01:52	1
Hexachlorobenzene	<78		78	9.0	ug/Kg	☼	08/07/14 07:44	08/09/14 01:52	1
Hexachlorobutadiene	<190		190	61	ug/Kg	☼	08/07/14 07:44	08/09/14 01:52	1
Hexachlorocyclopentadiene	<780		780	220	ug/Kg	☼	08/07/14 07:44	08/09/14 01:52	1
Hexachloroethane	<190		190	59	ug/Kg	☼	08/07/14 07:44	08/09/14 01:52	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>86</b>		38	10	ug/Kg	☼	08/07/14 07:44	08/09/14 01:52	1
Isophorone	<190		190	43	ug/Kg	☼	08/07/14 07:44	08/09/14 01:52	1
Naphthalene	<38		38	5.9	ug/Kg	☼	08/07/14 07:44	08/09/14 01:52	1
Nitrobenzene	<38		38	9.6	ug/Kg	☼	08/07/14 07:44	08/09/14 01:52	1
N-Nitrosodi-n-propylamine	<190		190	47	ug/Kg	☼	08/07/14 07:44	08/09/14 01:52	1
N-Nitrosodiphenylamine	<190		190	46	ug/Kg	☼	08/07/14 07:44	08/09/14 01:52	1
Pentachlorophenol	<780		780	620	ug/Kg	☼	08/07/14 07:44	08/09/14 01:52	1
<b>Phenanthrene</b>	<b>92</b>		38	5.4	ug/Kg	☼	08/07/14 07:44	08/09/14 01:52	1
Phenol	<190		190	86	ug/Kg	☼	08/07/14 07:44	08/09/14 01:52	1
<b>Pyrene</b>	<b>200</b>		38	7.7	ug/Kg	☼	08/07/14 07:44	08/09/14 01:52	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2,4,6-Tribromophenol	80		35 - 137				08/07/14 07:44	08/09/14 01:52	1
2-Fluorobiphenyl	58		25 - 119				08/07/14 07:44	08/09/14 01:52	1
2-Fluorophenol	55		25 - 110				08/07/14 07:44	08/09/14 01:52	1
Nitrobenzene-d5	51		25 - 115				08/07/14 07:44	08/09/14 01:52	1
Phenol-d5	60		31 - 110				08/07/14 07:44	08/09/14 01:52	1
Terphenyl-d14	77		36 - 134				08/07/14 07:44	08/09/14 01:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		08/05/14 08:30	08/06/14 03:27	1
<b>Barium</b>	<b>0.32</b>	<b>J</b>	0.50	0.050	mg/L		08/05/14 08:30	08/06/14 03:27	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/05/14 08:30	08/06/14 03:27	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/05/14 08:30	08/06/14 03:27	1
Chromium	<0.025		0.025	0.010	mg/L		08/05/14 08:30	08/06/14 03:27	1
Cobalt	<0.025		0.025	0.010	mg/L		08/05/14 08:30	08/06/14 03:27	1
<b>Copper</b>	<b>0.015</b>	<b>J</b>	0.025	0.010	mg/L		08/05/14 08:30	08/06/14 03:27	1
Iron	<0.20		0.20	0.20	mg/L		08/05/14 08:30	08/06/14 03:27	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/05/14 08:30	08/06/14 03:27	1
<b>Manganese</b>	<b>3.1</b>		0.025	0.010	mg/L		08/05/14 08:30	08/06/14 03:27	1
Nickel	<0.025		0.025	0.010	mg/L		08/05/14 08:30	08/06/14 03:27	1
Selenium	<0.050		0.050	0.010	mg/L		08/05/14 08:30	08/06/14 03:27	1
Silver	<0.025		0.025	0.010	mg/L		08/05/14 08:30	08/06/14 03:27	1
<b>Zinc</b>	<b>0.15</b>		0.10	0.020	mg/L		08/05/14 08:30	08/06/14 03:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		08/05/14 10:30	08/06/14 06:31	1
<b>Barium</b>	<b>0.075</b>	<b>J</b>	0.50	0.050	mg/L		08/05/14 10:30	08/06/14 06:31	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/05/14 10:30	08/06/14 06:31	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81266-1

**Client Sample ID: VL-7(0-4)-072514**

**Lab Sample ID: 500-81266-17**

Date Collected: 07/25/14 12:57

Matrix: Solid

Date Received: 07/26/14 06:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/05/14 10:30	08/06/14 06:31	1
<b>Chromium</b>	<b>0.030</b>		0.025	0.010	mg/L		08/05/14 10:30	08/06/14 06:31	1
Cobalt	<0.025		0.025	0.010	mg/L		08/05/14 10:30	08/06/14 06:31	1
<b>Copper</b>	<b>0.031</b>		0.025	0.010	mg/L		08/05/14 10:30	08/06/14 06:31	1
<b>Iron</b>	<b>22</b>		0.20	0.20	mg/L		08/05/14 10:30	08/06/14 06:31	1
<b>Lead</b>	<b>0.11</b>		0.0075	0.0075	mg/L		08/05/14 10:30	08/06/14 06:31	1
<b>Manganese</b>	<b>0.34</b>		0.025	0.010	mg/L		08/05/14 10:30	08/06/14 06:31	1
<b>Nickel</b>	<b>0.023</b>	<b>J</b>	0.025	0.010	mg/L		08/05/14 10:30	08/06/14 06:31	1
Selenium	<0.050		0.050	0.010	mg/L		08/05/14 10:30	08/06/14 06:31	1
Silver	<0.025		0.025	0.010	mg/L		08/05/14 10:30	08/06/14 06:31	1
<b>Zinc</b>	<b>0.12</b>	<b>B</b>	0.10	0.020	mg/L		08/05/14 10:30	08/06/14 06:31	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.45	mg/Kg	☼	08/01/14 17:50	08/04/14 23:42	1
<b>Arsenic</b>	<b>0.83</b>		0.56	0.11	mg/Kg	☼	08/01/14 17:50	08/04/14 23:42	1
<b>Barium</b>	<b>10</b>		0.56	0.060	mg/Kg	☼	08/01/14 17:50	08/04/14 23:42	1
<b>Beryllium</b>	<b>0.050</b>	<b>J</b>	0.22	0.045	mg/Kg	☼	08/01/14 17:50	08/04/14 23:42	1
<b>Cadmium</b>	<b>0.12</b>		0.11	0.014	mg/Kg	☼	08/01/14 17:50	08/04/14 23:42	1
<b>Calcium</b>	<b>13000</b>		11	3.0	mg/Kg	☼	08/01/14 17:50	08/04/14 23:42	1
<b>Chromium</b>	<b>2.2</b>	<b>B</b>	0.56	0.065	mg/Kg	☼	08/01/14 17:50	08/04/14 23:42	1
<b>Cobalt</b>	<b>0.46</b>		0.28	0.056	mg/Kg	☼	08/01/14 17:50	08/04/14 23:42	1
<b>Copper</b>	<b>3.4</b>		0.56	0.11	mg/Kg	☼	08/01/14 17:50	08/04/14 23:42	1
<b>Iron</b>	<b>2500</b>		11	4.6	mg/Kg	☼	08/01/14 17:50	08/04/14 23:42	1
<b>Lead</b>	<b>6.9</b>	<b>B</b>	0.28	0.084	mg/Kg	☼	08/01/14 17:50	08/04/14 23:42	1
<b>Magnesium</b>	<b>3600</b>		5.6	1.2	mg/Kg	☼	08/01/14 17:50	08/04/14 23:42	1
<b>Manganese</b>	<b>80</b>		0.56	0.11	mg/Kg	☼	08/01/14 17:50	08/04/14 23:42	1
<b>Nickel</b>	<b>1.8</b>		0.56	0.11	mg/Kg	☼	08/01/14 17:50	08/04/14 23:42	1
<b>Potassium</b>	<b>93</b>		28	1.7	mg/Kg	☼	08/01/14 17:50	08/04/14 23:42	1
<b>Selenium</b>	<b>0.55</b>	<b>J</b>	0.56	0.20	mg/Kg	☼	08/01/14 17:50	08/04/14 23:42	1
<b>Silver</b>	<b>0.027</b>	<b>J</b>	0.28	0.020	mg/Kg	☼	08/01/14 17:50	08/04/14 23:42	1
<b>Sodium</b>	<b>8100</b>		2800	380	mg/Kg	☼	08/01/14 17:50	08/05/14 21:34	50
Thallium	<0.56		0.56	0.24	mg/Kg	☼	08/01/14 17:50	08/04/14 23:42	1
<b>Vanadium</b>	<b>2.3</b>	<b>B</b>	0.28	0.042	mg/Kg	☼	08/01/14 17:50	08/04/14 23:42	1
<b>Zinc</b>	<b>4.2</b>		1.1	0.23	mg/Kg	☼	08/01/14 17:50	08/04/14 23:42	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		08/05/14 12:00	08/06/14 10:39	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		08/05/14 12:00	08/06/14 11:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>12</b>	<b>J</b>	20	7.7	ug/Kg	☼	08/01/14 12:00	08/04/14 13:16	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.94</b>		0.200	0.200	SU			08/01/14 14:45	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81266-1

**Client Sample ID: VL-6(0-4)-072514**

**Lab Sample ID: 500-81266-18**

**Date Collected: 07/25/14 13:10**

**Matrix: Solid**

**Date Received: 07/26/14 06:30**

**Percent Solids: 71.0**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	15		7.0	3.0	ug/Kg	☼		07/30/14 18:43	1
Benzene	<7.0		7.0	0.96	ug/Kg	☼		07/30/14 18:43	1
Bromodichloromethane	<7.0		7.0	1.2	ug/Kg	☼		07/30/14 18:43	1
Bromoform	<7.0		7.0	1.6	ug/Kg	☼		07/30/14 18:43	1
Bromomethane	<7.0		7.0	2.1	ug/Kg	☼		07/30/14 18:43	1
Carbon disulfide	<7.0 *		7.0	1.1	ug/Kg	☼		07/30/14 18:43	1
Carbon tetrachloride	<7.0		7.0	1.3	ug/Kg	☼		07/30/14 18:43	1
Chlorobenzene	<7.0		7.0	0.71	ug/Kg	☼		07/30/14 18:43	1
Chloroethane	<7.0		7.0	1.9	ug/Kg	☼		07/30/14 18:43	1
Chloroform	<7.0		7.0	0.81	ug/Kg	☼		07/30/14 18:43	1
Chloromethane	<7.0		7.0	1.5	ug/Kg	☼		07/30/14 18:43	1
cis-1,2-Dichloroethene	<7.0		7.0	1.0	ug/Kg	☼		07/30/14 18:43	1
cis-1,3-Dichloropropene	<7.0		7.0	0.92	ug/Kg	☼		07/30/14 18:43	1
Dibromochloromethane	<7.0		7.0	1.2	ug/Kg	☼		07/30/14 18:43	1
1,1-Dichloroethane	<7.0		7.0	1.1	ug/Kg	☼		07/30/14 18:43	1
1,2-Dichloroethane	<7.0		7.0	1.0	ug/Kg	☼		07/30/14 18:43	1
1,1-Dichloroethene	<7.0		7.0	1.1	ug/Kg	☼		07/30/14 18:43	1
1,2-Dichloropropane	<7.0		7.0	1.1	ug/Kg	☼		07/30/14 18:43	1
1,3-Dichloropropene, Total	<7.0		7.0	0.92	ug/Kg	☼		07/30/14 18:43	1
Ethylbenzene	<7.0		7.0	1.4	ug/Kg	☼		07/30/14 18:43	1
2-Hexanone	<7.0		7.0	2.0	ug/Kg	☼		07/30/14 18:43	1
Methylene Chloride	<7.0		7.0	1.9	ug/Kg	☼		07/30/14 18:43	1
Methyl Ethyl Ketone	<7.0		7.0	2.5	ug/Kg	☼		07/30/14 18:43	1
methyl isobutyl ketone	<7.0		7.0	1.8	ug/Kg	☼		07/30/14 18:43	1
Methyl tert-butyl ether	<7.0		7.0	1.2	ug/Kg	☼		07/30/14 18:43	1
Styrene	<7.0		7.0	0.92	ug/Kg	☼		07/30/14 18:43	1
1,1,1,2-Tetrachloroethane	<7.0		7.0	1.4	ug/Kg	☼		07/30/14 18:43	1
Tetrachloroethene	<7.0		7.0	1.1	ug/Kg	☼		07/30/14 18:43	1
Toluene	<7.0		7.0	0.99	ug/Kg	☼		07/30/14 18:43	1
trans-1,2-Dichloroethene	<7.0 *		7.0	0.97	ug/Kg	☼		07/30/14 18:43	1
trans-1,3-Dichloropropene	<7.0		7.0	1.3	ug/Kg	☼		07/30/14 18:43	1
1,1,1-Trichloroethane	<7.0 *		7.0	1.1	ug/Kg	☼		07/30/14 18:43	1
1,1,2-Trichloroethane	<7.0		7.0	0.96	ug/Kg	☼		07/30/14 18:43	1
Trichloroethene	<7.0		7.0	1.2	ug/Kg	☼		07/30/14 18:43	1
Vinyl chloride	<7.0		7.0	1.5	ug/Kg	☼		07/30/14 18:43	1
Xylenes, Total	<14		14	0.64	ug/Kg	☼		07/30/14 18:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122		07/30/14 18:43	1
Dibromofluoromethane	107		75 - 120		07/30/14 18:43	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 134		07/30/14 18:43	1
Toluene-d8 (Surr)	100		75 - 122		07/30/14 18:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<220		220	48	ug/Kg	☼	08/07/14 07:44	08/08/14 07:26	1
1,2-Dichlorobenzene	<220		220	53	ug/Kg	☼	08/07/14 07:44	08/08/14 07:26	1
1,3-Dichlorobenzene	<220		220	50	ug/Kg	☼	08/07/14 07:44	08/08/14 07:26	1
1,4-Dichlorobenzene	<220		220	57	ug/Kg	☼	08/07/14 07:44	08/08/14 07:26	1
2,2'-oxybis[1-chloropropane]	<220		220	51	ug/Kg	☼	08/07/14 07:44	08/08/14 07:26	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81266-1

**Client Sample ID: VL-6(0-4)-072514**

**Lab Sample ID: 500-81266-18**

**Date Collected: 07/25/14 13:10**

**Matrix: Solid**

**Date Received: 07/26/14 06:30**

**Percent Solids: 71.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<440		440	100	ug/Kg	☼	08/07/14 07:44	08/08/14 07:26	1
2,4,6-Trichlorophenol	<440		440	150	ug/Kg	☼	08/07/14 07:44	08/08/14 07:26	1
2,4-Dichlorophenol	<440		440	110	ug/Kg	☼	08/07/14 07:44	08/08/14 07:26	1
2,4-Dimethylphenol	<440		440	170	ug/Kg	☼	08/07/14 07:44	08/08/14 07:26	1
2,4-Dinitrophenol	<890		890	780	ug/Kg	☼	08/07/14 07:44	08/08/14 07:26	1
2,4-Dinitrotoluene	<220		220	70	ug/Kg	☼	08/07/14 07:44	08/08/14 07:26	1
2,6-Dinitrotoluene	<220		220	87	ug/Kg	☼	08/07/14 07:44	08/08/14 07:26	1
2-Chloronaphthalene	<220		220	49	ug/Kg	☼	08/07/14 07:44	08/08/14 07:26	1
2-Chlorophenol	<220		220	76	ug/Kg	☼	08/07/14 07:44	08/08/14 07:26	1
2-Methylnaphthalene	<44		44	8.1	ug/Kg	☼	08/07/14 07:44	08/08/14 07:26	1
2-Methylphenol	<220		220	71	ug/Kg	☼	08/07/14 07:44	08/08/14 07:26	1
2-Nitroaniline	<220		220	60	ug/Kg	☼	08/07/14 07:44	08/08/14 07:26	1
2-Nitrophenol	<440		440	100	ug/Kg	☼	08/07/14 07:44	08/08/14 07:26	1
3 & 4 Methylphenol	<220		220	74	ug/Kg	☼	08/07/14 07:44	08/08/14 07:26	1
3,3'-Dichlorobenzidine	<220		220	62	ug/Kg	☼	08/07/14 07:44	08/08/14 07:26	1
3-Nitroaniline	<440		440	140	ug/Kg	☼	08/07/14 07:44	08/08/14 07:26	1
4,6-Dinitro-2-methylphenol	<440		440	360	ug/Kg	☼	08/07/14 07:44	08/08/14 07:26	1
4-Bromophenyl phenyl ether	<220		220	58	ug/Kg	☼	08/07/14 07:44	08/08/14 07:26	1
4-Chloro-3-methylphenol	<440		440	150	ug/Kg	☼	08/07/14 07:44	08/08/14 07:26	1
4-Chloroaniline	<890		890	210	ug/Kg	☼	08/07/14 07:44	08/08/14 07:26	1
4-Chlorophenyl phenyl ether	<220		220	52	ug/Kg	☼	08/07/14 07:44	08/08/14 07:26	1
4-Nitroaniline	<440		440	190	ug/Kg	☼	08/07/14 07:44	08/08/14 07:26	1
4-Nitrophenol	<890		890	420	ug/Kg	☼	08/07/14 07:44	08/08/14 07:26	1
Acenaphthene	<44		44	8.0	ug/Kg	☼	08/07/14 07:44	08/08/14 07:26	1
Acenaphthylene	<44		44	5.8	ug/Kg	☼	08/07/14 07:44	08/08/14 07:26	1
Anthracene	<44		44	7.4	ug/Kg	☼	08/07/14 07:44	08/08/14 07:26	1
<b>Benzo[a]anthracene</b>	<b>20 J</b>		44	6.0	ug/Kg	☼	08/07/14 07:44	08/08/14 07:26	1
<b>Benzo[a]pyrene</b>	<b>27 J</b>		44	8.6	ug/Kg	☼	08/07/14 07:44	08/08/14 07:26	1
Benzo[b]fluoranthene	<44		44	9.6	ug/Kg	☼	08/07/14 07:44	08/08/14 07:26	1
<b>Benzo[g,h,i]perylene</b>	<b>36 J</b>		44	14	ug/Kg	☼	08/07/14 07:44	08/08/14 07:26	1
Benzo[k]fluoranthene	<44		44	13	ug/Kg	☼	08/07/14 07:44	08/08/14 07:26	1
Bis(2-chloroethoxy)methane	<220		220	45	ug/Kg	☼	08/07/14 07:44	08/08/14 07:26	1
Bis(2-chloroethyl)ether	<220		220	66	ug/Kg	☼	08/07/14 07:44	08/08/14 07:26	1
Bis(2-ethylhexyl) phthalate	<220		220	81	ug/Kg	☼	08/07/14 07:44	08/08/14 07:26	1
Butyl benzyl phthalate	<220		220	84	ug/Kg	☼	08/07/14 07:44	08/08/14 07:26	1
Carbazole	<220		220	110	ug/Kg	☼	08/07/14 07:44	08/08/14 07:26	1
<b>Chrysene</b>	<b>29 J</b>		44	12	ug/Kg	☼	08/07/14 07:44	08/08/14 07:26	1
Dibenz(a,h)anthracene	<44		44	8.6	ug/Kg	☼	08/07/14 07:44	08/08/14 07:26	1
Dibenzofuran	<220		220	52	ug/Kg	☼	08/07/14 07:44	08/08/14 07:26	1
Diethyl phthalate	<220		220	75	ug/Kg	☼	08/07/14 07:44	08/08/14 07:26	1
Dimethyl phthalate	<220		220	58	ug/Kg	☼	08/07/14 07:44	08/08/14 07:26	1
Di-n-butyl phthalate	<220		220	67	ug/Kg	☼	08/07/14 07:44	08/08/14 07:26	1
Di-n-octyl phthalate	<220		220	72	ug/Kg	☼	08/07/14 07:44	08/08/14 07:26	1
<b>Fluoranthene</b>	<b>35 J</b>		44	8.2	ug/Kg	☼	08/07/14 07:44	08/08/14 07:26	1
Fluorene	<44		44	6.2	ug/Kg	☼	08/07/14 07:44	08/08/14 07:26	1
Hexachlorobenzene	<89		89	10	ug/Kg	☼	08/07/14 07:44	08/08/14 07:26	1
Hexachlorobutadiene	<220		220	70	ug/Kg	☼	08/07/14 07:44	08/08/14 07:26	1
Hexachlorocyclopentadiene	<890		890	250	ug/Kg	☼	08/07/14 07:44	08/08/14 07:26	1
Hexachloroethane	<220		220	67	ug/Kg	☼	08/07/14 07:44	08/08/14 07:26	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81266-1

**Client Sample ID: VL-6(0-4)-072514**

**Lab Sample ID: 500-81266-18**

**Date Collected: 07/25/14 13:10**

**Matrix: Solid**

**Date Received: 07/26/14 06:30**

**Percent Solids: 71.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Indeno[1,2,3-cd]pyrene</b>	<b>20</b>	<b>J</b>	44	11	ug/Kg	☼	08/07/14 07:44	08/08/14 07:26	1
Isophorone	<220		220	50	ug/Kg	☼	08/07/14 07:44	08/08/14 07:26	1
Naphthalene	<44		44	6.8	ug/Kg	☼	08/07/14 07:44	08/08/14 07:26	1
Nitrobenzene	<44		44	11	ug/Kg	☼	08/07/14 07:44	08/08/14 07:26	1
N-Nitrosodi-n-propylamine	<220		220	54	ug/Kg	☼	08/07/14 07:44	08/08/14 07:26	1
N-Nitrosodiphenylamine	<220		220	52	ug/Kg	☼	08/07/14 07:44	08/08/14 07:26	1
Pentachlorophenol	<890		890	710	ug/Kg	☼	08/07/14 07:44	08/08/14 07:26	1
<b>Phenanthrene</b>	<b>18</b>	<b>J</b>	44	6.2	ug/Kg	☼	08/07/14 07:44	08/08/14 07:26	1
Phenol	<220		220	98	ug/Kg	☼	08/07/14 07:44	08/08/14 07:26	1
<b>Pyrene</b>	<b>88</b>		44	8.8	ug/Kg	☼	08/07/14 07:44	08/08/14 07:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	78		35 - 137				08/07/14 07:44	08/08/14 07:26	1
2-Fluorobiphenyl	61		25 - 119				08/07/14 07:44	08/08/14 07:26	1
2-Fluorophenol	56		25 - 110				08/07/14 07:44	08/08/14 07:26	1
Nitrobenzene-d5	48		25 - 115				08/07/14 07:44	08/08/14 07:26	1
Phenol-d5	61		31 - 110				08/07/14 07:44	08/08/14 07:26	1
Terphenyl-d14	163	X	36 - 134				08/07/14 07:44	08/08/14 07:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		08/05/14 08:30	08/06/14 03:33	1
<b>Barium</b>	<b>0.34</b>	<b>J</b>	0.50	0.050	mg/L		08/05/14 08:30	08/06/14 03:33	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/05/14 08:30	08/06/14 03:33	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/05/14 08:30	08/06/14 03:33	1
Chromium	<0.025		0.025	0.010	mg/L		08/05/14 08:30	08/06/14 03:33	1
Cobalt	<0.025		0.025	0.010	mg/L		08/05/14 08:30	08/06/14 03:33	1
<b>Copper</b>	<b>0.065</b>		0.025	0.010	mg/L		08/05/14 08:30	08/06/14 03:33	1
<b>Iron</b>	<b>0.21</b>		0.20	0.20	mg/L		08/05/14 08:30	08/06/14 03:33	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/05/14 08:30	08/06/14 03:33	1
<b>Manganese</b>	<b>0.36</b>		0.025	0.010	mg/L		08/05/14 08:30	08/06/14 03:33	1
Nickel	<0.025		0.025	0.010	mg/L		08/05/14 08:30	08/06/14 03:33	1
Selenium	<0.050		0.050	0.010	mg/L		08/05/14 08:30	08/06/14 03:33	1
Silver	<0.025		0.025	0.010	mg/L		08/05/14 08:30	08/06/14 03:33	1
<b>Zinc</b>	<b>0.15</b>		0.10	0.020	mg/L		08/05/14 08:30	08/06/14 03:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.041</b>	<b>J</b>	0.050	0.010	mg/L		08/05/14 10:30	08/06/14 06:38	1
<b>Barium</b>	<b>0.36</b>	<b>J</b>	0.50	0.050	mg/L		08/05/14 10:30	08/06/14 06:38	1
<b>Beryllium</b>	<b>0.0044</b>		0.0040	0.0040	mg/L		08/05/14 10:30	08/06/14 06:38	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/05/14 10:30	08/06/14 06:38	1
<b>Chromium</b>	<b>0.12</b>		0.025	0.010	mg/L		08/05/14 10:30	08/06/14 06:38	1
<b>Cobalt</b>	<b>0.039</b>		0.025	0.010	mg/L		08/05/14 10:30	08/06/14 06:38	1
<b>Copper</b>	<b>0.12</b>		0.025	0.010	mg/L		08/05/14 10:30	08/06/14 06:38	1
<b>Iron</b>	<b>120</b>		0.20	0.20	mg/L		08/05/14 10:30	08/06/14 06:38	1
<b>Lead</b>	<b>0.10</b>		0.0075	0.0075	mg/L		08/05/14 10:30	08/06/14 06:38	1
<b>Manganese</b>	<b>0.86</b>		0.025	0.010	mg/L		08/05/14 10:30	08/06/14 06:38	1
<b>Nickel</b>	<b>0.13</b>		0.025	0.010	mg/L		08/05/14 10:30	08/06/14 06:38	1
Selenium	<0.050		0.050	0.010	mg/L		08/05/14 10:30	08/06/14 06:38	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81266-1

**Client Sample ID: VL-6(0-4)-072514**

**Lab Sample ID: 500-81266-18**

Date Collected: 07/25/14 13:10

Matrix: Solid

Date Received: 07/26/14 06:30

**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		08/05/14 10:30	08/06/14 06:38	1
Zinc	0.35	B	0.10	0.020	mg/L		08/05/14 10:30	08/06/14 06:38	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.4		1.4	0.55	mg/Kg	☼	08/01/14 17:50	08/04/14 23:48	1
Arsenic	7.1		0.69	0.14	mg/Kg	☼	08/01/14 17:50	08/04/14 23:48	1
Barium	56		0.69	0.074	mg/Kg	☼	08/01/14 17:50	08/04/14 23:48	1
Beryllium	0.60		0.28	0.055	mg/Kg	☼	08/01/14 17:50	08/04/14 23:48	1
Cadmium	1.1		0.14	0.018	mg/Kg	☼	08/01/14 17:50	08/04/14 23:48	1
Calcium	40000		14	3.7	mg/Kg	☼	08/01/14 17:50	08/04/14 23:48	1
Chromium	17	B	0.69	0.080	mg/Kg	☼	08/01/14 17:50	08/04/14 23:48	1
Cobalt	10		0.34	0.069	mg/Kg	☼	08/01/14 17:50	08/04/14 23:48	1
Copper	25		0.69	0.14	mg/Kg	☼	08/01/14 17:50	08/04/14 23:48	1
Iron	19000		14	5.7	mg/Kg	☼	08/01/14 17:50	08/04/14 23:48	1
Lead	24	B	0.34	0.10	mg/Kg	☼	08/01/14 17:50	08/04/14 23:48	1
Magnesium	22000		6.9	1.4	mg/Kg	☼	08/01/14 17:50	08/04/14 23:48	1
Manganese	550		0.69	0.14	mg/Kg	☼	08/01/14 17:50	08/04/14 23:48	1
Nickel	23		0.69	0.14	mg/Kg	☼	08/01/14 17:50	08/04/14 23:48	1
Potassium	1600		34	2.1	mg/Kg	☼	08/01/14 17:50	08/04/14 23:48	1
Selenium	0.48	J	0.69	0.24	mg/Kg	☼	08/01/14 17:50	08/04/14 23:48	1
Silver	0.061	J	0.34	0.025	mg/Kg	☼	08/01/14 17:50	08/04/14 23:48	1
Sodium	4300		3400	460	mg/Kg	☼	08/01/14 17:50	08/05/14 21:56	50
Thallium	0.72		0.69	0.29	mg/Kg	☼	08/01/14 17:50	08/04/14 23:48	1
Vanadium	22	B	0.34	0.051	mg/Kg	☼	08/01/14 17:50	08/04/14 23:48	1
Zinc	52		1.4	0.28	mg/Kg	☼	08/01/14 17:50	08/04/14 23:48	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		08/05/14 12:00	08/06/14 10:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		08/05/14 12:00	08/06/14 11:38	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	8.4	J	20	7.9	ug/Kg	☼	08/01/14 12:00	08/04/14 13:18	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.25		0.200	0.200	SU			08/01/14 14:45	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81266-1

**Client Sample ID: VL-5(0-4)-072514**

**Lab Sample ID: 500-81266-19**

**Date Collected: 07/25/14 13:25**

**Matrix: Solid**

**Date Received: 07/26/14 06:30**

**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	☼		07/30/14 19:05	1
Benzene	<5.8		5.8	0.80	ug/Kg	☼		07/30/14 19:05	1
Bromodichloromethane	<5.8		5.8	1.0	ug/Kg	☼		07/30/14 19:05	1
Bromoform	<5.8		5.8	1.3	ug/Kg	☼		07/30/14 19:05	1
Bromomethane	<5.8		5.8	1.8	ug/Kg	☼		07/30/14 19:05	1
Carbon disulfide	<5.8 *		5.8	0.87	ug/Kg	☼		07/30/14 19:05	1
Carbon tetrachloride	<5.8		5.8	1.1	ug/Kg	☼		07/30/14 19:05	1
Chlorobenzene	<5.8		5.8	0.59	ug/Kg	☼		07/30/14 19:05	1
Chloroethane	<5.8		5.8	1.6	ug/Kg	☼		07/30/14 19:05	1
Chloroform	<5.8		5.8	0.67	ug/Kg	☼		07/30/14 19:05	1
Chloromethane	<5.8		5.8	1.2	ug/Kg	☼		07/30/14 19:05	1
cis-1,2-Dichloroethene	<5.8		5.8	0.82	ug/Kg	☼		07/30/14 19:05	1
cis-1,3-Dichloropropene	<5.8		5.8	0.76	ug/Kg	☼		07/30/14 19:05	1
Dibromochloromethane	<5.8		5.8	1.0	ug/Kg	☼		07/30/14 19:05	1
1,1-Dichloroethane	<5.8		5.8	0.92	ug/Kg	☼		07/30/14 19:05	1
1,2-Dichloroethane	<5.8		5.8	0.86	ug/Kg	☼		07/30/14 19:05	1
1,1-Dichloroethene	<5.8		5.8	0.94	ug/Kg	☼		07/30/14 19:05	1
1,2-Dichloropropane	<5.8		5.8	0.88	ug/Kg	☼		07/30/14 19:05	1
1,3-Dichloropropene, Total	<5.8		5.8	0.76	ug/Kg	☼		07/30/14 19:05	1
Ethylbenzene	<5.8		5.8	1.2	ug/Kg	☼		07/30/14 19:05	1
2-Hexanone	<5.8		5.8	1.7	ug/Kg	☼		07/30/14 19:05	1
Methylene Chloride	<5.8		5.8	1.6	ug/Kg	☼		07/30/14 19:05	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		07/30/14 19:05	1
methyl isobutyl ketone	<5.8		5.8	1.5	ug/Kg	☼		07/30/14 19:05	1
Methyl tert-butyl ether	<5.8		5.8	0.96	ug/Kg	☼		07/30/14 19:05	1
Styrene	<5.8		5.8	0.76	ug/Kg	☼		07/30/14 19:05	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	1.2	ug/Kg	☼		07/30/14 19:05	1
Tetrachloroethene	<5.8		5.8	0.89	ug/Kg	☼		07/30/14 19:05	1
Toluene	<5.8		5.8	0.81	ug/Kg	☼		07/30/14 19:05	1
trans-1,2-Dichloroethene	<5.8 *		5.8	0.80	ug/Kg	☼		07/30/14 19:05	1
trans-1,3-Dichloropropene	<5.8		5.8	1.0	ug/Kg	☼		07/30/14 19:05	1
1,1,1-Trichloroethane	<5.8 *		5.8	0.87	ug/Kg	☼		07/30/14 19:05	1
1,1,2-Trichloroethane	<5.8		5.8	0.79	ug/Kg	☼		07/30/14 19:05	1
Trichloroethene	<5.8		5.8	0.96	ug/Kg	☼		07/30/14 19:05	1
Vinyl chloride	<5.8		5.8	1.2	ug/Kg	☼		07/30/14 19:05	1
Xylenes, Total	<12		12	0.53	ug/Kg	☼		07/30/14 19:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122		07/30/14 19:05	1
Dibromofluoromethane	110		75 - 120		07/30/14 19:05	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134		07/30/14 19:05	1
Toluene-d8 (Surr)	97		75 - 122		07/30/14 19:05	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	☼	08/07/14 07:44	08/08/14 04:11	1
1,2-Dichlorobenzene	<180		180	43	ug/Kg	☼	08/07/14 07:44	08/08/14 04:11	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	08/07/14 07:44	08/08/14 04:11	1
1,4-Dichlorobenzene	<180		180	47	ug/Kg	☼	08/07/14 07:44	08/08/14 04:11	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	08/07/14 07:44	08/08/14 04:11	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81266-1

**Client Sample ID: VL-5(0-4)-072514**

**Lab Sample ID: 500-81266-19**

**Date Collected: 07/25/14 13:25**

**Matrix: Solid**

**Date Received: 07/26/14 06:30**

**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	<360		360	83	ug/Kg	☼	08/07/14 07:44	08/08/14 04:11	1
2,4,6-Trichlorophenol	<360		360	120	ug/Kg	☼	08/07/14 07:44	08/08/14 04:11	1
2,4-Dichlorophenol	<360		360	86	ug/Kg	☼	08/07/14 07:44	08/08/14 04:11	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	08/07/14 07:44	08/08/14 04:11	1
2,4-Dinitrophenol	<730		730	640	ug/Kg	☼	08/07/14 07:44	08/08/14 04:11	1
2,4-Dinitrotoluene	<180		180	58	ug/Kg	☼	08/07/14 07:44	08/08/14 04:11	1
2,6-Dinitrotoluene	<180		180	71	ug/Kg	☼	08/07/14 07:44	08/08/14 04:11	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	08/07/14 07:44	08/08/14 04:11	1
2-Chlorophenol	<180		180	62	ug/Kg	☼	08/07/14 07:44	08/08/14 04:11	1
2-Methylnaphthalene	<36		36	6.7	ug/Kg	☼	08/07/14 07:44	08/08/14 04:11	1
2-Methylphenol	<180		180	58	ug/Kg	☼	08/07/14 07:44	08/08/14 04:11	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	08/07/14 07:44	08/08/14 04:11	1
2-Nitrophenol	<360		360	86	ug/Kg	☼	08/07/14 07:44	08/08/14 04:11	1
3 & 4 Methylphenol	<180		180	61	ug/Kg	☼	08/07/14 07:44	08/08/14 04:11	1
3,3'-Dichlorobenzidine	<180		180	51	ug/Kg	☼	08/07/14 07:44	08/08/14 04:11	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	08/07/14 07:44	08/08/14 04:11	1
4,6-Dinitro-2-methylphenol	<360		360	290	ug/Kg	☼	08/07/14 07:44	08/08/14 04:11	1
4-Bromophenyl phenyl ether	<180		180	48	ug/Kg	☼	08/07/14 07:44	08/08/14 04:11	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	08/07/14 07:44	08/08/14 04:11	1
4-Chloroaniline	<730		730	170	ug/Kg	☼	08/07/14 07:44	08/08/14 04:11	1
4-Chlorophenyl phenyl ether	<180		180	42	ug/Kg	☼	08/07/14 07:44	08/08/14 04:11	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	08/07/14 07:44	08/08/14 04:11	1
4-Nitrophenol	<730		730	350	ug/Kg	☼	08/07/14 07:44	08/08/14 04:11	1
Acenaphthene	<36		36	6.5	ug/Kg	☼	08/07/14 07:44	08/08/14 04:11	1
Acenaphthylene	<36		36	4.8	ug/Kg	☼	08/07/14 07:44	08/08/14 04:11	1
Anthracene	<36		36	6.1	ug/Kg	☼	08/07/14 07:44	08/08/14 04:11	1
Benzo[a]anthracene	<36		36	4.9	ug/Kg	☼	08/07/14 07:44	08/08/14 04:11	1
Benzo[a]pyrene	<36		36	7.0	ug/Kg	☼	08/07/14 07:44	08/08/14 04:11	1
Benzo[b]fluoranthene	<36		36	7.8	ug/Kg	☼	08/07/14 07:44	08/08/14 04:11	1
Benzo[g,h,i]perylene	<36		36	12	ug/Kg	☼	08/07/14 07:44	08/08/14 04:11	1
Benzo[k]fluoranthene	<36		36	11	ug/Kg	☼	08/07/14 07:44	08/08/14 04:11	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	08/07/14 07:44	08/08/14 04:11	1
Bis(2-chloroethyl)ether	<180		180	54	ug/Kg	☼	08/07/14 07:44	08/08/14 04:11	1
Bis(2-ethylhexyl) phthalate	<180		180	66	ug/Kg	☼	08/07/14 07:44	08/08/14 04:11	1
Butyl benzyl phthalate	<180		180	69	ug/Kg	☼	08/07/14 07:44	08/08/14 04:11	1
Carbazole	<180		180	94	ug/Kg	☼	08/07/14 07:44	08/08/14 04:11	1
Chrysene	<36		36	9.9	ug/Kg	☼	08/07/14 07:44	08/08/14 04:11	1
Dibenz(a,h)anthracene	<36		36	7.0	ug/Kg	☼	08/07/14 07:44	08/08/14 04:11	1
Dibenzofuran	<180		180	43	ug/Kg	☼	08/07/14 07:44	08/08/14 04:11	1
Diethyl phthalate	<180		180	62	ug/Kg	☼	08/07/14 07:44	08/08/14 04:11	1
Dimethyl phthalate	<180		180	47	ug/Kg	☼	08/07/14 07:44	08/08/14 04:11	1
Di-n-butyl phthalate	<180		180	55	ug/Kg	☼	08/07/14 07:44	08/08/14 04:11	1
Di-n-octyl phthalate	<180		180	59	ug/Kg	☼	08/07/14 07:44	08/08/14 04:11	1
Fluoranthene	<36		36	6.7	ug/Kg	☼	08/07/14 07:44	08/08/14 04:11	1
Fluorene	<36		36	5.1	ug/Kg	☼	08/07/14 07:44	08/08/14 04:11	1
Hexachlorobenzene	<73		73	8.4	ug/Kg	☼	08/07/14 07:44	08/08/14 04:11	1
Hexachlorobutadiene	<180		180	57	ug/Kg	☼	08/07/14 07:44	08/08/14 04:11	1
Hexachlorocyclopentadiene	<730		730	210	ug/Kg	☼	08/07/14 07:44	08/08/14 04:11	1
Hexachloroethane	<180		180	55	ug/Kg	☼	08/07/14 07:44	08/08/14 04:11	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81266-1

**Client Sample ID: VL-5(0-4)-072514**

**Lab Sample ID: 500-81266-19**

Date Collected: 07/25/14 13:25

Matrix: Solid

Date Received: 07/26/14 06:30

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	<36		36	9.4	ug/Kg	☼	08/07/14 07:44	08/08/14 04:11	1
Isophorone	<180		180	41	ug/Kg	☼	08/07/14 07:44	08/08/14 04:11	1
Naphthalene	<36		36	5.6	ug/Kg	☼	08/07/14 07:44	08/08/14 04:11	1
Nitrobenzene	<36		36	9.1	ug/Kg	☼	08/07/14 07:44	08/08/14 04:11	1
N-Nitrosodi-n-propylamine	<180		180	44	ug/Kg	☼	08/07/14 07:44	08/08/14 04:11	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	08/07/14 07:44	08/08/14 04:11	1
Pentachlorophenol	<730		730	580	ug/Kg	☼	08/07/14 07:44	08/08/14 04:11	1
Phenanthrene	<36		36	5.1	ug/Kg	☼	08/07/14 07:44	08/08/14 04:11	1
Phenol	<180		180	81	ug/Kg	☼	08/07/14 07:44	08/08/14 04:11	1
Pyrene	<36		36	7.2	ug/Kg	☼	08/07/14 07:44	08/08/14 04:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	80		35 - 137				08/07/14 07:44	08/08/14 04:11	1
2-Fluorobiphenyl	54		25 - 119				08/07/14 07:44	08/08/14 04:11	1
2-Fluorophenol	66		25 - 110				08/07/14 07:44	08/08/14 04:11	1
Nitrobenzene-d5	54		25 - 115				08/07/14 07:44	08/08/14 04:11	1
Phenol-d5	71		31 - 110				08/07/14 07:44	08/08/14 04:11	1
Terphenyl-d14	102		36 - 134				08/07/14 07:44	08/08/14 04:11	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		08/05/14 09:30	08/06/14 00:54	1
<b>Barium</b>	<b>0.30</b>	<b>J</b>	0.50	0.050	mg/L		08/05/14 09:30	08/06/14 00:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/05/14 09:30	08/06/14 00:54	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/05/14 09:30	08/06/14 00:54	1
Chromium	<0.025		0.025	0.010	mg/L		08/05/14 09:30	08/06/14 00:54	1
Cobalt	<0.025		0.025	0.010	mg/L		08/05/14 09:30	08/06/14 00:54	1
Copper	<0.025		0.025	0.010	mg/L		08/05/14 09:30	08/06/14 00:54	1
Iron	<0.20		0.20	0.20	mg/L		08/05/14 09:30	08/06/14 00:54	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/05/14 09:30	08/06/14 00:54	1
<b>Manganese</b>	<b>0.43</b>		0.025	0.010	mg/L		08/05/14 09:30	08/06/14 00:54	1
Nickel	<0.025		0.025	0.010	mg/L		08/05/14 09:30	08/06/14 00:54	1
<b>Selenium</b>	<b>0.024</b>	<b>J B</b>	0.050	0.010	mg/L		08/05/14 09:30	08/06/14 00:54	1
Silver	<0.025		0.025	0.010	mg/L		08/05/14 09:30	08/06/14 00:54	1
Zinc	<0.10		0.10	0.020	mg/L		08/05/14 09:30	08/06/14 00:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.049</b>	<b>J</b>	0.050	0.010	mg/L		08/05/14 10:30	08/06/14 06:44	1
<b>Barium</b>	<b>0.27</b>	<b>J</b>	0.50	0.050	mg/L		08/05/14 10:30	08/06/14 06:44	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/05/14 10:30	08/06/14 06:44	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/05/14 10:30	08/06/14 06:44	1
<b>Chromium</b>	<b>0.091</b>		0.025	0.010	mg/L		08/05/14 10:30	08/06/14 06:44	1
<b>Cobalt</b>	<b>0.026</b>		0.025	0.010	mg/L		08/05/14 10:30	08/06/14 06:44	1
<b>Copper</b>	<b>0.14</b>		0.025	0.010	mg/L		08/05/14 10:30	08/06/14 06:44	1
<b>Iron</b>	<b>100</b>		0.20	0.20	mg/L		08/05/14 10:30	08/06/14 06:44	1
<b>Lead</b>	<b>0.045</b>		0.0075	0.0075	mg/L		08/05/14 10:30	08/06/14 06:44	1
<b>Manganese</b>	<b>0.41</b>		0.025	0.010	mg/L		08/05/14 10:30	08/06/14 06:44	1
<b>Nickel</b>	<b>0.10</b>		0.025	0.010	mg/L		08/05/14 10:30	08/06/14 06:44	1
Selenium	<0.050		0.050	0.010	mg/L		08/05/14 10:30	08/06/14 06:44	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81266-1

**Client Sample ID: VL-5(0-4)-072514**

**Lab Sample ID: 500-81266-19**

Date Collected: 07/25/14 13:25

Matrix: Solid

Date Received: 07/26/14 06:30

**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		08/05/14 10:30	08/06/14 06:44	1
Zinc	0.24	B	0.10	0.020	mg/L		08/05/14 10:30	08/06/14 06:44	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.43	mg/Kg	☼	08/01/14 17:50	08/04/14 23:54	1
Arsenic	6.5		0.54	0.11	mg/Kg	☼	08/01/14 17:50	08/04/14 23:54	1
Barium	37		0.54	0.057	mg/Kg	☼	08/01/14 17:50	08/04/14 23:54	1
Beryllium	0.60		0.21	0.043	mg/Kg	☼	08/01/14 17:50	08/04/14 23:54	1
Cadmium	1.2		0.11	0.014	mg/Kg	☼	08/01/14 17:50	08/04/14 23:54	1
Calcium	74000		540	150	mg/Kg	☼	08/01/14 17:50	08/05/14 22:02	50
Chromium	17	B	0.54	0.062	mg/Kg	☼	08/01/14 17:50	08/04/14 23:54	1
Cobalt	11		0.27	0.054	mg/Kg	☼	08/01/14 17:50	08/04/14 23:54	1
Copper	27		0.54	0.11	mg/Kg	☼	08/01/14 17:50	08/04/14 23:54	1
Iron	19000		11	4.4	mg/Kg	☼	08/01/14 17:50	08/04/14 23:54	1
Lead	12	B	0.27	0.080	mg/Kg	☼	08/01/14 17:50	08/04/14 23:54	1
Magnesium	33000		5.4	1.1	mg/Kg	☼	08/01/14 17:50	08/04/14 23:54	1
Manganese	500		0.54	0.11	mg/Kg	☼	08/01/14 17:50	08/04/14 23:54	1
Nickel	27		0.54	0.11	mg/Kg	☼	08/01/14 17:50	08/04/14 23:54	1
Potassium	2200		27	1.6	mg/Kg	☼	08/01/14 17:50	08/04/14 23:54	1
Selenium	<0.54		0.54	0.19	mg/Kg	☼	08/01/14 17:50	08/04/14 23:54	1
Silver	0.038	J	0.27	0.019	mg/Kg	☼	08/01/14 17:50	08/04/14 23:54	1
Sodium	3900		2700	360	mg/Kg	☼	08/01/14 17:50	08/05/14 22:02	50
Thallium	0.68		0.54	0.23	mg/Kg	☼	08/01/14 17:50	08/04/14 23:54	1
Vanadium	22	B	0.27	0.040	mg/Kg	☼	08/01/14 17:50	08/04/14 23:54	1
Zinc	46		1.1	0.22	mg/Kg	☼	08/01/14 17:50	08/04/14 23:54	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		08/05/14 12:00	08/06/14 09:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.23		0.20	0.20	ug/L		08/05/14 12:00	08/06/14 11:40	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	24		17	6.5	ug/Kg	☼	08/01/14 12:00	08/04/14 13:20	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.82		0.200	0.200	SU			08/01/14 14:45	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81266-1

**Client Sample ID: VL-4(0-6)-072514**

**Lab Sample ID: 500-81266-20**

Date Collected: 07/25/14 13:50

Matrix: Solid

Date Received: 07/26/14 06:30

Percent Solids: 70.8

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>270</b>		7.1	3.1	ug/Kg	☼		07/30/14 19:28	1
Benzene	<7.1		7.1	0.97	ug/Kg	☼		07/30/14 19:28	1
Bromodichloromethane	<7.1		7.1	1.2	ug/Kg	☼		07/30/14 19:28	1
Bromoform	<7.1		7.1	1.6	ug/Kg	☼		07/30/14 19:28	1
Bromomethane	<7.1		7.1	2.1	ug/Kg	☼		07/30/14 19:28	1
Carbon disulfide	<7.1 *		7.1	1.1	ug/Kg	☼		07/30/14 19:28	1
Carbon tetrachloride	<7.1		7.1	1.3	ug/Kg	☼		07/30/14 19:28	1
Chlorobenzene	<7.1		7.1	0.72	ug/Kg	☼		07/30/14 19:28	1
Chloroethane	<7.1		7.1	1.9	ug/Kg	☼		07/30/14 19:28	1
Chloroform	<7.1		7.1	0.81	ug/Kg	☼		07/30/14 19:28	1
Chloromethane	<7.1		7.1	1.5	ug/Kg	☼		07/30/14 19:28	1
cis-1,2-Dichloroethene	<7.1		7.1	1.0	ug/Kg	☼		07/30/14 19:28	1
cis-1,3-Dichloropropene	<7.1		7.1	0.93	ug/Kg	☼		07/30/14 19:28	1
Dibromochloromethane	<7.1		7.1	1.2	ug/Kg	☼		07/30/14 19:28	1
1,1-Dichloroethane	<7.1		7.1	1.1	ug/Kg	☼		07/30/14 19:28	1
1,2-Dichloroethane	<7.1		7.1	1.0	ug/Kg	☼		07/30/14 19:28	1
1,1,1-Dichloroethene	<7.1		7.1	1.1	ug/Kg	☼		07/30/14 19:28	1
1,2-Dichloropropane	<7.1		7.1	1.1	ug/Kg	☼		07/30/14 19:28	1
1,3-Dichloropropene, Total	<7.1		7.1	0.93	ug/Kg	☼		07/30/14 19:28	1
Ethylbenzene	<7.1		7.1	1.4	ug/Kg	☼		07/30/14 19:28	1
2-Hexanone	<7.1		7.1	2.0	ug/Kg	☼		07/30/14 19:28	1
Methylene Chloride	<7.1		7.1	1.9	ug/Kg	☼		07/30/14 19:28	1
<b>Methyl Ethyl Ketone</b>	<b>53</b>		7.1	2.6	ug/Kg	☼		07/30/14 19:28	1
methyl isobutyl ketone	<7.1		7.1	1.9	ug/Kg	☼		07/30/14 19:28	1
Methyl tert-butyl ether	<7.1		7.1	1.2	ug/Kg	☼		07/30/14 19:28	1
Styrene	<7.1		7.1	0.93	ug/Kg	☼		07/30/14 19:28	1
1,1,1,2-Tetrachloroethane	<7.1		7.1	1.4	ug/Kg	☼		07/30/14 19:28	1
Tetrachloroethene	<7.1		7.1	1.1	ug/Kg	☼		07/30/14 19:28	1
Toluene	<7.1		7.1	0.99	ug/Kg	☼		07/30/14 19:28	1
trans-1,2-Dichloroethene	<7.1 *		7.1	0.97	ug/Kg	☼		07/30/14 19:28	1
trans-1,3-Dichloropropene	<7.1		7.1	1.3	ug/Kg	☼		07/30/14 19:28	1
1,1,1-Trichloroethane	<7.1 *		7.1	1.1	ug/Kg	☼		07/30/14 19:28	1
1,1,2-Trichloroethane	<7.1		7.1	0.96	ug/Kg	☼		07/30/14 19:28	1
Trichloroethene	<7.1		7.1	1.2	ug/Kg	☼		07/30/14 19:28	1
Vinyl chloride	<7.1		7.1	1.5	ug/Kg	☼		07/30/14 19:28	1
Xylenes, Total	<14		14	0.64	ug/Kg	☼		07/30/14 19:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 122		07/30/14 19:28	1
Dibromofluoromethane	108		75 - 120		07/30/14 19:28	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134		07/30/14 19:28	1
Toluene-d8 (Surr)	96		75 - 122		07/30/14 19:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<230		230	49	ug/Kg	☼	08/07/14 07:44	08/08/14 07:46	1
1,2-Dichlorobenzene	<230		230	54	ug/Kg	☼	08/07/14 07:44	08/08/14 07:46	1
1,3-Dichlorobenzene	<230		230	51	ug/Kg	☼	08/07/14 07:44	08/08/14 07:46	1
1,4-Dichlorobenzene	<230		230	58	ug/Kg	☼	08/07/14 07:44	08/08/14 07:46	1
2,2'-oxybis[1-chloropropane]	<230		230	52	ug/Kg	☼	08/07/14 07:44	08/08/14 07:46	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81266-1

**Client Sample ID: VL-4(0-6)-072514**

**Lab Sample ID: 500-81266-20**

**Date Collected: 07/25/14 13:50**

**Matrix: Solid**

**Date Received: 07/26/14 06:30**

**Percent Solids: 70.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<450		450	100	ug/Kg	☼	08/07/14 07:44	08/08/14 07:46	1
2,4,6-Trichlorophenol	<450		450	160	ug/Kg	☼	08/07/14 07:44	08/08/14 07:46	1
2,4-Dichlorophenol	<450		450	110	ug/Kg	☼	08/07/14 07:44	08/08/14 07:46	1
2,4-Dimethylphenol	<450		450	170	ug/Kg	☼	08/07/14 07:44	08/08/14 07:46	1
2,4-Dinitrophenol	<910		910	800	ug/Kg	☼	08/07/14 07:44	08/08/14 07:46	1
2,4-Dinitrotoluene	<230		230	72	ug/Kg	☼	08/07/14 07:44	08/08/14 07:46	1
2,6-Dinitrotoluene	<230		230	89	ug/Kg	☼	08/07/14 07:44	08/08/14 07:46	1
2-Chloronaphthalene	<230		230	50	ug/Kg	☼	08/07/14 07:44	08/08/14 07:46	1
2-Chlorophenol	<230		230	77	ug/Kg	☼	08/07/14 07:44	08/08/14 07:46	1
2-Methylnaphthalene	<45		45	8.3	ug/Kg	☼	08/07/14 07:44	08/08/14 07:46	1
2-Methylphenol	<230		230	73	ug/Kg	☼	08/07/14 07:44	08/08/14 07:46	1
2-Nitroaniline	<230		230	61	ug/Kg	☼	08/07/14 07:44	08/08/14 07:46	1
2-Nitrophenol	<450		450	110	ug/Kg	☼	08/07/14 07:44	08/08/14 07:46	1
3 & 4 Methylphenol	<230		230	75	ug/Kg	☼	08/07/14 07:44	08/08/14 07:46	1
3,3'-Dichlorobenzidine	<230		230	63	ug/Kg	☼	08/07/14 07:44	08/08/14 07:46	1
3-Nitroaniline	<450		450	140	ug/Kg	☼	08/07/14 07:44	08/08/14 07:46	1
4,6-Dinitro-2-methylphenol	<450		450	360	ug/Kg	☼	08/07/14 07:44	08/08/14 07:46	1
4-Bromophenyl phenyl ether	<230		230	60	ug/Kg	☼	08/07/14 07:44	08/08/14 07:46	1
4-Chloro-3-methylphenol	<450		450	150	ug/Kg	☼	08/07/14 07:44	08/08/14 07:46	1
4-Chloroaniline	<910		910	210	ug/Kg	☼	08/07/14 07:44	08/08/14 07:46	1
4-Chlorophenyl phenyl ether	<230		230	53	ug/Kg	☼	08/07/14 07:44	08/08/14 07:46	1
4-Nitroaniline	<450		450	190	ug/Kg	☼	08/07/14 07:44	08/08/14 07:46	1
4-Nitrophenol	<910		910	430	ug/Kg	☼	08/07/14 07:44	08/08/14 07:46	1
Acenaphthene	<45		45	8.1	ug/Kg	☼	08/07/14 07:44	08/08/14 07:46	1
Acenaphthylene	<45		45	6.0	ug/Kg	☼	08/07/14 07:44	08/08/14 07:46	1
Anthracene	<45		45	7.6	ug/Kg	☼	08/07/14 07:44	08/08/14 07:46	1
<b>Benzo[a]anthracene</b>	<b>14 J</b>		45	6.1	ug/Kg	☼	08/07/14 07:44	08/08/14 07:46	1
<b>Benzo[a]pyrene</b>	<b>19 J</b>		45	8.8	ug/Kg	☼	08/07/14 07:44	08/08/14 07:46	1
<b>Benzo[b]fluoranthene</b>	<b>31 J</b>		45	9.8	ug/Kg	☼	08/07/14 07:44	08/08/14 07:46	1
<b>Benzo[g,h,i]perylene</b>	<b>20 J</b>		45	15	ug/Kg	☼	08/07/14 07:44	08/08/14 07:46	1
Benzo[k]fluoranthene	<45		45	13	ug/Kg	☼	08/07/14 07:44	08/08/14 07:46	1
Bis(2-chloroethoxy)methane	<230		230	46	ug/Kg	☼	08/07/14 07:44	08/08/14 07:46	1
Bis(2-chloroethyl)ether	<230		230	68	ug/Kg	☼	08/07/14 07:44	08/08/14 07:46	1
Bis(2-ethylhexyl) phthalate	<230		230	83	ug/Kg	☼	08/07/14 07:44	08/08/14 07:46	1
Butyl benzyl phthalate	<230		230	86	ug/Kg	☼	08/07/14 07:44	08/08/14 07:46	1
Carbazole	<230		230	120	ug/Kg	☼	08/07/14 07:44	08/08/14 07:46	1
<b>Chrysene</b>	<b>15 J</b>		45	12	ug/Kg	☼	08/07/14 07:44	08/08/14 07:46	1
Dibenz(a,h)anthracene	<45		45	8.7	ug/Kg	☼	08/07/14 07:44	08/08/14 07:46	1
Dibenzofuran	<230		230	53	ug/Kg	☼	08/07/14 07:44	08/08/14 07:46	1
Diethyl phthalate	<230		230	77	ug/Kg	☼	08/07/14 07:44	08/08/14 07:46	1
Dimethyl phthalate	<230		230	59	ug/Kg	☼	08/07/14 07:44	08/08/14 07:46	1
Di-n-butyl phthalate	<230		230	69	ug/Kg	☼	08/07/14 07:44	08/08/14 07:46	1
Di-n-octyl phthalate	<230		230	74	ug/Kg	☼	08/07/14 07:44	08/08/14 07:46	1
<b>Fluoranthene</b>	<b>18 J</b>		45	8.4	ug/Kg	☼	08/07/14 07:44	08/08/14 07:46	1
Fluorene	<45		45	6.4	ug/Kg	☼	08/07/14 07:44	08/08/14 07:46	1
Hexachlorobenzene	<91		91	10	ug/Kg	☼	08/07/14 07:44	08/08/14 07:46	1
Hexachlorobutadiene	<230		230	71	ug/Kg	☼	08/07/14 07:44	08/08/14 07:46	1
Hexachlorocyclopentadiene	<910		910	260	ug/Kg	☼	08/07/14 07:44	08/08/14 07:46	1
Hexachloroethane	<230		230	69	ug/Kg	☼	08/07/14 07:44	08/08/14 07:46	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81266-1

**Client Sample ID: VL-4(0-6)-072514**

**Lab Sample ID: 500-81266-20**

Date Collected: 07/25/14 13:50

Matrix: Solid

Date Received: 07/26/14 06:30

Percent Solids: 70.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Indeno[1,2,3-cd]pyrene</b>	<b>18</b>	<b>J</b>	45	12	ug/Kg	☼	08/07/14 07:44	08/08/14 07:46	1
Isophorone	<230		230	51	ug/Kg	☼	08/07/14 07:44	08/08/14 07:46	1
Naphthalene	<45		45	7.0	ug/Kg	☼	08/07/14 07:44	08/08/14 07:46	1
Nitrobenzene	<45		45	11	ug/Kg	☼	08/07/14 07:44	08/08/14 07:46	1
N-Nitrosodi-n-propylamine	<230		230	55	ug/Kg	☼	08/07/14 07:44	08/08/14 07:46	1
N-Nitrosodiphenylamine	<230		230	53	ug/Kg	☼	08/07/14 07:44	08/08/14 07:46	1
Pentachlorophenol	<910		910	730	ug/Kg	☼	08/07/14 07:44	08/08/14 07:46	1
<b>Phenanthrene</b>	<b>16</b>	<b>J</b>	45	6.3	ug/Kg	☼	08/07/14 07:44	08/08/14 07:46	1
Phenol	<230		230	100	ug/Kg	☼	08/07/14 07:44	08/08/14 07:46	1
<b>Pyrene</b>	<b>58</b>		45	9.0	ug/Kg	☼	08/07/14 07:44	08/08/14 07:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	95		35 - 137				08/07/14 07:44	08/08/14 07:46	1
2-Fluorobiphenyl	68		25 - 119				08/07/14 07:44	08/08/14 07:46	1
2-Fluorophenol	69		25 - 110				08/07/14 07:44	08/08/14 07:46	1
Nitrobenzene-d5	61		25 - 115				08/07/14 07:44	08/08/14 07:46	1
Phenol-d5	72		31 - 110				08/07/14 07:44	08/08/14 07:46	1
Terphenyl-d14	209	X	36 - 134				08/07/14 07:44	08/08/14 07:46	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		08/05/14 09:30	08/06/14 01:15	1
<b>Barium</b>	<b>0.36</b>	<b>J</b>	0.50	0.050	mg/L		08/05/14 09:30	08/06/14 01:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/05/14 09:30	08/06/14 01:15	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/05/14 09:30	08/06/14 01:15	1
Chromium	<0.025		0.025	0.010	mg/L		08/05/14 09:30	08/06/14 01:15	1
Cobalt	<0.025		0.025	0.010	mg/L		08/05/14 09:30	08/06/14 01:15	1
<b>Copper</b>	<b>0.021</b>	<b>J</b>	0.025	0.010	mg/L		08/05/14 09:30	08/06/14 01:15	1
Iron	<0.20		0.20	0.20	mg/L		08/05/14 09:30	08/06/14 01:15	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/05/14 09:30	08/06/14 01:15	1
<b>Manganese</b>	<b>3.9</b>		0.025	0.010	mg/L		08/05/14 09:30	08/06/14 01:15	1
Nickel	<0.025		0.025	0.010	mg/L		08/05/14 09:30	08/06/14 01:15	1
<b>Selenium</b>	<b>0.020</b>	<b>J B</b>	0.050	0.010	mg/L		08/05/14 09:30	08/06/14 01:15	1
Silver	<0.025		0.025	0.010	mg/L		08/05/14 09:30	08/06/14 01:15	1
<b>Zinc</b>	<b>0.032</b>	<b>J</b>	0.10	0.020	mg/L		08/05/14 09:30	08/06/14 01:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.031</b>	<b>J</b>	0.050	0.010	mg/L		08/05/14 10:30	08/06/14 06:50	1
<b>Barium</b>	<b>0.25</b>	<b>J</b>	0.50	0.050	mg/L		08/05/14 10:30	08/06/14 06:50	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/05/14 10:30	08/06/14 06:50	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/05/14 10:30	08/06/14 06:50	1
<b>Chromium</b>	<b>0.067</b>		0.025	0.010	mg/L		08/05/14 10:30	08/06/14 06:50	1
<b>Cobalt</b>	<b>0.030</b>		0.025	0.010	mg/L		08/05/14 10:30	08/06/14 06:50	1
<b>Copper</b>	<b>0.13</b>		0.025	0.010	mg/L		08/05/14 10:30	08/06/14 06:50	1
<b>Iron</b>	<b>76</b>		0.20	0.20	mg/L		08/05/14 10:30	08/06/14 06:50	1
<b>Lead</b>	<b>0.093</b>		0.0075	0.0075	mg/L		08/05/14 10:30	08/06/14 06:50	1
<b>Manganese</b>	<b>0.97</b>		0.025	0.010	mg/L		08/05/14 10:30	08/06/14 06:50	1
<b>Nickel</b>	<b>0.076</b>		0.025	0.010	mg/L		08/05/14 10:30	08/06/14 06:50	1
Selenium	<0.050		0.050	0.010	mg/L		08/05/14 10:30	08/06/14 06:50	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81266-1

**Client Sample ID: VL-4(0-6)-072514**

**Lab Sample ID: 500-81266-20**

Date Collected: 07/25/14 13:50

Matrix: Solid

Date Received: 07/26/14 06:30

**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		08/05/14 10:30	08/06/14 06:50	1
Zinc	0.24	B	0.10	0.020	mg/L		08/05/14 10:30	08/06/14 06:50	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.3		1.3	0.52	mg/Kg	☼	08/01/14 17:50	08/05/14 00:01	1
Arsenic	2.8		0.65	0.13	mg/Kg	☼	08/01/14 17:50	08/05/14 00:01	1
Barium	28		0.65	0.069	mg/Kg	☼	08/01/14 17:50	08/05/14 00:01	1
Beryllium	0.29		0.26	0.052	mg/Kg	☼	08/01/14 17:50	08/05/14 00:01	1
Cadmium	0.68		0.13	0.016	mg/Kg	☼	08/01/14 17:50	08/05/14 00:01	1
Calcium	58000		13	3.5	mg/Kg	☼	08/01/14 17:50	08/05/14 00:01	1
Chromium	8.2	B	0.65	0.075	mg/Kg	☼	08/01/14 17:50	08/05/14 00:01	1
Cobalt	4.7		0.32	0.065	mg/Kg	☼	08/01/14 17:50	08/05/14 00:01	1
Copper	12		0.65	0.13	mg/Kg	☼	08/01/14 17:50	08/05/14 00:01	1
Iron	13000		13	5.3	mg/Kg	☼	08/01/14 17:50	08/05/14 00:01	1
Lead	6.2	B	0.32	0.097	mg/Kg	☼	08/01/14 17:50	08/05/14 00:01	1
Magnesium	19000		6.5	1.3	mg/Kg	☼	08/01/14 17:50	08/05/14 00:01	1
Manganese	290		0.65	0.13	mg/Kg	☼	08/01/14 17:50	08/05/14 00:01	1
Nickel	11		0.65	0.13	mg/Kg	☼	08/01/14 17:50	08/05/14 00:01	1
Potassium	950		32	2.0	mg/Kg	☼	08/01/14 17:50	08/05/14 00:01	1
Selenium	0.25	J	0.65	0.23	mg/Kg	☼	08/01/14 17:50	08/05/14 00:01	1
Silver	0.051	J	0.32	0.024	mg/Kg	☼	08/01/14 17:50	08/05/14 00:01	1
Sodium	7100		3200	440	mg/Kg	☼	08/01/14 17:50	08/05/14 22:09	50
Thallium	0.50	J	0.65	0.27	mg/Kg	☼	08/01/14 17:50	08/05/14 00:01	1
Vanadium	10	B	0.32	0.048	mg/Kg	☼	08/01/14 17:50	08/05/14 00:01	1
Zinc	23		1.3	0.26	mg/Kg	☼	08/01/14 17:50	08/05/14 00:01	1

**Method: 7470A - Mercury (CVAA) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		08/05/14 12:00	08/06/14 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		08/05/14 12:00	08/06/14 11:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0023		0.0020	0.00080	ug/Kg	☼	08/01/14 12:00	08/04/14 13:26	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.25		0.200	0.200	SU			08/01/14 14:45	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81266-1

## 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.
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
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.
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 - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81266-1

## 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 TESTING

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

Report To (optional)  
Contact: S. Babusukumar  
Company: Weston Solutions Inc.  
Address: 300 Plaza Circle, Ste 202  
Address: Mundelein, IL 60060  
Phone: 224-864-7250  
Fax: 224-864-7234  
E-Mail:

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

## Chain of Custody Record

Lab Job #: 500-81266  
Chain of Custody Number: \_\_\_\_\_  
Page 2 of \_\_\_\_\_  
Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter		Project Location/State		Lab Project #		Sampler		Lab PM		Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other
<u>Weston Solutions Inc</u>				<u>8 8 8 8 8</u>				<u>Lake County, IL</u>				<u>M. Dohany-Skubic</u>		<u>D. Wright</u>		
<u>1 DOT 046 - IL 132 (Grand Ave)</u>																
Lab ID	M/S/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs	SUOCs	TOTAL METALS	TCUR/SPUR METALS	PH	Comments				
11		PA-2 (0-6)-072514DP	7-25-14	1110	2	S	X	X	X	X	X					
12		PA-1 (0-6)-072514	7-25-14	1130	2	S	X	X	X	X	X					
13		R5-1 (0-4)-072514	7-25-14	1155	2	S	X	X	X	X	X					
14		R5-1 (4-10)-072514	7-25-14	1200	2	S	X	X	X	X	X					
15		FS-1 (0-7)-072514	7-25-14	1220	2	S	X	X	X	X	X					
16		VL-8 (0-4)-072514	7-25-14	1240	2	S	X	X	X	X	X					
17		VL-7 (0-4)-072514	7-25-14	1257	2	S	X	X	X	X	X					
18		VL-6 (0-4)-072514	7-25-14	1310	2	S	X	X	X	X	X					
19		VL-5 (0-4)-072514	7-25-14	1325	2	S	X	X	X	X	X					
20		VL-4 (0-6)-072514	7-25-14	1350	2	S	X	X	X	X	X					

Turnaround Time Required (Business Days)

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

Requested Due Date

Sample Disposal

Return to Client

Disposal by Lab

Archive for \_\_\_\_\_ Months

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

Relinquished By <u>[Signature]</u> Company <u>Weston</u>	Date <u>7-25-14</u>	Time <u>1526</u>	Received By <u>[Signature]</u> Company <u>TA</u>	Date <u>7/25/14</u>	Time <u>1526</u>
Relinquished By <u>[Signature]</u> Company <u>TA</u>	Date <u>7/25/14</u>	Time <u>1650</u>	Received By <u>[Signature]</u> Company <u>TA</u>	Date <u>7/26/14</u>	Time <u>0630</u>
Relinquished By <u>[Signature]</u> Company <u>TA</u>	Date <u>7-25-14</u>	Time <u>1835</u>	Received By <u>[Signature]</u> Company <u>TA</u>	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: 500-81267-1

Client Project/Site: IDOT - IL Rt. 132 - WO 046

For:

Weston Solutions, Inc.

300 Plaza Circle, Suite 202

Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar



Authorized for release by:

8/11/2014 11:18:32 AM

Richard Wright, Senior Project Manager

(708)534-5200

[richard.wright@testamericainc.com](mailto:richard.wright@testamericainc.com)



### LINKS

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

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

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# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81267-1

**Client Sample ID: VL-4(6-12)-072514**

**Lab Sample ID: 500-81267-1**

**Date Collected: 07/25/14 14:00**

**Matrix: Solid**

**Date Received: 07/26/14 06:30**

**Percent Solids: 72.8**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	50		6.9	3.0	ug/Kg	☼		07/29/14 23:04	1
Benzene	<6.9		6.9	0.94	ug/Kg	☼		07/29/14 23:04	1
Bromodichloromethane	<6.9		6.9	1.2	ug/Kg	☼		07/29/14 23:04	1
Bromoform	<6.9		6.9	1.6	ug/Kg	☼		07/29/14 23:04	1
Bromomethane	<6.9		6.9	2.1	ug/Kg	☼		07/29/14 23:04	1
Carbon disulfide	<6.9		6.9	1.0	ug/Kg	☼		07/29/14 23:04	1
Carbon tetrachloride	<6.9		6.9	1.2	ug/Kg	☼		07/29/14 23:04	1
Chlorobenzene	<6.9		6.9	0.70	ug/Kg	☼		07/29/14 23:04	1
Chloroethane	<6.9		6.9	1.9	ug/Kg	☼		07/29/14 23:04	1
Chloroform	<6.9		6.9	0.79	ug/Kg	☼		07/29/14 23:04	1
Chloromethane	<6.9		6.9	1.4	ug/Kg	☼		07/29/14 23:04	1
cis-1,2-Dichloroethene	<6.9		6.9	0.97	ug/Kg	☼		07/29/14 23:04	1
cis-1,3-Dichloropropene	<6.9		6.9	0.90	ug/Kg	☼		07/29/14 23:04	1
Dibromochloromethane	<6.9		6.9	1.2	ug/Kg	☼		07/29/14 23:04	1
1,1-Dichloroethane	<6.9		6.9	1.1	ug/Kg	☼		07/29/14 23:04	1
1,2-Dichloroethane	<6.9		6.9	1.0	ug/Kg	☼		07/29/14 23:04	1
1,1-Dichloroethene	<6.9		6.9	1.1	ug/Kg	☼		07/29/14 23:04	1
1,2-Dichloropropane	<6.9		6.9	1.0	ug/Kg	☼		07/29/14 23:04	1
1,3-Dichloropropene, Total	<6.9		6.9	0.90	ug/Kg	☼		07/29/14 23:04	1
Ethylbenzene	<6.9		6.9	1.4	ug/Kg	☼		07/29/14 23:04	1
2-Hexanone	<6.9		6.9	2.0	ug/Kg	☼		07/29/14 23:04	1
Methylene Chloride	<6.9		6.9	1.9	ug/Kg	☼		07/29/14 23:04	1
Methyl Ethyl Ketone	<6.9		6.9	2.5	ug/Kg	☼		07/29/14 23:04	1
methyl isobutyl ketone	<6.9		6.9	1.8	ug/Kg	☼		07/29/14 23:04	1
Methyl tert-butyl ether	<6.9		6.9	1.1	ug/Kg	☼		07/29/14 23:04	1
Styrene	<6.9		6.9	0.90	ug/Kg	☼		07/29/14 23:04	1
1,1,2,2-Tetrachloroethane	<6.9		6.9	1.4	ug/Kg	☼		07/29/14 23:04	1
Tetrachloroethene	<6.9		6.9	1.0	ug/Kg	☼		07/29/14 23:04	1
Toluene	<6.9		6.9	0.96	ug/Kg	☼		07/29/14 23:04	1
trans-1,2-Dichloroethene	<6.9		6.9	0.94	ug/Kg	☼		07/29/14 23:04	1
trans-1,3-Dichloropropene	<6.9		6.9	1.2	ug/Kg	☼		07/29/14 23:04	1
1,1,1-Trichloroethane	<6.9		6.9	1.0	ug/Kg	☼		07/29/14 23:04	1
1,1,2-Trichloroethane	<6.9		6.9	0.94	ug/Kg	☼		07/29/14 23:04	1
Trichloroethene	<6.9		6.9	1.1	ug/Kg	☼		07/29/14 23:04	1
Vinyl chloride	<6.9		6.9	1.4	ug/Kg	☼		07/29/14 23:04	1
Xylenes, Total	<14		14	0.62	ug/Kg	☼		07/29/14 23:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 122		07/29/14 23:04	1
Dibromofluoromethane	105		75 - 120		07/29/14 23:04	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134		07/29/14 23:04	1
Toluene-d8 (Surr)	99		75 - 122		07/29/14 23:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<220		220	48	ug/Kg	☼	08/07/14 17:29	08/08/14 18:02	1
1,2-Dichlorobenzene	<220		220	53	ug/Kg	☼	08/07/14 17:29	08/08/14 18:02	1
1,3-Dichlorobenzene	<220		220	50	ug/Kg	☼	08/07/14 17:29	08/08/14 18:02	1
1,4-Dichlorobenzene	<220		220	57	ug/Kg	☼	08/07/14 17:29	08/08/14 18:02	1
2,2'-oxybis[1-chloropropane]	<220		220	51	ug/Kg	☼	08/07/14 17:29	08/08/14 18:02	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81267-1

**Client Sample ID: VL-4(6-12)-072514**

**Lab Sample ID: 500-81267-1**

**Date Collected: 07/25/14 14:00**

**Matrix: Solid**

**Date Received: 07/26/14 06:30**

**Percent Solids: 72.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<440		440	100	ug/Kg	☼	08/07/14 17:29	08/08/14 18:02	1
2,4,6-Trichlorophenol	<440		440	150	ug/Kg	☼	08/07/14 17:29	08/08/14 18:02	1
2,4-Dichlorophenol	<440		440	110	ug/Kg	☼	08/07/14 17:29	08/08/14 18:02	1
2,4-Dimethylphenol	<440		440	170	ug/Kg	☼	08/07/14 17:29	08/08/14 18:02	1
2,4-Dinitrophenol	<900	*	900	780	ug/Kg	☼	08/07/14 17:29	08/08/14 18:02	1
2,4-Dinitrotoluene	<220		220	71	ug/Kg	☼	08/07/14 17:29	08/08/14 18:02	1
2,6-Dinitrotoluene	<220		220	87	ug/Kg	☼	08/07/14 17:29	08/08/14 18:02	1
2-Chloronaphthalene	<220		220	49	ug/Kg	☼	08/07/14 17:29	08/08/14 18:02	1
2-Chlorophenol	<220		220	76	ug/Kg	☼	08/07/14 17:29	08/08/14 18:02	1
2-Methylnaphthalene	<44		44	8.2	ug/Kg	☼	08/07/14 17:29	08/08/14 18:02	1
2-Methylphenol	<220		220	71	ug/Kg	☼	08/07/14 17:29	08/08/14 18:02	1
2-Nitroaniline	<220		220	60	ug/Kg	☼	08/07/14 17:29	08/08/14 18:02	1
2-Nitrophenol	<440		440	100	ug/Kg	☼	08/07/14 17:29	08/08/14 18:02	1
3 & 4 Methylphenol	<220		220	74	ug/Kg	☼	08/07/14 17:29	08/08/14 18:02	1
3,3'-Dichlorobenzidine	<220		220	62	ug/Kg	☼	08/07/14 17:29	08/08/14 18:02	1
3-Nitroaniline	<440		440	140	ug/Kg	☼	08/07/14 17:29	08/08/14 18:02	1
4,6-Dinitro-2-methylphenol	<440	*	440	360	ug/Kg	☼	08/07/14 17:29	08/08/14 18:02	1
4-Bromophenyl phenyl ether	<220		220	59	ug/Kg	☼	08/07/14 17:29	08/08/14 18:02	1
4-Chloro-3-methylphenol	<440		440	150	ug/Kg	☼	08/07/14 17:29	08/08/14 18:02	1
4-Chloroaniline	<900		900	210	ug/Kg	☼	08/07/14 17:29	08/08/14 18:02	1
4-Chlorophenyl phenyl ether	<220		220	52	ug/Kg	☼	08/07/14 17:29	08/08/14 18:02	1
4-Nitroaniline	<440		440	190	ug/Kg	☼	08/07/14 17:29	08/08/14 18:02	1
4-Nitrophenol	<900		900	420	ug/Kg	☼	08/07/14 17:29	08/08/14 18:02	1
Acenaphthene	<44		44	8.0	ug/Kg	☼	08/07/14 17:29	08/08/14 18:02	1
Acenaphthylene	<44		44	5.9	ug/Kg	☼	08/07/14 17:29	08/08/14 18:02	1
Anthracene	<44		44	7.4	ug/Kg	☼	08/07/14 17:29	08/08/14 18:02	1
Benzo[a]anthracene	<44		44	6.0	ug/Kg	☼	08/07/14 17:29	08/08/14 18:02	1
Benzo[a]pyrene	<44		44	8.6	ug/Kg	☼	08/07/14 17:29	08/08/14 18:02	1
Benzo[b]fluoranthene	<44		44	9.6	ug/Kg	☼	08/07/14 17:29	08/08/14 18:02	1
Benzo[g,h,i]perylene	<44		44	14	ug/Kg	☼	08/07/14 17:29	08/08/14 18:02	1
Benzo[k]fluoranthene	<44		44	13	ug/Kg	☼	08/07/14 17:29	08/08/14 18:02	1
Bis(2-chloroethoxy)methane	<220		220	45	ug/Kg	☼	08/07/14 17:29	08/08/14 18:02	1
Bis(2-chloroethyl)ether	<220		220	67	ug/Kg	☼	08/07/14 17:29	08/08/14 18:02	1
Bis(2-ethylhexyl) phthalate	<220		220	81	ug/Kg	☼	08/07/14 17:29	08/08/14 18:02	1
Butyl benzyl phthalate	<220		220	84	ug/Kg	☼	08/07/14 17:29	08/08/14 18:02	1
Carbazole	<220	*	220	110	ug/Kg	☼	08/07/14 17:29	08/08/14 18:02	1
Chrysene	<44		44	12	ug/Kg	☼	08/07/14 17:29	08/08/14 18:02	1
Dibenz(a,h)anthracene	<44		44	8.6	ug/Kg	☼	08/07/14 17:29	08/08/14 18:02	1
Dibenzofuran	<220		220	52	ug/Kg	☼	08/07/14 17:29	08/08/14 18:02	1
Diethyl phthalate	<220		220	75	ug/Kg	☼	08/07/14 17:29	08/08/14 18:02	1
Dimethyl phthalate	<220		220	58	ug/Kg	☼	08/07/14 17:29	08/08/14 18:02	1
Di-n-butyl phthalate	<220		220	68	ug/Kg	☼	08/07/14 17:29	08/08/14 18:02	1
Di-n-octyl phthalate	<220		220	72	ug/Kg	☼	08/07/14 17:29	08/08/14 18:02	1
Fluoranthene	<44		44	8.2	ug/Kg	☼	08/07/14 17:29	08/08/14 18:02	1
Fluorene	<44		44	6.2	ug/Kg	☼	08/07/14 17:29	08/08/14 18:02	1
Hexachlorobenzene	<90		90	10	ug/Kg	☼	08/07/14 17:29	08/08/14 18:02	1
Hexachlorobutadiene	<220		220	70	ug/Kg	☼	08/07/14 17:29	08/08/14 18:02	1
Hexachlorocyclopentadiene	<900		900	260	ug/Kg	☼	08/07/14 17:29	08/08/14 18:02	1
Hexachloroethane	<220		220	67	ug/Kg	☼	08/07/14 17:29	08/08/14 18:02	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81267-1

**Client Sample ID: VL-4(6-12)-072514**

**Lab Sample ID: 500-81267-1**

**Date Collected: 07/25/14 14:00**

**Matrix: Solid**

**Date Received: 07/26/14 06:30**

**Percent Solids: 72.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<44		44	12	ug/Kg	☼	08/07/14 17:29	08/08/14 18:02	1
Isophorone	<220		220	50	ug/Kg	☼	08/07/14 17:29	08/08/14 18:02	1
Naphthalene	<44		44	6.8	ug/Kg	☼	08/07/14 17:29	08/08/14 18:02	1
Nitrobenzene	<44		44	11	ug/Kg	☼	08/07/14 17:29	08/08/14 18:02	1
N-Nitrosodi-n-propylamine	<220		220	54	ug/Kg	☼	08/07/14 17:29	08/08/14 18:02	1
N-Nitrosodiphenylamine	<220		220	52	ug/Kg	☼	08/07/14 17:29	08/08/14 18:02	1
Pentachlorophenol	<900		900	710	ug/Kg	☼	08/07/14 17:29	08/08/14 18:02	1
Phenanthrene	<44		44	6.2	ug/Kg	☼	08/07/14 17:29	08/08/14 18:02	1
Phenol	<220		220	99	ug/Kg	☼	08/07/14 17:29	08/08/14 18:02	1
Pyrene	<44		44	8.8	ug/Kg	☼	08/07/14 17:29	08/08/14 18:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	54		35 - 137				08/07/14 17:29	08/08/14 18:02	1
2-Fluorobiphenyl	37		25 - 119				08/07/14 17:29	08/08/14 18:02	1
2-Fluorophenol	39		25 - 110				08/07/14 17:29	08/08/14 18:02	1
Nitrobenzene-d5	31		25 - 115				08/07/14 17:29	08/08/14 18:02	1
Phenol-d5	40		31 - 110				08/07/14 17:29	08/08/14 18:02	1
Terphenyl-d14	60		36 - 134				08/07/14 17:29	08/08/14 18:02	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		08/05/14 09:30	08/06/14 01:20	1
<b>Barium</b>	<b>0.39</b>	<b>J</b>	0.50	0.050	mg/L		08/05/14 09:30	08/06/14 01:20	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/05/14 09:30	08/06/14 01:20	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/05/14 09:30	08/06/14 01:20	1
Chromium	<0.025		0.025	0.010	mg/L		08/05/14 09:30	08/06/14 01:20	1
Cobalt	<0.025		0.025	0.010	mg/L		08/05/14 09:30	08/06/14 01:20	1
Copper	<0.025		0.025	0.010	mg/L		08/05/14 09:30	08/06/14 01:20	1
Iron	<0.20		0.20	0.20	mg/L		08/05/14 09:30	08/06/14 01:20	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/05/14 09:30	08/06/14 01:20	1
<b>Manganese</b>	<b>0.92</b>		0.025	0.010	mg/L		08/05/14 09:30	08/06/14 01:20	1
Nickel	<0.025		0.025	0.010	mg/L		08/05/14 09:30	08/06/14 01:20	1
<b>Selenium</b>	<b>0.024</b>	<b>J B</b>	0.050	0.010	mg/L		08/05/14 09:30	08/06/14 01:20	1
Silver	<0.025		0.025	0.010	mg/L		08/05/14 09:30	08/06/14 01:20	1
Zinc	<0.10		0.10	0.020	mg/L		08/05/14 09:30	08/06/14 01:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		08/06/14 09:45	08/06/14 19:44	1
Barium	<0.50		0.50	0.050	mg/L		08/06/14 09:45	08/06/14 19:44	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/06/14 09:45	08/06/14 19:44	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/06/14 09:45	08/06/14 19:44	1
Chromium	<0.025		0.025	0.010	mg/L		08/06/14 09:45	08/06/14 19:44	1
Cobalt	<0.025		0.025	0.010	mg/L		08/06/14 09:45	08/06/14 19:44	1
Copper	<0.025		0.025	0.010	mg/L		08/06/14 09:45	08/06/14 19:44	1
<b>Iron</b>	<b>0.63</b>		0.20	0.20	mg/L		08/06/14 09:45	08/06/14 19:44	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/06/14 09:45	08/06/14 19:44	1
<b>Manganese</b>	<b>0.057</b>		0.025	0.010	mg/L		08/06/14 09:45	08/06/14 19:44	1
Nickel	<0.025		0.025	0.010	mg/L		08/06/14 09:45	08/06/14 19:44	1
Selenium	<0.050		0.050	0.010	mg/L		08/06/14 09:45	08/06/14 19:44	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81267-1

**Client Sample ID: VL-4(6-12)-072514**

**Lab Sample ID: 500-81267-1**

Date Collected: 07/25/14 14:00

Matrix: Solid

Date Received: 07/26/14 06:30

**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		08/06/14 09:45	08/06/14 19:44	1
Zinc	<0.10		0.10	0.020	mg/L		08/06/14 09:45	08/06/14 19:44	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.3		1.3	0.51	mg/Kg	☼	08/04/14 17:25	08/06/14 01:22	1
Arsenic	5.0		0.63	0.13	mg/Kg	☼	08/04/14 17:25	08/06/14 01:22	1
Barium	44		0.63	0.068	mg/Kg	☼	08/04/14 17:25	08/06/14 01:22	1
Beryllium	0.57		0.25	0.051	mg/Kg	☼	08/04/14 17:25	08/06/14 01:22	1
Cadmium	0.087	J	0.13	0.016	mg/Kg	☼	08/04/14 17:25	08/06/14 01:22	1
Calcium	91000	B	130	34	mg/Kg	☼	08/04/14 17:25	08/06/14 15:22	10
Chromium	17	B	0.63	0.074	mg/Kg	☼	08/04/14 17:25	08/06/14 01:22	1
Cobalt	12		0.32	0.063	mg/Kg	☼	08/04/14 17:25	08/06/14 01:22	1
Copper	22		0.63	0.13	mg/Kg	☼	08/04/14 17:25	08/06/14 01:22	1
Iron	19000		13	5.2	mg/Kg	☼	08/04/14 17:25	08/06/14 01:22	1
Lead	12		0.32	0.094	mg/Kg	☼	08/04/14 17:25	08/06/14 01:22	1
Magnesium	38000		6.3	1.3	mg/Kg	☼	08/04/14 17:25	08/06/14 01:22	1
Manganese	440	B	0.63	0.13	mg/Kg	☼	08/04/14 17:25	08/06/14 01:22	1
Nickel	28		0.63	0.13	mg/Kg	☼	08/04/14 17:25	08/06/14 01:22	1
Potassium	2600		32	1.9	mg/Kg	☼	08/04/14 17:25	08/06/14 01:22	1
Selenium	0.38	J	0.63	0.23	mg/Kg	☼	08/04/14 17:25	08/06/14 01:22	1
Silver	<0.32		0.32	0.023	mg/Kg	☼	08/04/14 17:25	08/06/14 01:22	1
Sodium	1300		63	8.5	mg/Kg	☼	08/04/14 17:25	08/06/14 01:22	1
Thallium	0.31	J	0.63	0.27	mg/Kg	☼	08/04/14 17:25	08/06/14 01:22	1
Vanadium	19	B	0.32	0.047	mg/Kg	☼	08/04/14 17:25	08/06/14 01:22	1
Zinc	60	B	1.3	0.26	mg/Kg	☼	08/04/14 17:25	08/06/14 01:22	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		08/05/14 12:00	08/06/14 09:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		08/06/14 12:00	08/07/14 10:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	28		21	8.1	ug/Kg	☼	08/04/14 15:00	08/05/14 08:44	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.96		0.200	0.200	SU			08/01/14 15:14	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81267-1

**Client Sample ID: VL-4(6-12)-072514D**

**Lab Sample ID: 500-81267-2**

**Date Collected: 07/25/14 14:00**

**Matrix: Solid**

**Date Received: 07/26/14 06:30**

**Percent Solids: 77.3**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>27</b>		6.5	2.8	ug/Kg	☼		07/29/14 23:27	1
Benzene	<6.5		6.5	0.89	ug/Kg	☼		07/29/14 23:27	1
Bromodichloromethane	<6.5		6.5	1.1	ug/Kg	☼		07/29/14 23:27	1
Bromoform	<6.5		6.5	1.5	ug/Kg	☼		07/29/14 23:27	1
Bromomethane	<6.5		6.5	2.0	ug/Kg	☼		07/29/14 23:27	1
Carbon disulfide	<6.5		6.5	0.97	ug/Kg	☼		07/29/14 23:27	1
Carbon tetrachloride	<6.5		6.5	1.2	ug/Kg	☼		07/29/14 23:27	1
Chlorobenzene	<6.5		6.5	0.66	ug/Kg	☼		07/29/14 23:27	1
Chloroethane	<6.5		6.5	1.8	ug/Kg	☼		07/29/14 23:27	1
Chloroform	<6.5		6.5	0.74	ug/Kg	☼		07/29/14 23:27	1
Chloromethane	<6.5		6.5	1.4	ug/Kg	☼		07/29/14 23:27	1
cis-1,2-Dichloroethene	<6.5		6.5	0.91	ug/Kg	☼		07/29/14 23:27	1
cis-1,3-Dichloropropene	<6.5		6.5	0.85	ug/Kg	☼		07/29/14 23:27	1
Dibromochloromethane	<6.5		6.5	1.1	ug/Kg	☼		07/29/14 23:27	1
1,1-Dichloroethane	<6.5		6.5	1.0	ug/Kg	☼		07/29/14 23:27	1
1,2-Dichloroethane	<6.5		6.5	0.96	ug/Kg	☼		07/29/14 23:27	1
1,1-Dichloroethene	<6.5		6.5	1.0	ug/Kg	☼		07/29/14 23:27	1
1,2-Dichloropropane	<6.5		6.5	0.98	ug/Kg	☼		07/29/14 23:27	1
1,3-Dichloropropene, Total	<6.5		6.5	0.85	ug/Kg	☼		07/29/14 23:27	1
Ethylbenzene	<6.5		6.5	1.3	ug/Kg	☼		07/29/14 23:27	1
2-Hexanone	<6.5		6.5	1.9	ug/Kg	☼		07/29/14 23:27	1
Methylene Chloride	<6.5		6.5	1.7	ug/Kg	☼		07/29/14 23:27	1
Methyl Ethyl Ketone	<6.5		6.5	2.3	ug/Kg	☼		07/29/14 23:27	1
methyl isobutyl ketone	<6.5		6.5	1.7	ug/Kg	☼		07/29/14 23:27	1
Methyl tert-butyl ether	<6.5		6.5	1.1	ug/Kg	☼		07/29/14 23:27	1
Styrene	<6.5		6.5	0.85	ug/Kg	☼		07/29/14 23:27	1
1,1,2,2-Tetrachloroethane	<6.5		6.5	1.3	ug/Kg	☼		07/29/14 23:27	1
Tetrachloroethene	<6.5		6.5	0.99	ug/Kg	☼		07/29/14 23:27	1
Toluene	<6.5		6.5	0.91	ug/Kg	☼		07/29/14 23:27	1
trans-1,2-Dichloroethene	<6.5		6.5	0.89	ug/Kg	☼		07/29/14 23:27	1
trans-1,3-Dichloropropene	<6.5		6.5	1.2	ug/Kg	☼		07/29/14 23:27	1
1,1,1-Trichloroethane	<6.5		6.5	0.97	ug/Kg	☼		07/29/14 23:27	1
1,1,2-Trichloroethane	<6.5		6.5	0.88	ug/Kg	☼		07/29/14 23:27	1
Trichloroethene	<6.5		6.5	1.1	ug/Kg	☼		07/29/14 23:27	1
Vinyl chloride	<6.5		6.5	1.4	ug/Kg	☼		07/29/14 23:27	1
Xylenes, Total	<13		13	0.59	ug/Kg	☼		07/29/14 23:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 122		07/29/14 23:27	1
Dibromofluoromethane	107		75 - 120		07/29/14 23:27	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134		07/29/14 23:27	1
Toluene-d8 (Surr)	99		75 - 122		07/29/14 23:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<210		210	44	ug/Kg	☼	08/07/14 17:29	08/08/14 18:27	1
1,2-Dichlorobenzene	<210		210	49	ug/Kg	☼	08/07/14 17:29	08/08/14 18:27	1
1,3-Dichlorobenzene	<210		210	46	ug/Kg	☼	08/07/14 17:29	08/08/14 18:27	1
1,4-Dichlorobenzene	<210		210	53	ug/Kg	☼	08/07/14 17:29	08/08/14 18:27	1
2,2'-oxybis[1-chloropropane]	<210		210	48	ug/Kg	☼	08/07/14 17:29	08/08/14 18:27	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81267-1

**Client Sample ID: VL-4(6-12)-072514D**

**Lab Sample ID: 500-81267-2**

**Date Collected: 07/25/14 14:00**

**Matrix: Solid**

**Date Received: 07/26/14 06:30**

**Percent Solids: 77.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<410		410	94	ug/Kg	☼	08/07/14 17:29	08/08/14 18:27	1
2,4,6-Trichlorophenol	<410		410	140	ug/Kg	☼	08/07/14 17:29	08/08/14 18:27	1
2,4-Dichlorophenol	<410		410	98	ug/Kg	☼	08/07/14 17:29	08/08/14 18:27	1
2,4-Dimethylphenol	<410		410	160	ug/Kg	☼	08/07/14 17:29	08/08/14 18:27	1
2,4-Dinitrophenol	<830	*	830	730	ug/Kg	☼	08/07/14 17:29	08/08/14 18:27	1
2,4-Dinitrotoluene	<210		210	66	ug/Kg	☼	08/07/14 17:29	08/08/14 18:27	1
2,6-Dinitrotoluene	<210		210	81	ug/Kg	☼	08/07/14 17:29	08/08/14 18:27	1
2-Chloronaphthalene	<210		210	46	ug/Kg	☼	08/07/14 17:29	08/08/14 18:27	1
2-Chlorophenol	<210		210	70	ug/Kg	☼	08/07/14 17:29	08/08/14 18:27	1
2-Methylnaphthalene	<41		41	7.6	ug/Kg	☼	08/07/14 17:29	08/08/14 18:27	1
2-Methylphenol	<210		210	66	ug/Kg	☼	08/07/14 17:29	08/08/14 18:27	1
2-Nitroaniline	<210		210	56	ug/Kg	☼	08/07/14 17:29	08/08/14 18:27	1
2-Nitrophenol	<410		410	98	ug/Kg	☼	08/07/14 17:29	08/08/14 18:27	1
3 & 4 Methylphenol	<210		210	69	ug/Kg	☼	08/07/14 17:29	08/08/14 18:27	1
3,3'-Dichlorobenzidine	<210		210	58	ug/Kg	☼	08/07/14 17:29	08/08/14 18:27	1
3-Nitroaniline	<410		410	130	ug/Kg	☼	08/07/14 17:29	08/08/14 18:27	1
4,6-Dinitro-2-methylphenol	<410	*	410	330	ug/Kg	☼	08/07/14 17:29	08/08/14 18:27	1
4-Bromophenyl phenyl ether	<210		210	54	ug/Kg	☼	08/07/14 17:29	08/08/14 18:27	1
4-Chloro-3-methylphenol	<410		410	140	ug/Kg	☼	08/07/14 17:29	08/08/14 18:27	1
4-Chloroaniline	<830		830	190	ug/Kg	☼	08/07/14 17:29	08/08/14 18:27	1
4-Chlorophenyl phenyl ether	<210		210	48	ug/Kg	☼	08/07/14 17:29	08/08/14 18:27	1
4-Nitroaniline	<410		410	170	ug/Kg	☼	08/07/14 17:29	08/08/14 18:27	1
4-Nitrophenol	<830		830	390	ug/Kg	☼	08/07/14 17:29	08/08/14 18:27	1
Acenaphthene	<41		41	7.4	ug/Kg	☼	08/07/14 17:29	08/08/14 18:27	1
Acenaphthylene	<41		41	5.4	ug/Kg	☼	08/07/14 17:29	08/08/14 18:27	1
Anthracene	<41		41	6.9	ug/Kg	☼	08/07/14 17:29	08/08/14 18:27	1
Benzo[a]anthracene	<41		41	5.6	ug/Kg	☼	08/07/14 17:29	08/08/14 18:27	1
Benzo[a]pyrene	<41		41	8.0	ug/Kg	☼	08/07/14 17:29	08/08/14 18:27	1
Benzo[b]fluoranthene	<41		41	8.9	ug/Kg	☼	08/07/14 17:29	08/08/14 18:27	1
Benzo[g,h,i]perylene	<41		41	13	ug/Kg	☼	08/07/14 17:29	08/08/14 18:27	1
Benzo[k]fluoranthene	<41		41	12	ug/Kg	☼	08/07/14 17:29	08/08/14 18:27	1
Bis(2-chloroethoxy)methane	<210		210	42	ug/Kg	☼	08/07/14 17:29	08/08/14 18:27	1
Bis(2-chloroethyl)ether	<210		210	62	ug/Kg	☼	08/07/14 17:29	08/08/14 18:27	1
Bis(2-ethylhexyl) phthalate	<210		210	75	ug/Kg	☼	08/07/14 17:29	08/08/14 18:27	1
Butyl benzyl phthalate	<210		210	79	ug/Kg	☼	08/07/14 17:29	08/08/14 18:27	1
Carbazole	<210	*	210	110	ug/Kg	☼	08/07/14 17:29	08/08/14 18:27	1
Chrysene	<41		41	11	ug/Kg	☼	08/07/14 17:29	08/08/14 18:27	1
Dibenz(a,h)anthracene	<41		41	8.0	ug/Kg	☼	08/07/14 17:29	08/08/14 18:27	1
Dibenzofuran	<210		210	48	ug/Kg	☼	08/07/14 17:29	08/08/14 18:27	1
Diethyl phthalate	<210		210	70	ug/Kg	☼	08/07/14 17:29	08/08/14 18:27	1
Dimethyl phthalate	<210		210	54	ug/Kg	☼	08/07/14 17:29	08/08/14 18:27	1
Di-n-butyl phthalate	<210		210	63	ug/Kg	☼	08/07/14 17:29	08/08/14 18:27	1
Di-n-octyl phthalate	<210		210	67	ug/Kg	☼	08/07/14 17:29	08/08/14 18:27	1
Fluoranthene	<41		41	7.7	ug/Kg	☼	08/07/14 17:29	08/08/14 18:27	1
Fluorene	<41		41	5.8	ug/Kg	☼	08/07/14 17:29	08/08/14 18:27	1
Hexachlorobenzene	<83		83	9.6	ug/Kg	☼	08/07/14 17:29	08/08/14 18:27	1
Hexachlorobutadiene	<210		210	65	ug/Kg	☼	08/07/14 17:29	08/08/14 18:27	1
Hexachlorocyclopentadiene	<830		830	240	ug/Kg	☼	08/07/14 17:29	08/08/14 18:27	1
Hexachloroethane	<210		210	63	ug/Kg	☼	08/07/14 17:29	08/08/14 18:27	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81267-1

**Client Sample ID: VL-4(6-12)-072514D**

**Lab Sample ID: 500-81267-2**

**Date Collected: 07/25/14 14:00**

**Matrix: Solid**

**Date Received: 07/26/14 06:30**

**Percent Solids: 77.3**

**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	<41		41	11	ug/Kg	☼	08/07/14 17:29	08/08/14 18:27	1
Isophorone	<210		210	46	ug/Kg	☼	08/07/14 17:29	08/08/14 18:27	1
Naphthalene	<41		41	6.3	ug/Kg	☼	08/07/14 17:29	08/08/14 18:27	1
Nitrobenzene	<41		41	10	ug/Kg	☼	08/07/14 17:29	08/08/14 18:27	1
N-Nitrosodi-n-propylamine	<210		210	50	ug/Kg	☼	08/07/14 17:29	08/08/14 18:27	1
N-Nitrosodiphenylamine	<210		210	49	ug/Kg	☼	08/07/14 17:29	08/08/14 18:27	1
Pentachlorophenol	<830		830	660	ug/Kg	☼	08/07/14 17:29	08/08/14 18:27	1
Phenanthrene	<41		41	5.8	ug/Kg	☼	08/07/14 17:29	08/08/14 18:27	1
Phenol	<210		210	92	ug/Kg	☼	08/07/14 17:29	08/08/14 18:27	1
Pyrene	<41		41	8.2	ug/Kg	☼	08/07/14 17:29	08/08/14 18:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	58		35 - 137				08/07/14 17:29	08/08/14 18:27	1
2-Fluorobiphenyl	40		25 - 119				08/07/14 17:29	08/08/14 18:27	1
2-Fluorophenol	51		25 - 110				08/07/14 17:29	08/08/14 18:27	1
Nitrobenzene-d5	36		25 - 115				08/07/14 17:29	08/08/14 18:27	1
Phenol-d5	48		31 - 110				08/07/14 17:29	08/08/14 18:27	1
Terphenyl-d14	68		36 - 134				08/07/14 17:29	08/08/14 18:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		08/05/14 09:30	08/06/14 01:26	1
<b>Barium</b>	<b>0.47</b>	<b>J</b>	0.50	0.050	mg/L		08/05/14 09:30	08/06/14 01:26	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/05/14 09:30	08/06/14 01:26	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/05/14 09:30	08/06/14 01:26	1
Chromium	<0.025		0.025	0.010	mg/L		08/05/14 09:30	08/06/14 01:26	1
Cobalt	<0.025		0.025	0.010	mg/L		08/05/14 09:30	08/06/14 01:26	1
Copper	<0.025		0.025	0.010	mg/L		08/05/14 09:30	08/06/14 01:26	1
Iron	<0.20		0.20	0.20	mg/L		08/05/14 09:30	08/06/14 01:26	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/05/14 09:30	08/06/14 01:26	1
<b>Manganese</b>	<b>1.2</b>		0.025	0.010	mg/L		08/05/14 09:30	08/06/14 01:26	1
<b>Nickel</b>	<b>0.011</b>	<b>J</b>	0.025	0.010	mg/L		08/05/14 09:30	08/06/14 01:26	1
<b>Selenium</b>	<b>0.024</b>	<b>J B</b>	0.050	0.010	mg/L		08/05/14 09:30	08/06/14 01:26	1
Silver	<0.025		0.025	0.010	mg/L		08/05/14 09:30	08/06/14 01:26	1
Zinc	<0.10		0.10	0.020	mg/L		08/05/14 09:30	08/06/14 01:26	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		08/06/14 09:45	08/06/14 20:25	1
Barium	<0.50		0.50	0.050	mg/L		08/06/14 09:45	08/06/14 20:25	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/06/14 09:45	08/06/14 20:25	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/06/14 09:45	08/06/14 20:25	1
Chromium	<0.025		0.025	0.010	mg/L		08/06/14 09:45	08/06/14 20:25	1
Cobalt	<0.025		0.025	0.010	mg/L		08/06/14 09:45	08/06/14 20:25	1
Copper	<0.025		0.025	0.010	mg/L		08/06/14 09:45	08/06/14 20:25	1
<b>Iron</b>	<b>0.75</b>		0.20	0.20	mg/L		08/06/14 09:45	08/06/14 20:25	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/06/14 09:45	08/06/14 20:25	1
<b>Manganese</b>	<b>0.057</b>		0.025	0.010	mg/L		08/06/14 09:45	08/06/14 20:25	1
Nickel	<0.025		0.025	0.010	mg/L		08/06/14 09:45	08/06/14 20:25	1
Selenium	<0.050		0.050	0.010	mg/L		08/06/14 09:45	08/06/14 20:25	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81267-1

**Client Sample ID: VL-4(6-12)-072514D**

**Lab Sample ID: 500-81267-2**

Date Collected: 07/25/14 14:00

Matrix: Solid

Date Received: 07/26/14 06:30

**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		08/06/14 09:45	08/06/14 20:25	1
Zinc	<0.10		0.10	0.020	mg/L		08/06/14 09:45	08/06/14 20:25	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.50	mg/Kg	☼	08/04/14 17:25	08/06/14 01:27	1
Arsenic	8.3		0.62	0.12	mg/Kg	☼	08/04/14 17:25	08/06/14 01:27	1
Barium	39		0.62	0.067	mg/Kg	☼	08/04/14 17:25	08/06/14 01:27	1
Beryllium	0.48		0.25	0.050	mg/Kg	☼	08/04/14 17:25	08/06/14 01:27	1
Cadmium	0.12		0.12	0.016	mg/Kg	☼	08/04/14 17:25	08/06/14 01:27	1
Calcium	81000	B	120	34	mg/Kg	☼	08/04/14 17:25	08/06/14 15:26	10
Chromium	14	B	0.62	0.072	mg/Kg	☼	08/04/14 17:25	08/06/14 01:27	1
Cobalt	10		0.31	0.062	mg/Kg	☼	08/04/14 17:25	08/06/14 01:27	1
Copper	20		0.62	0.12	mg/Kg	☼	08/04/14 17:25	08/06/14 01:27	1
Iron	17000		12	5.1	mg/Kg	☼	08/04/14 17:25	08/06/14 01:27	1
Lead	10		0.31	0.093	mg/Kg	☼	08/04/14 17:25	08/06/14 01:27	1
Magnesium	33000		6.2	1.3	mg/Kg	☼	08/04/14 17:25	08/06/14 01:27	1
Manganese	420	B	0.62	0.12	mg/Kg	☼	08/04/14 17:25	08/06/14 01:27	1
Nickel	24		0.62	0.12	mg/Kg	☼	08/04/14 17:25	08/06/14 01:27	1
Potassium	1900		31	1.9	mg/Kg	☼	08/04/14 17:25	08/06/14 01:27	1
Selenium	0.31	J	0.62	0.22	mg/Kg	☼	08/04/14 17:25	08/06/14 01:27	1
Silver	0.029	J	0.31	0.023	mg/Kg	☼	08/04/14 17:25	08/06/14 01:27	1
Sodium	1400		62	8.4	mg/Kg	☼	08/04/14 17:25	08/06/14 01:27	1
Thallium	<0.62		0.62	0.26	mg/Kg	☼	08/04/14 17:25	08/06/14 01:27	1
Vanadium	17	B	0.31	0.046	mg/Kg	☼	08/04/14 17:25	08/06/14 01:27	1
Zinc	49	B	1.2	0.25	mg/Kg	☼	08/04/14 17:25	08/06/14 01:27	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		08/05/14 12:00	08/06/14 09:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		08/06/14 12:00	08/07/14 10:32	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	7.4	ug/Kg	☼	08/04/14 15:00	08/05/14 08:46	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.05		0.200	0.200	SU			08/01/14 15:16	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81267-1

**Client Sample ID: VL-4(12-19)-072514**

**Lab Sample ID: 500-81267-3**

**Date Collected: 07/25/14 14:05**

**Matrix: Solid**

**Date Received: 07/26/14 06:30**

**Percent Solids: 84.9**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	12		5.9	2.5	ug/Kg	☼		07/29/14 23:50	1
Benzene	<5.9		5.9	0.81	ug/Kg	☼		07/29/14 23:50	1
Bromodichloromethane	<5.9		5.9	1.0	ug/Kg	☼		07/29/14 23:50	1
Bromoform	<5.9		5.9	1.4	ug/Kg	☼		07/29/14 23:50	1
Bromomethane	<5.9		5.9	1.8	ug/Kg	☼		07/29/14 23:50	1
Carbon disulfide	<5.9		5.9	0.88	ug/Kg	☼		07/29/14 23:50	1
Carbon tetrachloride	<5.9		5.9	1.1	ug/Kg	☼		07/29/14 23:50	1
Chlorobenzene	<5.9		5.9	0.60	ug/Kg	☼		07/29/14 23:50	1
Chloroethane	<5.9		5.9	1.6	ug/Kg	☼		07/29/14 23:50	1
Chloroform	<5.9		5.9	0.68	ug/Kg	☼		07/29/14 23:50	1
Chloromethane	<5.9		5.9	1.2	ug/Kg	☼		07/29/14 23:50	1
cis-1,2-Dichloroethene	<5.9		5.9	0.83	ug/Kg	☼		07/29/14 23:50	1
cis-1,3-Dichloropropene	<5.9		5.9	0.77	ug/Kg	☼		07/29/14 23:50	1
Dibromochloromethane	<5.9		5.9	1.0	ug/Kg	☼		07/29/14 23:50	1
1,1-Dichloroethane	<5.9		5.9	0.93	ug/Kg	☼		07/29/14 23:50	1
1,2-Dichloroethane	<5.9		5.9	0.87	ug/Kg	☼		07/29/14 23:50	1
1,1-Dichloroethene	<5.9		5.9	0.95	ug/Kg	☼		07/29/14 23:50	1
1,2-Dichloropropane	<5.9		5.9	0.89	ug/Kg	☼		07/29/14 23:50	1
1,3-Dichloropropene, Total	<5.9		5.9	0.77	ug/Kg	☼		07/29/14 23:50	1
Ethylbenzene	<5.9		5.9	1.2	ug/Kg	☼		07/29/14 23:50	1
2-Hexanone	<5.9		5.9	1.7	ug/Kg	☼		07/29/14 23:50	1
Methylene Chloride	<5.9		5.9	1.6	ug/Kg	☼		07/29/14 23:50	1
Methyl Ethyl Ketone	<5.9		5.9	2.1	ug/Kg	☼		07/29/14 23:50	1
methyl isobutyl ketone	<5.9		5.9	1.5	ug/Kg	☼		07/29/14 23:50	1
Methyl tert-butyl ether	<5.9		5.9	0.97	ug/Kg	☼		07/29/14 23:50	1
Styrene	<5.9		5.9	0.77	ug/Kg	☼		07/29/14 23:50	1
1,1,2,2-Tetrachloroethane	<5.9		5.9	1.2	ug/Kg	☼		07/29/14 23:50	1
Tetrachloroethene	<5.9		5.9	0.90	ug/Kg	☼		07/29/14 23:50	1
Toluene	<5.9		5.9	0.82	ug/Kg	☼		07/29/14 23:50	1
trans-1,2-Dichloroethene	<5.9		5.9	0.81	ug/Kg	☼		07/29/14 23:50	1
trans-1,3-Dichloropropene	<5.9		5.9	1.1	ug/Kg	☼		07/29/14 23:50	1
1,1,1-Trichloroethane	<5.9		5.9	0.88	ug/Kg	☼		07/29/14 23:50	1
1,1,2-Trichloroethane	<5.9		5.9	0.80	ug/Kg	☼		07/29/14 23:50	1
Trichloroethene	<5.9		5.9	0.97	ug/Kg	☼		07/29/14 23:50	1
Vinyl chloride	<5.9		5.9	1.2	ug/Kg	☼		07/29/14 23:50	1
Xylenes, Total	<12		12	0.53	ug/Kg	☼		07/29/14 23:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 122		07/29/14 23:50	1
Dibromofluoromethane	108		75 - 120		07/29/14 23:50	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 134		07/29/14 23:50	1
Toluene-d8 (Surr)	99		75 - 122		07/29/14 23:50	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	☼	08/07/14 17:29	08/08/14 18:52	1
1,2-Dichlorobenzene	<190		190	44	ug/Kg	☼	08/07/14 17:29	08/08/14 18:52	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	08/07/14 17:29	08/08/14 18:52	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	08/07/14 17:29	08/08/14 18:52	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	08/07/14 17:29	08/08/14 18:52	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81267-1

**Client Sample ID: VL-4(12-19)-072514**

**Lab Sample ID: 500-81267-3**

**Date Collected: 07/25/14 14:05**

**Matrix: Solid**

**Date Received: 07/26/14 06:30**

**Percent Solids: 84.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	85	ug/Kg	☼	08/07/14 17:29	08/08/14 18:52	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	08/07/14 17:29	08/08/14 18:52	1
2,4-Dichlorophenol	<370		370	88	ug/Kg	☼	08/07/14 17:29	08/08/14 18:52	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	08/07/14 17:29	08/08/14 18:52	1
2,4-Dinitrophenol	<750	*	750	650	ug/Kg	☼	08/07/14 17:29	08/08/14 18:52	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	08/07/14 17:29	08/08/14 18:52	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	08/07/14 17:29	08/08/14 18:52	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	08/07/14 17:29	08/08/14 18:52	1
2-Chlorophenol	<190		190	63	ug/Kg	☼	08/07/14 17:29	08/08/14 18:52	1
2-Methylnaphthalene	<37		37	6.8	ug/Kg	☼	08/07/14 17:29	08/08/14 18:52	1
2-Methylphenol	<190		190	60	ug/Kg	☼	08/07/14 17:29	08/08/14 18:52	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	08/07/14 17:29	08/08/14 18:52	1
2-Nitrophenol	<370		370	88	ug/Kg	☼	08/07/14 17:29	08/08/14 18:52	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	08/07/14 17:29	08/08/14 18:52	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	08/07/14 17:29	08/08/14 18:52	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	08/07/14 17:29	08/08/14 18:52	1
4,6-Dinitro-2-methylphenol	<370	*	370	300	ug/Kg	☼	08/07/14 17:29	08/08/14 18:52	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	08/07/14 17:29	08/08/14 18:52	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	08/07/14 17:29	08/08/14 18:52	1
4-Chloroaniline	<750		750	170	ug/Kg	☼	08/07/14 17:29	08/08/14 18:52	1
4-Chlorophenyl phenyl ether	<190		190	43	ug/Kg	☼	08/07/14 17:29	08/08/14 18:52	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	08/07/14 17:29	08/08/14 18:52	1
4-Nitrophenol	<750		750	350	ug/Kg	☼	08/07/14 17:29	08/08/14 18:52	1
Acenaphthene	<37		37	6.7	ug/Kg	☼	08/07/14 17:29	08/08/14 18:52	1
Acenaphthylene	<37		37	4.9	ug/Kg	☼	08/07/14 17:29	08/08/14 18:52	1
Anthracene	<37		37	6.2	ug/Kg	☼	08/07/14 17:29	08/08/14 18:52	1
Benzo[a]anthracene	<37		37	5.0	ug/Kg	☼	08/07/14 17:29	08/08/14 18:52	1
Benzo[a]pyrene	<37		37	7.2	ug/Kg	☼	08/07/14 17:29	08/08/14 18:52	1
Benzo[b]fluoranthene	<37		37	8.0	ug/Kg	☼	08/07/14 17:29	08/08/14 18:52	1
Benzo[g,h,i]perylene	<37		37	12	ug/Kg	☼	08/07/14 17:29	08/08/14 18:52	1
Benzo[k]fluoranthene	<37		37	11	ug/Kg	☼	08/07/14 17:29	08/08/14 18:52	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	08/07/14 17:29	08/08/14 18:52	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	08/07/14 17:29	08/08/14 18:52	1
Bis(2-ethylhexyl) phthalate	<190		190	68	ug/Kg	☼	08/07/14 17:29	08/08/14 18:52	1
Butyl benzyl phthalate	<190		190	71	ug/Kg	☼	08/07/14 17:29	08/08/14 18:52	1
Carbazole	<190	*	190	96	ug/Kg	☼	08/07/14 17:29	08/08/14 18:52	1
Chrysene	<37		37	10	ug/Kg	☼	08/07/14 17:29	08/08/14 18:52	1
Dibenz(a,h)anthracene	<37		37	7.2	ug/Kg	☼	08/07/14 17:29	08/08/14 18:52	1
Dibenzofuran	<190		190	43	ug/Kg	☼	08/07/14 17:29	08/08/14 18:52	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	08/07/14 17:29	08/08/14 18:52	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	08/07/14 17:29	08/08/14 18:52	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	08/07/14 17:29	08/08/14 18:52	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	08/07/14 17:29	08/08/14 18:52	1
Fluoranthene	<37		37	6.9	ug/Kg	☼	08/07/14 17:29	08/08/14 18:52	1
Fluorene	<37		37	5.2	ug/Kg	☼	08/07/14 17:29	08/08/14 18:52	1
Hexachlorobenzene	<75		75	8.6	ug/Kg	☼	08/07/14 17:29	08/08/14 18:52	1
Hexachlorobutadiene	<190		190	58	ug/Kg	☼	08/07/14 17:29	08/08/14 18:52	1
Hexachlorocyclopentadiene	<750		750	210	ug/Kg	☼	08/07/14 17:29	08/08/14 18:52	1
Hexachloroethane	<190		190	56	ug/Kg	☼	08/07/14 17:29	08/08/14 18:52	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81267-1

**Client Sample ID: VL-4(12-19)-072514**

**Lab Sample ID: 500-81267-3**

**Date Collected: 07/25/14 14:05**

**Matrix: Solid**

**Date Received: 07/26/14 06:30**

**Percent Solids: 84.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<37		37	9.6	ug/Kg	☼	08/07/14 17:29	08/08/14 18:52	1
Isophorone	<190		190	42	ug/Kg	☼	08/07/14 17:29	08/08/14 18:52	1
Naphthalene	<37		37	5.7	ug/Kg	☼	08/07/14 17:29	08/08/14 18:52	1
Nitrobenzene	<37		37	9.3	ug/Kg	☼	08/07/14 17:29	08/08/14 18:52	1
N-Nitrosodi-n-propylamine	<190		190	45	ug/Kg	☼	08/07/14 17:29	08/08/14 18:52	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	08/07/14 17:29	08/08/14 18:52	1
Pentachlorophenol	<750		750	600	ug/Kg	☼	08/07/14 17:29	08/08/14 18:52	1
Phenanthrene	<37		37	5.2	ug/Kg	☼	08/07/14 17:29	08/08/14 18:52	1
Phenol	<190		190	83	ug/Kg	☼	08/07/14 17:29	08/08/14 18:52	1
Pyrene	<37		37	7.4	ug/Kg	☼	08/07/14 17:29	08/08/14 18:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	50		35 - 137				08/07/14 17:29	08/08/14 18:52	1
2-Fluorobiphenyl	39		25 - 119				08/07/14 17:29	08/08/14 18:52	1
2-Fluorophenol	47		25 - 110				08/07/14 17:29	08/08/14 18:52	1
Nitrobenzene-d5	34		25 - 115				08/07/14 17:29	08/08/14 18:52	1
Phenol-d5	45		31 - 110				08/07/14 17:29	08/08/14 18:52	1
Terphenyl-d14	71		36 - 134				08/07/14 17:29	08/08/14 18:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		08/05/14 09:30	08/06/14 01:39	1
<b>Barium</b>	<b>0.44</b>	<b>J</b>	0.50	0.050	mg/L		08/05/14 09:30	08/06/14 01:39	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/05/14 09:30	08/06/14 01:39	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/05/14 09:30	08/06/14 01:39	1
Chromium	<0.025		0.025	0.010	mg/L		08/05/14 09:30	08/06/14 01:39	1
Cobalt	<0.025		0.025	0.010	mg/L		08/05/14 09:30	08/06/14 01:39	1
Copper	<0.025		0.025	0.010	mg/L		08/05/14 09:30	08/06/14 01:39	1
Iron	<0.20		0.20	0.20	mg/L		08/05/14 09:30	08/06/14 01:39	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/05/14 09:30	08/06/14 01:39	1
<b>Manganese</b>	<b>0.95</b>		0.025	0.010	mg/L		08/05/14 09:30	08/06/14 01:39	1
<b>Nickel</b>	<b>0.027</b>		0.025	0.010	mg/L		08/05/14 09:30	08/06/14 01:39	1
<b>Selenium</b>	<b>0.016</b>	<b>J B</b>	0.050	0.010	mg/L		08/05/14 09:30	08/06/14 01:39	1
Silver	<0.025		0.025	0.010	mg/L		08/05/14 09:30	08/06/14 01:39	1
Zinc	<0.10	<b>^</b>	0.10	0.020	mg/L		08/05/14 09:30	08/06/14 01:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		08/06/14 09:45	08/06/14 20:31	1
Barium	<0.50		0.50	0.050	mg/L		08/06/14 09:45	08/06/14 20:31	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/06/14 09:45	08/06/14 20:31	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/06/14 09:45	08/06/14 20:31	1
Chromium	<0.025		0.025	0.010	mg/L		08/06/14 09:45	08/06/14 20:31	1
Cobalt	<0.025		0.025	0.010	mg/L		08/06/14 09:45	08/06/14 20:31	1
<b>Copper</b>	<b>0.050</b>		0.025	0.010	mg/L		08/06/14 09:45	08/06/14 20:31	1
Iron	<0.20		0.20	0.20	mg/L		08/06/14 09:45	08/06/14 20:31	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/06/14 09:45	08/06/14 20:31	1
<b>Manganese</b>	<b>0.022</b>	<b>J</b>	0.025	0.010	mg/L		08/06/14 09:45	08/06/14 20:31	1
Nickel	<0.025		0.025	0.010	mg/L		08/06/14 09:45	08/06/14 20:31	1
Selenium	<0.050		0.050	0.010	mg/L		08/06/14 09:45	08/06/14 20:31	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81267-1

**Client Sample ID: VL-4(12-19)-072514**

**Lab Sample ID: 500-81267-3**

Date Collected: 07/25/14 14:05

Matrix: Solid

Date Received: 07/26/14 06:30

**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		08/06/14 09:45	08/06/14 20:31	1
<b>Zinc</b>	<b>0.020</b>	<b>J</b>	0.10	0.020	mg/L		08/06/14 09:45	08/06/14 20:31	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.45	mg/Kg	☼	08/04/14 17:25	08/06/14 01:39	1
<b>Arsenic</b>	<b>5.7</b>		0.55	0.11	mg/Kg	☼	08/04/14 17:25	08/06/14 01:39	1
<b>Barium</b>	<b>41</b>		0.55	0.059	mg/Kg	☼	08/04/14 17:25	08/06/14 01:39	1
<b>Beryllium</b>	<b>0.53</b>		0.22	0.044	mg/Kg	☼	08/04/14 17:25	08/06/14 01:39	1
<b>Cadmium</b>	<b>0.079</b>	<b>J</b>	0.11	0.014	mg/Kg	☼	08/04/14 17:25	08/06/14 01:39	1
<b>Calcium</b>	<b>77000</b>	<b>B</b>	110	30	mg/Kg	☼	08/04/14 17:25	08/06/14 15:30	10
<b>Chromium</b>	<b>16</b>	<b>B</b>	0.55	0.064	mg/Kg	☼	08/04/14 17:25	08/06/14 01:39	1
<b>Cobalt</b>	<b>11</b>		0.28	0.055	mg/Kg	☼	08/04/14 17:25	08/06/14 01:39	1
<b>Copper</b>	<b>21</b>		0.55	0.11	mg/Kg	☼	08/04/14 17:25	08/06/14 01:39	1
<b>Iron</b>	<b>17000</b>		11	4.6	mg/Kg	☼	08/04/14 17:25	08/06/14 01:39	1
<b>Lead</b>	<b>11</b>		0.28	0.083	mg/Kg	☼	08/04/14 17:25	08/06/14 01:39	1
<b>Magnesium</b>	<b>35000</b>		5.5	1.1	mg/Kg	☼	08/04/14 17:25	08/06/14 01:39	1
<b>Manganese</b>	<b>380</b>	<b>B</b>	0.55	0.11	mg/Kg	☼	08/04/14 17:25	08/06/14 01:39	1
<b>Nickel</b>	<b>28</b>		0.55	0.11	mg/Kg	☼	08/04/14 17:25	08/06/14 01:39	1
<b>Potassium</b>	<b>2600</b>		28	1.7	mg/Kg	☼	08/04/14 17:25	08/06/14 01:39	1
<b>Selenium</b>	<b>0.38</b>	<b>J</b>	0.55	0.20	mg/Kg	☼	08/04/14 17:25	08/06/14 01:39	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	08/04/14 17:25	08/06/14 01:39	1
<b>Sodium</b>	<b>170</b>		55	7.4	mg/Kg	☼	08/04/14 17:25	08/06/14 01:39	1
Thallium	<0.55		0.55	0.23	mg/Kg	☼	08/04/14 17:25	08/06/14 01:39	1
<b>Vanadium</b>	<b>17</b>	<b>B</b>	0.28	0.041	mg/Kg	☼	08/04/14 17:25	08/06/14 01:39	1
<b>Zinc</b>	<b>52</b>	<b>B</b>	1.1	0.22	mg/Kg	☼	08/04/14 17:25	08/06/14 01:39	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		08/05/14 12:00	08/06/14 09:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		08/06/14 12:00	08/07/14 10:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>18</b>		18	7.1	ug/Kg	☼	08/04/14 15:00	08/05/14 08:47	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.34</b>		0.200	0.200	SU			08/01/14 15:18	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81267-1

**Client Sample ID: VL-4(19-26)-072514**

**Lab Sample ID: 500-81267-4**

**Date Collected: 07/25/14 14:10**

**Matrix: Solid**

**Date Received: 07/26/14 06:30**

**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	*		07/30/14 00:13	1
Benzene	<6.0		6.0	0.82	ug/Kg	*		07/30/14 00:13	1
Bromodichloromethane	<6.0		6.0	1.0	ug/Kg	*		07/30/14 00:13	1
Bromoform	<6.0		6.0	1.4	ug/Kg	*		07/30/14 00:13	1
Bromomethane	<6.0		6.0	1.8	ug/Kg	*		07/30/14 00:13	1
Carbon disulfide	<6.0		6.0	0.89	ug/Kg	*		07/30/14 00:13	1
Carbon tetrachloride	<6.0		6.0	1.1	ug/Kg	*		07/30/14 00:13	1
Chlorobenzene	<6.0		6.0	0.61	ug/Kg	*		07/30/14 00:13	1
Chloroethane	<6.0		6.0	1.6	ug/Kg	*		07/30/14 00:13	1
Chloroform	<6.0		6.0	0.69	ug/Kg	*		07/30/14 00:13	1
Chloromethane	<6.0		6.0	1.3	ug/Kg	*		07/30/14 00:13	1
cis-1,2-Dichloroethene	<6.0		6.0	0.84	ug/Kg	*		07/30/14 00:13	1
cis-1,3-Dichloropropene	<6.0		6.0	0.78	ug/Kg	*		07/30/14 00:13	1
Dibromochloromethane	<6.0		6.0	1.0	ug/Kg	*		07/30/14 00:13	1
1,1-Dichloroethane	<6.0		6.0	0.94	ug/Kg	*		07/30/14 00:13	1
1,2-Dichloroethane	<6.0		6.0	0.88	ug/Kg	*		07/30/14 00:13	1
1,1-Dichloroethene	<6.0		6.0	0.96	ug/Kg	*		07/30/14 00:13	1
1,2-Dichloropropane	<6.0		6.0	0.91	ug/Kg	*		07/30/14 00:13	1
1,3-Dichloropropene, Total	<6.0		6.0	0.78	ug/Kg	*		07/30/14 00:13	1
Ethylbenzene	<6.0		6.0	1.2	ug/Kg	*		07/30/14 00:13	1
2-Hexanone	<6.0		6.0	1.7	ug/Kg	*		07/30/14 00:13	1
Methylene Chloride	<6.0		6.0	1.6	ug/Kg	*		07/30/14 00:13	1
Methyl Ethyl Ketone	<6.0		6.0	2.2	ug/Kg	*		07/30/14 00:13	1
methyl isobutyl ketone	<6.0		6.0	1.6	ug/Kg	*		07/30/14 00:13	1
Methyl tert-butyl ether	<6.0		6.0	0.99	ug/Kg	*		07/30/14 00:13	1
Styrene	<6.0		6.0	0.78	ug/Kg	*		07/30/14 00:13	1
1,1,2,2-Tetrachloroethane	<6.0		6.0	1.2	ug/Kg	*		07/30/14 00:13	1
Tetrachloroethene	<6.0		6.0	0.91	ug/Kg	*		07/30/14 00:13	1
Toluene	<6.0		6.0	0.84	ug/Kg	*		07/30/14 00:13	1
trans-1,2-Dichloroethene	<6.0		6.0	0.82	ug/Kg	*		07/30/14 00:13	1
trans-1,3-Dichloropropene	<6.0		6.0	1.1	ug/Kg	*		07/30/14 00:13	1
1,1,1-Trichloroethane	<6.0		6.0	0.89	ug/Kg	*		07/30/14 00:13	1
1,1,2-Trichloroethane	<6.0		6.0	0.81	ug/Kg	*		07/30/14 00:13	1
Trichloroethene	<6.0		6.0	0.98	ug/Kg	*		07/30/14 00:13	1
Vinyl chloride	<6.0		6.0	1.3	ug/Kg	*		07/30/14 00:13	1
Xylenes, Total	<12		12	0.54	ug/Kg	*		07/30/14 00:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122		07/30/14 00:13	1
Dibromofluoromethane	113		75 - 120		07/30/14 00:13	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 134		07/30/14 00:13	1
Toluene-d8 (Surr)	101		75 - 122		07/30/14 00:13	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	42	ug/Kg	*	08/07/14 17:29	08/08/14 19:17	1
1,2-Dichlorobenzene	<200		200	47	ug/Kg	*	08/07/14 17:29	08/08/14 19:17	1
1,3-Dichlorobenzene	<200		200	44	ug/Kg	*	08/07/14 17:29	08/08/14 19:17	1
1,4-Dichlorobenzene	<200		200	50	ug/Kg	*	08/07/14 17:29	08/08/14 19:17	1
2,2'-oxybis[1-chloropropane]	<200		200	45	ug/Kg	*	08/07/14 17:29	08/08/14 19:17	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81267-1

**Client Sample ID: VL-4(19-26)-072514**

**Lab Sample ID: 500-81267-4**

**Date Collected: 07/25/14 14:10**

**Matrix: Solid**

**Date Received: 07/26/14 06:30**

**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	<390		390	89	ug/Kg	☼	08/07/14 17:29	08/08/14 19:17	1
2,4,6-Trichlorophenol	<390		390	130	ug/Kg	☼	08/07/14 17:29	08/08/14 19:17	1
2,4-Dichlorophenol	<390		390	93	ug/Kg	☼	08/07/14 17:29	08/08/14 19:17	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	08/07/14 17:29	08/08/14 19:17	1
2,4-Dinitrophenol	<790	*	790	690	ug/Kg	☼	08/07/14 17:29	08/08/14 19:17	1
2,4-Dinitrotoluene	<200		200	62	ug/Kg	☼	08/07/14 17:29	08/08/14 19:17	1
2,6-Dinitrotoluene	<200		200	77	ug/Kg	☼	08/07/14 17:29	08/08/14 19:17	1
2-Chloronaphthalene	<200		200	43	ug/Kg	☼	08/07/14 17:29	08/08/14 19:17	1
2-Chlorophenol	<200		200	67	ug/Kg	☼	08/07/14 17:29	08/08/14 19:17	1
2-Methylnaphthalene	<39		39	7.2	ug/Kg	☼	08/07/14 17:29	08/08/14 19:17	1
2-Methylphenol	<200		200	63	ug/Kg	☼	08/07/14 17:29	08/08/14 19:17	1
2-Nitroaniline	<200		200	52	ug/Kg	☼	08/07/14 17:29	08/08/14 19:17	1
2-Nitrophenol	<390		390	92	ug/Kg	☼	08/07/14 17:29	08/08/14 19:17	1
3 & 4 Methylphenol	<200		200	65	ug/Kg	☼	08/07/14 17:29	08/08/14 19:17	1
3,3'-Dichlorobenzidine	<200		200	55	ug/Kg	☼	08/07/14 17:29	08/08/14 19:17	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	08/07/14 17:29	08/08/14 19:17	1
4,6-Dinitro-2-methylphenol	<390	*	390	310	ug/Kg	☼	08/07/14 17:29	08/08/14 19:17	1
4-Bromophenyl phenyl ether	<200		200	51	ug/Kg	☼	08/07/14 17:29	08/08/14 19:17	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	08/07/14 17:29	08/08/14 19:17	1
4-Chloroaniline	<790		790	180	ug/Kg	☼	08/07/14 17:29	08/08/14 19:17	1
4-Chlorophenyl phenyl ether	<200		200	46	ug/Kg	☼	08/07/14 17:29	08/08/14 19:17	1
4-Nitroaniline	<390		390	160	ug/Kg	☼	08/07/14 17:29	08/08/14 19:17	1
4-Nitrophenol	<790		790	370	ug/Kg	☼	08/07/14 17:29	08/08/14 19:17	1
Acenaphthene	<39		39	7.0	ug/Kg	☼	08/07/14 17:29	08/08/14 19:17	1
Acenaphthylene	<39		39	5.1	ug/Kg	☼	08/07/14 17:29	08/08/14 19:17	1
Anthracene	<39		39	6.5	ug/Kg	☼	08/07/14 17:29	08/08/14 19:17	1
Benzo[a]anthracene	<39		39	5.2	ug/Kg	☼	08/07/14 17:29	08/08/14 19:17	1
Benzo[a]pyrene	<39		39	7.5	ug/Kg	☼	08/07/14 17:29	08/08/14 19:17	1
Benzo[b]fluoranthene	<39		39	8.4	ug/Kg	☼	08/07/14 17:29	08/08/14 19:17	1
Benzo[g,h,i]perylene	<39		39	13	ug/Kg	☼	08/07/14 17:29	08/08/14 19:17	1
Benzo[k]fluoranthene	<39		39	11	ug/Kg	☼	08/07/14 17:29	08/08/14 19:17	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	☼	08/07/14 17:29	08/08/14 19:17	1
Bis(2-chloroethyl)ether	<200		200	58	ug/Kg	☼	08/07/14 17:29	08/08/14 19:17	1
Bis(2-ethylhexyl) phthalate	<200		200	71	ug/Kg	☼	08/07/14 17:29	08/08/14 19:17	1
Butyl benzyl phthalate	<200		200	74	ug/Kg	☼	08/07/14 17:29	08/08/14 19:17	1
Carbazole	<200	*	200	100	ug/Kg	☼	08/07/14 17:29	08/08/14 19:17	1
Chrysene	<39		39	11	ug/Kg	☼	08/07/14 17:29	08/08/14 19:17	1
Dibenz(a,h)anthracene	<39		39	7.5	ug/Kg	☼	08/07/14 17:29	08/08/14 19:17	1
Dibenzofuran	<200		200	46	ug/Kg	☼	08/07/14 17:29	08/08/14 19:17	1
Diethyl phthalate	<200		200	66	ug/Kg	☼	08/07/14 17:29	08/08/14 19:17	1
Dimethyl phthalate	<200		200	51	ug/Kg	☼	08/07/14 17:29	08/08/14 19:17	1
Di-n-butyl phthalate	<200		200	59	ug/Kg	☼	08/07/14 17:29	08/08/14 19:17	1
Di-n-octyl phthalate	<200		200	64	ug/Kg	☼	08/07/14 17:29	08/08/14 19:17	1
Fluoranthene	<39		39	7.2	ug/Kg	☼	08/07/14 17:29	08/08/14 19:17	1
Fluorene	<39		39	5.5	ug/Kg	☼	08/07/14 17:29	08/08/14 19:17	1
Hexachlorobenzene	<79		79	9.0	ug/Kg	☼	08/07/14 17:29	08/08/14 19:17	1
Hexachlorobutadiene	<200		200	61	ug/Kg	☼	08/07/14 17:29	08/08/14 19:17	1
Hexachlorocyclopentadiene	<790		790	220	ug/Kg	☼	08/07/14 17:29	08/08/14 19:17	1
Hexachloroethane	<200		200	59	ug/Kg	☼	08/07/14 17:29	08/08/14 19:17	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81267-1

**Client Sample ID: VL-4(19-26)-072514**

**Lab Sample ID: 500-81267-4**

**Date Collected: 07/25/14 14:10**

**Matrix: Solid**

**Date Received: 07/26/14 06:30**

**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	<39		39	10	ug/Kg	☼	08/07/14 17:29	08/08/14 19:17	1
Isophorone	<200		200	44	ug/Kg	☼	08/07/14 17:29	08/08/14 19:17	1
Naphthalene	<39		39	6.0	ug/Kg	☼	08/07/14 17:29	08/08/14 19:17	1
Nitrobenzene	<39		39	9.7	ug/Kg	☼	08/07/14 17:29	08/08/14 19:17	1
N-Nitrosodi-n-propylamine	<200		200	48	ug/Kg	☼	08/07/14 17:29	08/08/14 19:17	1
N-Nitrosodiphenylamine	<200		200	46	ug/Kg	☼	08/07/14 17:29	08/08/14 19:17	1
Pentachlorophenol	<790		790	630	ug/Kg	☼	08/07/14 17:29	08/08/14 19:17	1
<b>Phenanthrene</b>	<b>12</b>	<b>J</b>	39	5.4	ug/Kg	☼	08/07/14 17:29	08/08/14 19:17	1
Phenol	<200		200	87	ug/Kg	☼	08/07/14 17:29	08/08/14 19:17	1
<b>Pyrene</b>	<b>12</b>	<b>J</b>	39	7.7	ug/Kg	☼	08/07/14 17:29	08/08/14 19:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	51		35 - 137				08/07/14 17:29	08/08/14 19:17	1
2-Fluorobiphenyl	41		25 - 119				08/07/14 17:29	08/08/14 19:17	1
2-Fluorophenol	50		25 - 110				08/07/14 17:29	08/08/14 19:17	1
Nitrobenzene-d5	36		25 - 115				08/07/14 17:29	08/08/14 19:17	1
Phenol-d5	48		31 - 110				08/07/14 17:29	08/08/14 19:17	1
Terphenyl-d14	74		36 - 134				08/07/14 17:29	08/08/14 19:17	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		08/05/14 09:30	08/06/14 01:44	1
<b>Barium</b>	<b>0.42</b>	<b>J</b>	0.50	0.050	mg/L		08/05/14 09:30	08/06/14 01:44	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/05/14 09:30	08/06/14 01:44	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/05/14 09:30	08/06/14 01:44	1
Chromium	<0.025		0.025	0.010	mg/L		08/05/14 09:30	08/06/14 01:44	1
Cobalt	<0.025		0.025	0.010	mg/L		08/05/14 09:30	08/06/14 01:44	1
Copper	<0.025		0.025	0.010	mg/L		08/05/14 09:30	08/06/14 01:44	1
Iron	<0.20		0.20	0.20	mg/L		08/05/14 09:30	08/06/14 01:44	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/05/14 09:30	08/06/14 01:44	1
<b>Manganese</b>	<b>0.89</b>		0.025	0.010	mg/L		08/05/14 09:30	08/06/14 01:44	1
<b>Nickel</b>	<b>0.029</b>		0.025	0.010	mg/L		08/05/14 09:30	08/06/14 01:44	1
<b>Selenium</b>	<b>0.017</b>	<b>J B</b>	0.050	0.010	mg/L		08/05/14 09:30	08/06/14 01:44	1
Silver	<0.025		0.025	0.010	mg/L		08/05/14 09:30	08/06/14 01:44	1
Zinc	<0.10	^	0.10	0.020	mg/L		08/05/14 09:30	08/06/14 01:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		08/06/14 09:45	08/06/14 20:38	1
Barium	<0.50		0.50	0.050	mg/L		08/06/14 09:45	08/06/14 20:38	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/06/14 09:45	08/06/14 20:38	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/06/14 09:45	08/06/14 20:38	1
Chromium	<0.025		0.025	0.010	mg/L		08/06/14 09:45	08/06/14 20:38	1
Cobalt	<0.025		0.025	0.010	mg/L		08/06/14 09:45	08/06/14 20:38	1
Copper	<0.025		0.025	0.010	mg/L		08/06/14 09:45	08/06/14 20:38	1
<b>Iron</b>	<b>0.46</b>		0.20	0.20	mg/L		08/06/14 09:45	08/06/14 20:38	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/06/14 09:45	08/06/14 20:38	1
Manganese	<0.025		0.025	0.010	mg/L		08/06/14 09:45	08/06/14 20:38	1
Nickel	<0.025		0.025	0.010	mg/L		08/06/14 09:45	08/06/14 20:38	1
Selenium	<0.050		0.050	0.010	mg/L		08/06/14 09:45	08/06/14 20:38	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81267-1

**Client Sample ID: VL-4(19-26)-072514**

**Lab Sample ID: 500-81267-4**

Date Collected: 07/25/14 14:10

Matrix: Solid

Date Received: 07/26/14 06:30

**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		08/06/14 09:45	08/06/14 20:38	1
Zinc	<0.10		0.10	0.020	mg/L		08/06/14 09:45	08/06/14 20:38	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.45	mg/Kg	☼	08/04/14 17:25	08/06/14 01:44	1
Arsenic	8.3		0.56	0.11	mg/Kg	☼	08/04/14 17:25	08/06/14 01:44	1
Barium	38		0.56	0.060	mg/Kg	☼	08/04/14 17:25	08/06/14 01:44	1
Beryllium	0.51		0.22	0.045	mg/Kg	☼	08/04/14 17:25	08/06/14 01:44	1
Cadmium	0.085	J	0.11	0.014	mg/Kg	☼	08/04/14 17:25	08/06/14 01:44	1
Calcium	85000	B	110	30	mg/Kg	☼	08/04/14 17:25	08/06/14 15:34	10
Chromium	15	B	0.56	0.065	mg/Kg	☼	08/04/14 17:25	08/06/14 01:44	1
Cobalt	11		0.28	0.056	mg/Kg	☼	08/04/14 17:25	08/06/14 01:44	1
Copper	23		0.56	0.11	mg/Kg	☼	08/04/14 17:25	08/06/14 01:44	1
Iron	17000		11	4.6	mg/Kg	☼	08/04/14 17:25	08/06/14 01:44	1
Lead	11		0.28	0.083	mg/Kg	☼	08/04/14 17:25	08/06/14 01:44	1
Magnesium	38000		5.6	1.1	mg/Kg	☼	08/04/14 17:25	08/06/14 01:44	1
Manganese	390	B	0.56	0.11	mg/Kg	☼	08/04/14 17:25	08/06/14 01:44	1
Nickel	27		0.56	0.11	mg/Kg	☼	08/04/14 17:25	08/06/14 01:44	1
Potassium	2500		28	1.7	mg/Kg	☼	08/04/14 17:25	08/06/14 01:44	1
Selenium	0.36	J	0.56	0.20	mg/Kg	☼	08/04/14 17:25	08/06/14 01:44	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	08/04/14 17:25	08/06/14 01:44	1
Sodium	170		56	7.5	mg/Kg	☼	08/04/14 17:25	08/06/14 01:44	1
Thallium	0.27	J	0.56	0.23	mg/Kg	☼	08/04/14 17:25	08/06/14 01:44	1
Vanadium	17	B	0.28	0.041	mg/Kg	☼	08/04/14 17:25	08/06/14 01:44	1
Zinc	57	B	1.1	0.22	mg/Kg	☼	08/04/14 17:25	08/06/14 01:44	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		08/05/14 12:00	08/06/14 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		08/06/14 12:00	08/07/14 10:40	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	22		18	6.9	ug/Kg	☼	08/04/14 15:00	08/05/14 08:50	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.74		0.200	0.200	SU			08/01/14 15:21	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81267-1

## Qualifiers

### GC/MS Semi VOA

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

### Metals

Qualifier	Qualifier Description
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 - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81267-1

## 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) S. Babusukumar Bill To (optional) SAME  
 Contact: S. Babusukumar Contact: SAME  
 Company: Weston Solutions Inc Company: \_\_\_\_\_  
 Address: 300 Plaza Circle Ste. 202 Address: \_\_\_\_\_  
 Address: Mundelein, IL 60060 Address: \_\_\_\_\_  
 Phone: 224-864-7200 Phone: \_\_\_\_\_  
 Fax: 224-864-7236 Fax: \_\_\_\_\_  
 E-Mail: \_\_\_\_\_ PO#/Reference# \_\_\_\_\_

## Chain of Custody Record

Lab Job #: 500-81267  
 Chain of Custody Number: \_\_\_\_\_  
 Page 3 of 3  
 Temperature °C of Cooler: (40) (37)

Client		Client Project #		Preservative		Parameter		Matrix		Comments	
Weston Solutions Inc.										Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		# of Containers		Matrix		Matrix		Comments	
IDOT - 046 - IL 132 (Grand Ave)											
Project Location/State		Lab Project #		Date		Time		Matrix		Comments	
Lake County, IL											
Sampler		Lab PM		Date		Time		Matrix		Comments	
M. Doherty-Skubic		D. Wright									
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	Matrix	Matrix	Matrix	Matrix	Comments
1		VL-4(6-12)-072514	7-25-14	1406	2	S	VOCs	SVOCs	TOTAL METALS	TOLUENE METALS	PH
2		VL-4(6-12)-072514Dp	7-25-14	1400	2	S	X	X	X	X	X
3		VL-4(12-19)-072514	7-25-14	1405	2	S	X	X	X	X	X
4		VL-4(19-26)-072514	7-25-14	1410	2	S	X	X	X	X	X

Turnaround Time Required (Business Days)

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

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. Doherty-Skubic</u> Company: <u>Weston</u> Date: <u>7-25-14</u> Time: <u>1526</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>7/26/14</u> Time: <u>1520</u>
Relinquished By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>7/25/14</u> Time: <u>1650</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>7/26/14</u> Time: <u>0630</u>
Relinquished By: <u>[Signature]</u> Company: _____ Date: _____ Time: <u>1835</u>	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: 500-81564-1

Client Project/Site: IDOT - IL Rt. 132 - WO 046

Revision: 1

For:

Weston Solutions, Inc.

300 Plaza Circle, Suite 202

Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar



Authorized for release by:

8/21/2014 3:09:50 PM

Richard Wright, Senior Project Manager

(708)534-5200

[richard.wright@testamericainc.com](mailto:richard.wright@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://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
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- 11
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- 13
- 14
- 15

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81564-1

**Client Sample ID: VL-2(0-6)-073014**

**Lab Sample ID: 500-81564-5**

**Date Collected: 07/30/14 11:00**

**Matrix: Solid**

**Date Received: 07/31/14 16:20**

**Percent Solids: 88.9**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	18		5.6	2.4	ug/Kg	☼		08/01/14 15:38	1
Benzene	<5.6		5.6	0.77	ug/Kg	☼		08/01/14 15:38	1
Bromodichloromethane	<5.6		5.6	0.97	ug/Kg	☼		08/01/14 15:38	1
Bromoform	<5.6		5.6	1.3	ug/Kg	☼		08/01/14 15:38	1
Bromomethane	<5.6		5.6	1.7	ug/Kg	☼		08/01/14 15:38	1
Carbon disulfide	<5.6		5.6	0.84	ug/Kg	☼		08/01/14 15:38	1
Carbon tetrachloride	<5.6		5.6	1.0	ug/Kg	☼		08/01/14 15:38	1
Chlorobenzene	<5.6		5.6	0.57	ug/Kg	☼		08/01/14 15:38	1
Chloroethane	<5.6		5.6	1.5	ug/Kg	☼		08/01/14 15:38	1
Chloroform	<5.6		5.6	0.65	ug/Kg	☼		08/01/14 15:38	1
Chloromethane	<5.6		5.6	1.2	ug/Kg	☼		08/01/14 15:38	1
cis-1,2-Dichloroethene	<5.6		5.6	0.80	ug/Kg	☼		08/01/14 15:38	1
cis-1,3-Dichloropropene	<5.6		5.6	0.74	ug/Kg	☼		08/01/14 15:38	1
Dibromochloromethane	<5.6		5.6	0.98	ug/Kg	☼		08/01/14 15:38	1
1,1-Dichloroethane	<5.6		5.6	0.89	ug/Kg	☼		08/01/14 15:38	1
1,2-Dichloroethane	<5.6		5.6	0.83	ug/Kg	☼		08/01/14 15:38	1
1,1-Dichloroethene	<5.6		5.6	0.91	ug/Kg	☼		08/01/14 15:38	1
1,2-Dichloropropane	<5.6		5.6	0.85	ug/Kg	☼		08/01/14 15:38	1
1,3-Dichloropropene, Total	<5.6		5.6	0.74	ug/Kg	☼		08/01/14 15:38	1
Ethylbenzene	<5.6		5.6	1.1	ug/Kg	☼		08/01/14 15:38	1
2-Hexanone	<5.6		5.6	1.6	ug/Kg	☼		08/01/14 15:38	1
Methylene Chloride	<5.6		5.6	1.5	ug/Kg	☼		08/01/14 15:38	1
Methyl Ethyl Ketone	<5.6		5.6	2.0	ug/Kg	☼		08/01/14 15:38	1
methyl isobutyl ketone	<5.6		5.6	1.5	ug/Kg	☼		08/01/14 15:38	1
Methyl tert-butyl ether	<5.6		5.6	0.93	ug/Kg	☼		08/01/14 15:38	1
Styrene	<5.6		5.6	0.74	ug/Kg	☼		08/01/14 15:38	1
1,1,2,2-Tetrachloroethane	<5.6		5.6	1.1	ug/Kg	☼		08/01/14 15:38	1
Tetrachloroethene	<5.6		5.6	0.86	ug/Kg	☼		08/01/14 15:38	1
Toluene	<5.6		5.6	0.79	ug/Kg	☼		08/01/14 15:38	1
trans-1,2-Dichloroethene	<5.6		5.6	0.77	ug/Kg	☼		08/01/14 15:38	1
trans-1,3-Dichloropropene	<5.6		5.6	1.0	ug/Kg	☼		08/01/14 15:38	1
1,1,1-Trichloroethane	<5.6		5.6	0.84	ug/Kg	☼		08/01/14 15:38	1
1,1,2-Trichloroethane	<5.6		5.6	0.77	ug/Kg	☼		08/01/14 15:38	1
Trichloroethene	<5.6		5.6	0.93	ug/Kg	☼		08/01/14 15:38	1
Vinyl chloride	<5.6		5.6	1.2	ug/Kg	☼		08/01/14 15:38	1
Xylenes, Total	<11		11	0.51	ug/Kg	☼		08/01/14 15:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122		08/01/14 15:38	1
Dibromofluoromethane	105		75 - 120		08/01/14 15:38	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134		08/01/14 15:38	1
Toluene-d8 (Surr)	97		75 - 122		08/01/14 15:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<180		180	39	ug/Kg	☼	08/11/14 15:11	08/12/14 18:46	1
1,2-Dichlorobenzene	<180		180	43	ug/Kg	☼	08/11/14 15:11	08/12/14 18:46	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	08/11/14 15:11	08/12/14 18:46	1
1,4-Dichlorobenzene	<180		180	46	ug/Kg	☼	08/11/14 15:11	08/12/14 18:46	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	08/11/14 15:11	08/12/14 18:46	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81564-1

**Client Sample ID: VL-2(0-6)-073014**

**Lab Sample ID: 500-81564-5**

**Date Collected: 07/30/14 11:00**

**Matrix: Solid**

**Date Received: 07/31/14 16:20**

**Percent Solids: 88.9**

**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	82	ug/Kg	☼	08/11/14 15:11	08/12/14 18:46	1
2,4,6-Trichlorophenol	<360		360	120	ug/Kg	☼	08/11/14 15:11	08/12/14 18:46	1
2,4-Dichlorophenol	<360		360	86	ug/Kg	☼	08/11/14 15:11	08/12/14 18:46	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	08/11/14 15:11	08/12/14 18:46	1
2,4-Dinitrophenol	<730		730	640	ug/Kg	☼	08/11/14 15:11	08/12/14 18:46	1
2,4-Dinitrotoluene	<180		180	57	ug/Kg	☼	08/11/14 15:11	08/12/14 18:46	1
2,6-Dinitrotoluene	<180		180	71	ug/Kg	☼	08/11/14 15:11	08/12/14 18:46	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	08/11/14 15:11	08/12/14 18:46	1
2-Chlorophenol	<180		180	62	ug/Kg	☼	08/11/14 15:11	08/12/14 18:46	1
2-Methylnaphthalene	<36		36	6.6	ug/Kg	☼	08/11/14 15:11	08/12/14 18:46	1
2-Methylphenol	<180		180	58	ug/Kg	☼	08/11/14 15:11	08/12/14 18:46	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	08/11/14 15:11	08/12/14 18:46	1
2-Nitrophenol	<360		360	85	ug/Kg	☼	08/11/14 15:11	08/12/14 18:46	1
3 & 4 Methylphenol	<180		180	60	ug/Kg	☼	08/11/14 15:11	08/12/14 18:46	1
3,3'-Dichlorobenzidine	<180		180	50	ug/Kg	☼	08/11/14 15:11	08/12/14 18:46	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	08/11/14 15:11	08/12/14 18:46	1
4,6-Dinitro-2-methylphenol	<360		360	290	ug/Kg	☼	08/11/14 15:11	08/12/14 18:46	1
4-Bromophenyl phenyl ether	<180		180	48	ug/Kg	☼	08/11/14 15:11	08/12/14 18:46	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	08/11/14 15:11	08/12/14 18:46	1
4-Chloroaniline	<730		730	170	ug/Kg	☼	08/11/14 15:11	08/12/14 18:46	1
4-Chlorophenyl phenyl ether	<180		180	42	ug/Kg	☼	08/11/14 15:11	08/12/14 18:46	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	08/11/14 15:11	08/12/14 18:46	1
4-Nitrophenol	<730		730	340	ug/Kg	☼	08/11/14 15:11	08/12/14 18:46	1
Acenaphthene	<36		36	6.5	ug/Kg	☼	08/11/14 15:11	08/12/14 18:46	1
Acenaphthylene	<36		36	4.8	ug/Kg	☼	08/11/14 15:11	08/12/14 18:46	1
Anthracene	<36		36	6.0	ug/Kg	☼	08/11/14 15:11	08/12/14 18:46	1
<b>Benzo[a]anthracene</b>	<b>49</b>		36	4.9	ug/Kg	☼	08/11/14 15:11	08/12/14 18:46	1
<b>Benzo[a]pyrene</b>	<b>55</b>		36	7.0	ug/Kg	☼	08/11/14 15:11	08/12/14 18:46	1
<b>Benzo[b]fluoranthene</b>	<b>75</b>		36	7.8	ug/Kg	☼	08/11/14 15:11	08/12/14 18:46	1
<b>Benzo[g,h,i]perylene</b>	<b>75</b>		36	12	ug/Kg	☼	08/11/14 15:11	08/12/14 18:46	1
<b>Benzo[k]fluoranthene</b>	<b>29 J</b>		36	11	ug/Kg	☼	08/11/14 15:11	08/12/14 18:46	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	08/11/14 15:11	08/12/14 18:46	1
Bis(2-chloroethyl)ether	<180		180	54	ug/Kg	☼	08/11/14 15:11	08/12/14 18:46	1
<b>Bis(2-ethylhexyl) phthalate</b>	<b>130 J</b>		180	66	ug/Kg	☼	08/11/14 15:11	08/12/14 18:46	1
Butyl benzyl phthalate	<180		180	69	ug/Kg	☼	08/11/14 15:11	08/12/14 18:46	1
Carbazole	<180 *		180	93	ug/Kg	☼	08/11/14 15:11	08/12/14 18:46	1
<b>Chrysene</b>	<b>69 *</b>		36	9.8	ug/Kg	☼	08/11/14 15:11	08/12/14 18:46	1
<b>Dibenz(a,h)anthracene</b>	<b>8.9 J</b>		36	7.0	ug/Kg	☼	08/11/14 15:11	08/12/14 18:46	1
Dibenzofuran	<180		180	42	ug/Kg	☼	08/11/14 15:11	08/12/14 18:46	1
Diethyl phthalate	<180		180	61	ug/Kg	☼	08/11/14 15:11	08/12/14 18:46	1
Dimethyl phthalate	<180		180	47	ug/Kg	☼	08/11/14 15:11	08/12/14 18:46	1
Di-n-butyl phthalate	<180		180	55	ug/Kg	☼	08/11/14 15:11	08/12/14 18:46	1
Di-n-octyl phthalate	<180		180	59	ug/Kg	☼	08/11/14 15:11	08/12/14 18:46	1
<b>Fluoranthene</b>	<b>82</b>		36	6.7	ug/Kg	☼	08/11/14 15:11	08/12/14 18:46	1
Fluorene	<36		36	5.1	ug/Kg	☼	08/11/14 15:11	08/12/14 18:46	1
Hexachlorobenzene	<73		73	8.4	ug/Kg	☼	08/11/14 15:11	08/12/14 18:46	1
Hexachlorobutadiene	<180		180	57	ug/Kg	☼	08/11/14 15:11	08/12/14 18:46	1
Hexachlorocyclopentadiene	<730		730	210	ug/Kg	☼	08/11/14 15:11	08/12/14 18:46	1
Hexachloroethane	<180		180	55	ug/Kg	☼	08/11/14 15:11	08/12/14 18:46	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81564-1

**Client Sample ID: VL-2(0-6)-073014**

**Lab Sample ID: 500-81564-5**

**Date Collected: 07/30/14 11:00**

**Matrix: Solid**

**Date Received: 07/31/14 16:20**

**Percent Solids: 88.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Indeno[1,2,3-cd]pyrene</b>	<b>43</b>	*	36	9.3	ug/Kg	☼	08/11/14 15:11	08/12/14 18:46	1
Isophorone	<180		180	40	ug/Kg	☼	08/11/14 15:11	08/12/14 18:46	1
Naphthalene	<36		36	5.5	ug/Kg	☼	08/11/14 15:11	08/12/14 18:46	1
Nitrobenzene	<36		36	9.0	ug/Kg	☼	08/11/14 15:11	08/12/14 18:46	1
N-Nitrosodi-n-propylamine	<180		180	44	ug/Kg	☼	08/11/14 15:11	08/12/14 18:46	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	08/11/14 15:11	08/12/14 18:46	1
Pentachlorophenol	<730		730	580	ug/Kg	☼	08/11/14 15:11	08/12/14 18:46	1
<b>Phenanthrene</b>	<b>45</b>		36	5.0	ug/Kg	☼	08/11/14 15:11	08/12/14 18:46	1
Phenol	<180		180	80	ug/Kg	☼	08/11/14 15:11	08/12/14 18:46	1
<b>Pyrene</b>	<b>150</b>	*	36	7.2	ug/Kg	☼	08/11/14 15:11	08/12/14 18:46	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2,4,6-Tribromophenol	64		35 - 137				08/11/14 15:11	08/12/14 18:46	1
2-Fluorobiphenyl	66		25 - 119				08/11/14 15:11	08/12/14 18:46	1
2-Fluorophenol	62		25 - 110				08/11/14 15:11	08/12/14 18:46	1
Nitrobenzene-d5	54		25 - 115				08/11/14 15:11	08/12/14 18:46	1
Phenol-d5	72		31 - 110				08/11/14 15:11	08/12/14 18:46	1
Terphenyl-d14	100		36 - 134				08/11/14 15:11	08/12/14 18:46	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		08/08/14 08:45	08/08/14 19:30	1
<b>Barium</b>	<b>0.53</b>		0.50	0.050	mg/L		08/08/14 08:45	08/08/14 19:30	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/08/14 08:45	08/08/14 19:30	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/08/14 08:45	08/08/14 19:30	1
Chromium	<0.025		0.025	0.010	mg/L		08/08/14 08:45	08/08/14 19:30	1
Cobalt	<0.025		0.025	0.010	mg/L		08/08/14 08:45	08/08/14 19:30	1
<b>Copper</b>	<b>0.034</b>		0.025	0.010	mg/L		08/08/14 08:45	08/08/14 19:30	1
Iron	<0.20		0.20	0.20	mg/L		08/08/14 08:45	08/08/14 19:30	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/08/14 08:45	08/08/14 19:30	1
<b>Manganese</b>	<b>1.1</b>		0.025	0.010	mg/L		08/08/14 08:45	08/08/14 19:30	1
<b>Nickel</b>	<b>0.013</b>	J	0.025	0.010	mg/L		08/08/14 08:45	08/08/14 19:30	1
Selenium	<0.050		0.050	0.010	mg/L		08/08/14 08:45	08/08/14 19:30	1
Silver	<0.025		0.025	0.010	mg/L		08/08/14 08:45	08/08/14 19:30	1
<b>Zinc</b>	<b>0.32</b>		0.10	0.020	mg/L		08/08/14 08:45	08/08/14 19:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		08/06/14 09:30	08/07/14 01:51	1
<b>Barium</b>	<b>0.19</b>	J	0.50	0.050	mg/L		08/06/14 09:30	08/07/14 01:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/06/14 09:30	08/07/14 01:51	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/06/14 09:30	08/07/14 01:51	1
<b>Chromium</b>	<b>0.031</b>		0.025	0.010	mg/L		08/06/14 09:30	08/07/14 01:51	1
Cobalt	<0.025		0.025	0.010	mg/L		08/06/14 09:30	08/07/14 01:51	1
<b>Copper</b>	<b>0.055</b>		0.025	0.010	mg/L		08/06/14 09:30	08/07/14 01:51	1
<b>Iron</b>	<b>29</b>		0.20	0.20	mg/L		08/06/14 09:30	08/07/14 01:51	1
<b>Lead</b>	<b>0.056</b>		0.0075	0.0075	mg/L		08/06/14 09:30	08/07/14 01:51	1
<b>Manganese</b>	<b>0.25</b>		0.025	0.010	mg/L		08/06/14 09:30	08/07/14 01:51	1
<b>Nickel</b>	<b>0.032</b>		0.025	0.010	mg/L		08/06/14 09:30	08/07/14 01:51	1
Selenium	<0.050		0.050	0.010	mg/L		08/06/14 09:30	08/07/14 01:51	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81564-1

**Client Sample ID: VL-2(0-6)-073014**

**Lab Sample ID: 500-81564-5**

Date Collected: 07/30/14 11:00

Matrix: Solid

Date Received: 07/31/14 16:20

**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		08/06/14 09:30	08/07/14 01:51	1
Zinc	0.11	B	0.10	0.020	mg/L		08/06/14 09:30	08/07/14 01:51	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.45	mg/Kg	☼	08/06/14 17:05	08/07/14 21:45	1
Arsenic	5.8		0.56	0.11	mg/Kg	☼	08/06/14 17:05	08/07/14 21:45	1
Barium	33		0.56	0.060	mg/Kg	☼	08/06/14 17:05	08/07/14 21:45	1
Beryllium	0.35		0.22	0.045	mg/Kg	☼	08/06/14 17:05	08/07/14 21:45	1
Cadmium	0.69		0.11	0.014	mg/Kg	☼	08/06/14 17:05	08/07/14 21:45	1
Calcium	90000	B	110	30	mg/Kg	☼	08/06/14 17:05	08/09/14 07:15	10
Chromium	12		0.56	0.065	mg/Kg	☼	08/06/14 17:05	08/07/14 21:45	1
Cobalt	6.4		0.28	0.056	mg/Kg	☼	08/06/14 17:05	08/07/14 21:45	1
Copper	24		0.56	0.11	mg/Kg	☼	08/06/14 17:05	08/07/14 21:45	1
Iron	14000		11	4.6	mg/Kg	☼	08/06/14 17:05	08/07/14 21:45	1
Lead	49		0.28	0.084	mg/Kg	☼	08/06/14 17:05	08/07/14 21:45	1
Magnesium	44000	B	5.6	1.2	mg/Kg	☼	08/06/14 17:05	08/07/14 21:45	1
Manganese	370		0.56	0.11	mg/Kg	☼	08/06/14 17:05	08/07/14 21:45	1
Nickel	15		0.56	0.11	mg/Kg	☼	08/06/14 17:05	08/07/14 21:45	1
Potassium	1100		28	1.7	mg/Kg	☼	08/06/14 17:05	08/07/14 21:45	1
Selenium	<0.56		0.56	0.20	mg/Kg	☼	08/06/14 17:05	08/07/14 21:45	1
Silver	0.045	J B	0.28	0.020	mg/Kg	☼	08/06/14 17:05	08/07/14 21:45	1
Sodium	760		56	7.5	mg/Kg	☼	08/06/14 17:05	08/07/14 21:45	1
Thallium	0.26	J	0.56	0.24	mg/Kg	☼	08/06/14 17:05	08/07/14 21:45	1
Vanadium	15	B	0.28	0.042	mg/Kg	☼	08/06/14 17:05	08/07/14 21:45	1
Zinc	52		1.1	0.23	mg/Kg	☼	08/06/14 17:05	08/07/14 21:45	1

**Method: 7470A - Mercury (CVAA) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		08/08/14 12:00	08/11/14 10:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20		0.20	0.20	ug/L		08/06/14 12:00	08/07/14 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	20		19	7.3	ug/Kg	☼	08/06/14 13:00	08/07/14 10:05	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.83		0.200	0.200	SU			08/06/14 14:58	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81564-1

**Client Sample ID: VL-2(6-12)-073014**

**Lab Sample ID: 500-81564-6**

**Date Collected: 07/30/14 11:00**

**Matrix: Solid**

**Date Received: 07/31/14 16:20**

**Percent Solids: 73.7**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	28		6.8	2.9	ug/Kg	☼		08/01/14 16:01	1
Benzene	<6.8		6.8	0.93	ug/Kg	☼		08/01/14 16:01	1
Bromodichloromethane	<6.8		6.8	1.2	ug/Kg	☼		08/01/14 16:01	1
Bromoform	<6.8		6.8	1.6	ug/Kg	☼		08/01/14 16:01	1
Bromomethane	<6.8		6.8	2.0	ug/Kg	☼		08/01/14 16:01	1
Carbon disulfide	<6.8		6.8	1.0	ug/Kg	☼		08/01/14 16:01	1
Carbon tetrachloride	<6.8		6.8	1.2	ug/Kg	☼		08/01/14 16:01	1
Chlorobenzene	<6.8		6.8	0.69	ug/Kg	☼		08/01/14 16:01	1
Chloroethane	<6.8		6.8	1.8	ug/Kg	☼		08/01/14 16:01	1
Chloroform	<6.8		6.8	0.78	ug/Kg	☼		08/01/14 16:01	1
Chloromethane	<6.8		6.8	1.4	ug/Kg	☼		08/01/14 16:01	1
cis-1,2-Dichloroethene	<6.8		6.8	0.96	ug/Kg	☼		08/01/14 16:01	1
cis-1,3-Dichloropropene	<6.8		6.8	0.89	ug/Kg	☼		08/01/14 16:01	1
Dibromochloromethane	<6.8		6.8	1.2	ug/Kg	☼		08/01/14 16:01	1
1,1-Dichloroethane	<6.8		6.8	1.1	ug/Kg	☼		08/01/14 16:01	1
1,2-Dichloroethane	<6.8		6.8	1.0	ug/Kg	☼		08/01/14 16:01	1
1,1-Dichloroethene	<6.8		6.8	1.1	ug/Kg	☼		08/01/14 16:01	1
1,2-Dichloropropane	<6.8		6.8	1.0	ug/Kg	☼		08/01/14 16:01	1
1,3-Dichloropropene, Total	<6.8		6.8	0.89	ug/Kg	☼		08/01/14 16:01	1
Ethylbenzene	<6.8		6.8	1.4	ug/Kg	☼		08/01/14 16:01	1
2-Hexanone	<6.8		6.8	2.0	ug/Kg	☼		08/01/14 16:01	1
Methylene Chloride	<6.8		6.8	1.8	ug/Kg	☼		08/01/14 16:01	1
Methyl Ethyl Ketone	<6.8		6.8	2.5	ug/Kg	☼		08/01/14 16:01	1
methyl isobutyl ketone	<6.8		6.8	1.8	ug/Kg	☼		08/01/14 16:01	1
Methyl tert-butyl ether	<6.8		6.8	1.1	ug/Kg	☼		08/01/14 16:01	1
Styrene	<6.8		6.8	0.89	ug/Kg	☼		08/01/14 16:01	1
1,1,1,2-Tetrachloroethane	<6.8		6.8	1.4	ug/Kg	☼		08/01/14 16:01	1
Tetrachloroethene	<6.8		6.8	1.0	ug/Kg	☼		08/01/14 16:01	1
Toluene	<6.8		6.8	0.95	ug/Kg	☼		08/01/14 16:01	1
trans-1,2-Dichloroethene	<6.8		6.8	0.93	ug/Kg	☼		08/01/14 16:01	1
trans-1,3-Dichloropropene	<6.8		6.8	1.2	ug/Kg	☼		08/01/14 16:01	1
1,1,1-Trichloroethane	<6.8		6.8	1.0	ug/Kg	☼		08/01/14 16:01	1
1,1,2-Trichloroethane	<6.8		6.8	0.93	ug/Kg	☼		08/01/14 16:01	1
Trichloroethene	<6.8		6.8	1.1	ug/Kg	☼		08/01/14 16:01	1
Vinyl chloride	<6.8		6.8	1.4	ug/Kg	☼		08/01/14 16:01	1
Xylenes, Total	<14		14	0.61	ug/Kg	☼		08/01/14 16:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 122		08/01/14 16:01	1
Dibromofluoromethane	99		75 - 120		08/01/14 16:01	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134		08/01/14 16:01	1
Toluene-d8 (Surr)	98		75 - 122		08/01/14 16:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<220		220	48	ug/Kg	☼	08/11/14 15:11	08/13/14 15:22	1
1,2-Dichlorobenzene	<220		220	53	ug/Kg	☼	08/11/14 15:11	08/13/14 15:22	1
1,3-Dichlorobenzene	<220		220	50	ug/Kg	☼	08/11/14 15:11	08/13/14 15:22	1
1,4-Dichlorobenzene	<220		220	57	ug/Kg	☼	08/11/14 15:11	08/13/14 15:22	1
2,2'-oxybis[1-chloropropane]	<220		220	51	ug/Kg	☼	08/11/14 15:11	08/13/14 15:22	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81564-1

**Client Sample ID: VL-2(6-12)-073014**

**Lab Sample ID: 500-81564-6**

**Date Collected: 07/30/14 11:00**

**Matrix: Solid**

**Date Received: 07/31/14 16:20**

**Percent Solids: 73.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<440		440	100	ug/Kg	☼	08/11/14 15:11	08/13/14 15:22	1
2,4,6-Trichlorophenol	<440		440	150	ug/Kg	☼	08/11/14 15:11	08/13/14 15:22	1
2,4-Dichlorophenol	<440		440	110	ug/Kg	☼	08/11/14 15:11	08/13/14 15:22	1
2,4-Dimethylphenol	<440		440	170	ug/Kg	☼	08/11/14 15:11	08/13/14 15:22	1
2,4-Dinitrophenol	<900		900	780	ug/Kg	☼	08/11/14 15:11	08/13/14 15:22	1
2,4-Dinitrotoluene	<220		220	71	ug/Kg	☼	08/11/14 15:11	08/13/14 15:22	1
2,6-Dinitrotoluene	<220		220	87	ug/Kg	☼	08/11/14 15:11	08/13/14 15:22	1
2-Chloronaphthalene	<220		220	49	ug/Kg	☼	08/11/14 15:11	08/13/14 15:22	1
2-Chlorophenol	<220		220	76	ug/Kg	☼	08/11/14 15:11	08/13/14 15:22	1
<b>2-Methylnaphthalene</b>	<b>18</b>	<b>J</b>	44	8.2	ug/Kg	☼	08/11/14 15:11	08/13/14 15:22	1
2-Methylphenol	<220		220	71	ug/Kg	☼	08/11/14 15:11	08/13/14 15:22	1
2-Nitroaniline	<220		220	60	ug/Kg	☼	08/11/14 15:11	08/13/14 15:22	1
2-Nitrophenol	<440		440	100	ug/Kg	☼	08/11/14 15:11	08/13/14 15:22	1
3 & 4 Methylphenol	<220		220	74	ug/Kg	☼	08/11/14 15:11	08/13/14 15:22	1
3,3'-Dichlorobenzidine	<220		220	62	ug/Kg	☼	08/11/14 15:11	08/13/14 15:22	1
3-Nitroaniline	<440		440	140	ug/Kg	☼	08/11/14 15:11	08/13/14 15:22	1
4,6-Dinitro-2-methylphenol	<440		440	360	ug/Kg	☼	08/11/14 15:11	08/13/14 15:22	1
4-Bromophenyl phenyl ether	<220		220	59	ug/Kg	☼	08/11/14 15:11	08/13/14 15:22	1
4-Chloro-3-methylphenol	<440		440	150	ug/Kg	☼	08/11/14 15:11	08/13/14 15:22	1
4-Chloroaniline	<900		900	210	ug/Kg	☼	08/11/14 15:11	08/13/14 15:22	1
4-Chlorophenyl phenyl ether	<220		220	52	ug/Kg	☼	08/11/14 15:11	08/13/14 15:22	1
4-Nitroaniline	<440		440	190	ug/Kg	☼	08/11/14 15:11	08/13/14 15:22	1
4-Nitrophenol	<900		900	420	ug/Kg	☼	08/11/14 15:11	08/13/14 15:22	1
Acenaphthene	<44		44	8.0	ug/Kg	☼	08/11/14 15:11	08/13/14 15:22	1
Acenaphthylene	<44		44	5.9	ug/Kg	☼	08/11/14 15:11	08/13/14 15:22	1
<b>Anthracene</b>	<b>12</b>	<b>J</b>	44	7.4	ug/Kg	☼	08/11/14 15:11	08/13/14 15:22	1
<b>Benzo[a]anthracene</b>	<b>48</b>		44	6.0	ug/Kg	☼	08/11/14 15:11	08/13/14 15:22	1
<b>Benzo[a]pyrene</b>	<b>64</b>		44	8.6	ug/Kg	☼	08/11/14 15:11	08/13/14 15:22	1
<b>Benzo[b]fluoranthene</b>	<b>42</b>	<b>J</b>	44	9.6	ug/Kg	☼	08/11/14 15:11	08/13/14 15:22	1
<b>Benzo[g,h,i]perylene</b>	<b>82</b>		44	14	ug/Kg	☼	08/11/14 15:11	08/13/14 15:22	1
<b>Benzo[k]fluoranthene</b>	<b>20</b>	<b>J</b>	44	13	ug/Kg	☼	08/11/14 15:11	08/13/14 15:22	1
Bis(2-chloroethoxy)methane	<220		220	45	ug/Kg	☼	08/11/14 15:11	08/13/14 15:22	1
Bis(2-chloroethyl)ether	<220		220	67	ug/Kg	☼	08/11/14 15:11	08/13/14 15:22	1
<b>Bis(2-ethylhexyl) phthalate</b>	<b>430</b>		220	81	ug/Kg	☼	08/11/14 15:11	08/13/14 15:22	1
Butyl benzyl phthalate	<220		220	84	ug/Kg	☼	08/11/14 15:11	08/13/14 15:22	1
Carbazole	<220	*	220	110	ug/Kg	☼	08/11/14 15:11	08/13/14 15:22	1
<b>Chrysene</b>	<b>63</b>	<b>*</b>	44	12	ug/Kg	☼	08/11/14 15:11	08/13/14 15:22	1
Dibenz(a,h)anthracene	<44		44	8.6	ug/Kg	☼	08/11/14 15:11	08/13/14 15:22	1
Dibenzofuran	<220		220	52	ug/Kg	☼	08/11/14 15:11	08/13/14 15:22	1
Diethyl phthalate	<220		220	75	ug/Kg	☼	08/11/14 15:11	08/13/14 15:22	1
Dimethyl phthalate	<220		220	58	ug/Kg	☼	08/11/14 15:11	08/13/14 15:22	1
Di-n-butyl phthalate	<220		220	68	ug/Kg	☼	08/11/14 15:11	08/13/14 15:22	1
Di-n-octyl phthalate	<220		220	72	ug/Kg	☼	08/11/14 15:11	08/13/14 15:22	1
<b>Fluoranthene</b>	<b>63</b>		44	8.2	ug/Kg	☼	08/11/14 15:11	08/13/14 15:22	1
Fluorene	<44		44	6.2	ug/Kg	☼	08/11/14 15:11	08/13/14 15:22	1
Hexachlorobenzene	<90		90	10	ug/Kg	☼	08/11/14 15:11	08/13/14 15:22	1
Hexachlorobutadiene	<220		220	70	ug/Kg	☼	08/11/14 15:11	08/13/14 15:22	1
Hexachlorocyclopentadiene	<900		900	260	ug/Kg	☼	08/11/14 15:11	08/13/14 15:22	1
Hexachloroethane	<220		220	68	ug/Kg	☼	08/11/14 15:11	08/13/14 15:22	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81564-1

**Client Sample ID: VL-2(6-12)-073014**

**Lab Sample ID: 500-81564-6**

**Date Collected: 07/30/14 11:00**

**Matrix: Solid**

**Date Received: 07/31/14 16:20**

**Percent Solids: 73.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Indeno[1,2,3-cd]pyrene</b>	<b>26</b>	<b>J *</b>	44	12	ug/Kg	☼	08/11/14 15:11	08/13/14 15:22	1
Isophorone	<220		220	50	ug/Kg	☼	08/11/14 15:11	08/13/14 15:22	1
Naphthalene	<44		44	6.8	ug/Kg	☼	08/11/14 15:11	08/13/14 15:22	1
Nitrobenzene	<44		44	11	ug/Kg	☼	08/11/14 15:11	08/13/14 15:22	1
N-Nitrosodi-n-propylamine	<220		220	54	ug/Kg	☼	08/11/14 15:11	08/13/14 15:22	1
N-Nitrosodiphenylamine	<220		220	52	ug/Kg	☼	08/11/14 15:11	08/13/14 15:22	1
Pentachlorophenol	<900		900	710	ug/Kg	☼	08/11/14 15:11	08/13/14 15:22	1
<b>Phenanthrene</b>	<b>51</b>		44	6.2	ug/Kg	☼	08/11/14 15:11	08/13/14 15:22	1
Phenol	<220		220	99	ug/Kg	☼	08/11/14 15:11	08/13/14 15:22	1
<b>Pyrene</b>	<b>100</b>	<b>*</b>	44	8.8	ug/Kg	☼	08/11/14 15:11	08/13/14 15:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	77		35 - 137				08/11/14 15:11	08/13/14 15:22	1
2-Fluorobiphenyl	41		25 - 119				08/11/14 15:11	08/13/14 15:22	1
2-Fluorophenol	34		25 - 110				08/11/14 15:11	08/13/14 15:22	1
Nitrobenzene-d5	53		25 - 115				08/11/14 15:11	08/13/14 15:22	1
Phenol-d5	34		31 - 110				08/11/14 15:11	08/13/14 15:22	1
Terphenyl-d14	53		36 - 134				08/11/14 15:11	08/13/14 15:22	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		08/08/14 08:45	08/08/14 19:36	1
<b>Barium</b>	<b>0.71</b>		0.50	0.050	mg/L		08/08/14 08:45	08/08/14 19:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/08/14 08:45	08/08/14 19:36	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/08/14 08:45	08/08/14 19:36	1
<b>Chromium</b>	<b>0.010</b>	<b>J</b>	0.025	0.010	mg/L		08/08/14 08:45	08/08/14 19:36	1
<b>Cobalt</b>	<b>0.024</b>	<b>J</b>	0.025	0.010	mg/L		08/08/14 08:45	08/08/14 19:36	1
<b>Copper</b>	<b>0.039</b>		0.025	0.010	mg/L		08/08/14 08:45	08/08/14 19:36	1
<b>Iron</b>	<b>0.23</b>		0.20	0.20	mg/L		08/08/14 08:45	08/08/14 19:36	1
<b>Lead</b>	<b>0.0090</b>		0.0075	0.0075	mg/L		08/08/14 08:45	08/08/14 19:36	1
<b>Manganese</b>	<b>4.9</b>		0.025	0.010	mg/L		08/08/14 08:45	08/08/14 19:36	1
<b>Nickel</b>	<b>0.026</b>		0.025	0.010	mg/L		08/08/14 08:45	08/08/14 19:36	1
Selenium	<0.050		0.050	0.010	mg/L		08/08/14 08:45	08/08/14 19:36	1
Silver	<0.025		0.025	0.010	mg/L		08/08/14 08:45	08/08/14 19:36	1
<b>Zinc</b>	<b>0.50</b>		0.10	0.020	mg/L		08/08/14 08:45	08/08/14 19:36	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		08/06/14 09:30	08/07/14 02:13	1
<b>Barium</b>	<b>0.092</b>	<b>J</b>	0.50	0.050	mg/L		08/06/14 09:30	08/07/14 02:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/06/14 09:30	08/07/14 02:13	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/06/14 09:30	08/07/14 02:13	1
Chromium	<0.025		0.025	0.010	mg/L		08/06/14 09:30	08/07/14 02:13	1
Cobalt	<0.025		0.025	0.010	mg/L		08/06/14 09:30	08/07/14 02:13	1
<b>Copper</b>	<b>0.021</b>	<b>J</b>	0.025	0.010	mg/L		08/06/14 09:30	08/07/14 02:13	1
<b>Iron</b>	<b>10</b>		0.20	0.20	mg/L		08/06/14 09:30	08/07/14 02:13	1
<b>Lead</b>	<b>0.021</b>		0.0075	0.0075	mg/L		08/06/14 09:30	08/07/14 02:13	1
<b>Manganese</b>	<b>0.14</b>		0.025	0.010	mg/L		08/06/14 09:30	08/07/14 02:13	1
<b>Nickel</b>	<b>0.010</b>	<b>J</b>	0.025	0.010	mg/L		08/06/14 09:30	08/07/14 02:13	1
Selenium	<0.050		0.050	0.010	mg/L		08/06/14 09:30	08/07/14 02:13	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81564-1

**Client Sample ID: VL-2(6-12)-073014**

**Lab Sample ID: 500-81564-6**

Date Collected: 07/30/14 11:00

Matrix: Solid

Date Received: 07/31/14 16:20

**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		08/06/14 09:30	08/07/14 02:13	1
Zinc	0.038	J B	0.10	0.020	mg/L		08/06/14 09:30	08/07/14 02:13	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.3		1.3	0.51	mg/Kg	☼	08/06/14 17:05	08/07/14 21:51	1
Arsenic	8.1		0.63	0.13	mg/Kg	☼	08/06/14 17:05	08/07/14 21:51	1
Barium	59		0.63	0.067	mg/Kg	☼	08/06/14 17:05	08/07/14 21:51	1
Beryllium	0.66		0.25	0.050	mg/Kg	☼	08/06/14 17:05	08/07/14 21:51	1
Cadmium	0.88		0.13	0.016	mg/Kg	☼	08/06/14 17:05	08/07/14 21:51	1
Calcium	35000	B	13	3.4	mg/Kg	☼	08/06/14 17:05	08/07/14 21:51	1
Chromium	18		0.63	0.073	mg/Kg	☼	08/06/14 17:05	08/07/14 21:51	1
Cobalt	10		0.31	0.063	mg/Kg	☼	08/06/14 17:05	08/07/14 21:51	1
Copper	32		0.63	0.13	mg/Kg	☼	08/06/14 17:05	08/07/14 21:51	1
Iron	22000		13	5.2	mg/Kg	☼	08/06/14 17:05	08/07/14 21:51	1
Lead	28		0.31	0.094	mg/Kg	☼	08/06/14 17:05	08/07/14 21:51	1
Magnesium	22000	B	6.3	1.3	mg/Kg	☼	08/06/14 17:05	08/07/14 21:51	1
Manganese	440		0.63	0.13	mg/Kg	☼	08/06/14 17:05	08/07/14 21:51	1
Nickel	24		0.63	0.13	mg/Kg	☼	08/06/14 17:05	08/07/14 21:51	1
Potassium	2000		31	1.9	mg/Kg	☼	08/06/14 17:05	08/07/14 21:51	1
Selenium	<0.63		0.63	0.22	mg/Kg	☼	08/06/14 17:05	08/07/14 21:51	1
Silver	0.052	J B	0.31	0.023	mg/Kg	☼	08/06/14 17:05	08/07/14 21:51	1
Sodium	1600		63	8.4	mg/Kg	☼	08/06/14 17:05	08/07/14 21:51	1
Thallium	0.42	J	0.63	0.27	mg/Kg	☼	08/06/14 17:05	08/07/14 21:51	1
Vanadium	23	B	0.31	0.047	mg/Kg	☼	08/06/14 17:05	08/07/14 21:51	1
Zinc	86		1.3	0.25	mg/Kg	☼	08/06/14 17:05	08/07/14 21:51	1

**Method: 7470A - Mercury (CVAA) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		08/08/14 12:00	08/11/14 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		08/06/14 12:00	08/07/14 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	67		22	8.8	ug/Kg	☼	08/06/14 13:00	08/07/14 10:07	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.92		0.200	0.200	SU			08/06/14 18:30	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81564-1

**Client Sample ID: VL-2(12-19)-073014**

**Lab Sample ID: 500-81564-7**

**Date Collected: 07/30/14 11:00**

**Matrix: Solid**

**Date Received: 07/31/14 16:20**

**Percent Solids: 57.1**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>270</b>		8.8	3.8	ug/Kg	☼		08/01/14 16:24	1
Benzene	<8.8		8.8	1.2	ug/Kg	☼		08/01/14 16:24	1
Bromodichloromethane	<8.8		8.8	1.5	ug/Kg	☼		08/01/14 16:24	1
Bromoform	<8.8		8.8	2.0	ug/Kg	☼		08/01/14 16:24	1
Bromomethane	<8.8		8.8	2.6	ug/Kg	☼		08/01/14 16:24	1
Carbon disulfide	<8.8		8.8	1.3	ug/Kg	☼		08/01/14 16:24	1
Carbon tetrachloride	<8.8		8.8	1.6	ug/Kg	☼		08/01/14 16:24	1
Chlorobenzene	<8.8		8.8	0.89	ug/Kg	☼		08/01/14 16:24	1
Chloroethane	<8.8		8.8	2.4	ug/Kg	☼		08/01/14 16:24	1
Chloroform	<8.8		8.8	1.0	ug/Kg	☼		08/01/14 16:24	1
Chloromethane	<8.8		8.8	1.8	ug/Kg	☼		08/01/14 16:24	1
cis-1,2-Dichloroethene	<8.8		8.8	1.2	ug/Kg	☼		08/01/14 16:24	1
cis-1,3-Dichloropropene	<8.8		8.8	1.1	ug/Kg	☼		08/01/14 16:24	1
Dibromochloromethane	<8.8		8.8	1.5	ug/Kg	☼		08/01/14 16:24	1
1,1-Dichloroethane	<8.8		8.8	1.4	ug/Kg	☼		08/01/14 16:24	1
1,2-Dichloroethane	<8.8		8.8	1.3	ug/Kg	☼		08/01/14 16:24	1
1,1-Dichloroethene	<8.8		8.8	1.4	ug/Kg	☼		08/01/14 16:24	1
1,2-Dichloropropane	<8.8		8.8	1.3	ug/Kg	☼		08/01/14 16:24	1
1,3-Dichloropropene, Total	<8.8		8.8	1.1	ug/Kg	☼		08/01/14 16:24	1
Ethylbenzene	<8.8		8.8	1.8	ug/Kg	☼		08/01/14 16:24	1
2-Hexanone	<8.8		8.8	2.5	ug/Kg	☼		08/01/14 16:24	1
Methylene Chloride	<8.8		8.8	2.4	ug/Kg	☼		08/01/14 16:24	1
<b>Methyl Ethyl Ketone</b>	<b>54</b>		8.8	3.2	ug/Kg	☼		08/01/14 16:24	1
methyl isobutyl ketone	<8.8		8.8	2.3	ug/Kg	☼		08/01/14 16:24	1
Methyl tert-butyl ether	<8.8		8.8	1.4	ug/Kg	☼		08/01/14 16:24	1
Styrene	<8.8		8.8	1.1	ug/Kg	☼		08/01/14 16:24	1
1,1,1,2-Tetrachloroethane	<8.8		8.8	1.8	ug/Kg	☼		08/01/14 16:24	1
Tetrachloroethene	<8.8		8.8	1.3	ug/Kg	☼		08/01/14 16:24	1
Toluene	<8.8		8.8	1.2	ug/Kg	☼		08/01/14 16:24	1
trans-1,2-Dichloroethene	<8.8		8.8	1.2	ug/Kg	☼		08/01/14 16:24	1
trans-1,3-Dichloropropene	<8.8		8.8	1.6	ug/Kg	☼		08/01/14 16:24	1
1,1,1-Trichloroethane	<8.8		8.8	1.3	ug/Kg	☼		08/01/14 16:24	1
1,1,2-Trichloroethane	<8.8		8.8	1.2	ug/Kg	☼		08/01/14 16:24	1
Trichloroethene	<8.8		8.8	1.4	ug/Kg	☼		08/01/14 16:24	1
Vinyl chloride	<8.8		8.8	1.8	ug/Kg	☼		08/01/14 16:24	1
Xylenes, Total	<18		18	0.79	ug/Kg	☼		08/01/14 16:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122		08/01/14 16:24	1
Dibromofluoromethane	108		75 - 120		08/01/14 16:24	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 134		08/01/14 16:24	1
Toluene-d8 (Surr)	102		75 - 122		08/01/14 16:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<1500		1500	310	ug/Kg	☼	08/11/14 15:11	08/14/14 13:54	5
1,2-Dichlorobenzene	<1500		1500	350	ug/Kg	☼	08/11/14 15:11	08/14/14 13:54	5
1,3-Dichlorobenzene	<1500		1500	330	ug/Kg	☼	08/11/14 15:11	08/14/14 13:54	5
1,4-Dichlorobenzene	<1500		1500	370	ug/Kg	☼	08/11/14 15:11	08/14/14 13:54	5
2,2'-oxybis[1-chloropropane]	<1500		1500	340	ug/Kg	☼	08/11/14 15:11	08/14/14 13:54	5

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81564-1

**Client Sample ID: VL-2(12-19)-073014**

**Lab Sample ID: 500-81564-7**

**Date Collected: 07/30/14 11:00**

**Matrix: Solid**

**Date Received: 07/31/14 16:20**

**Percent Solids: 57.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<2900		2900	660	ug/Kg	☼	08/11/14 15:11	08/14/14 13:54	5
2,4,6-Trichlorophenol	<2900		2900	1000	ug/Kg	☼	08/11/14 15:11	08/14/14 13:54	5
2,4-Dichlorophenol	<2900		2900	690	ug/Kg	☼	08/11/14 15:11	08/14/14 13:54	5
2,4-Dimethylphenol	<2900		2900	1100	ug/Kg	☼	08/11/14 15:11	08/14/14 13:54	5
2,4-Dinitrophenol	<5800		5800	5100	ug/Kg	☼	08/11/14 15:11	08/14/14 13:54	5
2,4-Dinitrotoluene	<1500		1500	460	ug/Kg	☼	08/11/14 15:11	08/14/14 13:54	5
2,6-Dinitrotoluene	<1500		1500	570	ug/Kg	☼	08/11/14 15:11	08/14/14 13:54	5
2-Chloronaphthalene	<1500		1500	320	ug/Kg	☼	08/11/14 15:11	08/14/14 13:54	5
2-Chlorophenol	<1500		1500	490	ug/Kg	☼	08/11/14 15:11	08/14/14 13:54	5
2-Methylnaphthalene	<290		290	53	ug/Kg	☼	08/11/14 15:11	08/14/14 13:54	5
2-Methylphenol	<1500		1500	470	ug/Kg	☼	08/11/14 15:11	08/14/14 13:54	5
2-Nitroaniline	<1500		1500	390	ug/Kg	☼	08/11/14 15:11	08/14/14 13:54	5
2-Nitrophenol	<2900		2900	690	ug/Kg	☼	08/11/14 15:11	08/14/14 13:54	5
3 & 4 Methylphenol	<1500		1500	480	ug/Kg	☼	08/11/14 15:11	08/14/14 13:54	5
3,3'-Dichlorobenzidine	<1500		1500	410	ug/Kg	☼	08/11/14 15:11	08/14/14 13:54	5
3-Nitroaniline	<2900		2900	900	ug/Kg	☼	08/11/14 15:11	08/14/14 13:54	5
4,6-Dinitro-2-methylphenol	<2900		2900	2300	ug/Kg	☼	08/11/14 15:11	08/14/14 13:54	5
4-Bromophenyl phenyl ether	<1500		1500	380	ug/Kg	☼	08/11/14 15:11	08/14/14 13:54	5
4-Chloro-3-methylphenol	<2900		2900	990	ug/Kg	☼	08/11/14 15:11	08/14/14 13:54	5
4-Chloroaniline	<5800		5800	1400	ug/Kg	☼	08/11/14 15:11	08/14/14 13:54	5
4-Chlorophenyl phenyl ether	<1500		1500	340	ug/Kg	☼	08/11/14 15:11	08/14/14 13:54	5
4-Nitroaniline	<2900		2900	1200	ug/Kg	☼	08/11/14 15:11	08/14/14 13:54	5
4-Nitrophenol	<5800		5800	2800	ug/Kg	☼	08/11/14 15:11	08/14/14 13:54	5
Acenaphthene	<290		290	52	ug/Kg	☼	08/11/14 15:11	08/14/14 13:54	5
Acenaphthylene	<290		290	38	ug/Kg	☼	08/11/14 15:11	08/14/14 13:54	5
Anthracene	<290		290	48	ug/Kg	☼	08/11/14 15:11	08/14/14 13:54	5
<b>Benzo[a]anthracene</b>	<b>180</b>	<b>J</b>	290	39	ug/Kg	☼	08/11/14 15:11	08/14/14 13:54	5
<b>Benzo[a]pyrene</b>	<b>200</b>	<b>J</b>	290	56	ug/Kg	☼	08/11/14 15:11	08/14/14 13:54	5
<b>Benzo[b]fluoranthene</b>	<b>67</b>	<b>J</b>	290	63	ug/Kg	☼	08/11/14 15:11	08/14/14 13:54	5
<b>Benzo[g,h,i]perylene</b>	<b>250</b>	<b>J</b>	290	93	ug/Kg	☼	08/11/14 15:11	08/14/14 13:54	5
Benzo[k]fluoranthene	<290		290	85	ug/Kg	☼	08/11/14 15:11	08/14/14 13:54	5
Bis(2-chloroethoxy)methane	<1500		1500	300	ug/Kg	☼	08/11/14 15:11	08/14/14 13:54	5
Bis(2-chloroethyl)ether	<1500		1500	430	ug/Kg	☼	08/11/14 15:11	08/14/14 13:54	5
Bis(2-ethylhexyl) phthalate	<1500		1500	530	ug/Kg	☼	08/11/14 15:11	08/14/14 13:54	5
Butyl benzyl phthalate	<1500		1500	550	ug/Kg	☼	08/11/14 15:11	08/14/14 13:54	5
Carbazole	<1500	*	1500	750	ug/Kg	☼	08/11/14 15:11	08/14/14 13:54	5
<b>Chrysene</b>	<b>270</b>	<b>J *</b>	290	79	ug/Kg	☼	08/11/14 15:11	08/14/14 13:54	5
Dibenz(a,h)anthracene	<290		290	56	ug/Kg	☼	08/11/14 15:11	08/14/14 13:54	5
Dibenzofuran	<1500		1500	340	ug/Kg	☼	08/11/14 15:11	08/14/14 13:54	5
Diethyl phthalate	<1500		1500	490	ug/Kg	☼	08/11/14 15:11	08/14/14 13:54	5
Dimethyl phthalate	<1500		1500	380	ug/Kg	☼	08/11/14 15:11	08/14/14 13:54	5
Di-n-butyl phthalate	<1500		1500	440	ug/Kg	☼	08/11/14 15:11	08/14/14 13:54	5
Di-n-octyl phthalate	<1500		1500	470	ug/Kg	☼	08/11/14 15:11	08/14/14 13:54	5
<b>Fluoranthene</b>	<b>72</b>	<b>J</b>	290	54	ug/Kg	☼	08/11/14 15:11	08/14/14 13:54	5
Fluorene	<290		290	41	ug/Kg	☼	08/11/14 15:11	08/14/14 13:54	5
Hexachlorobenzene	<580		580	67	ug/Kg	☼	08/11/14 15:11	08/14/14 13:54	5
Hexachlorobutadiene	<1500		1500	460	ug/Kg	☼	08/11/14 15:11	08/14/14 13:54	5
Hexachlorocyclopentadiene	<5800		5800	1700	ug/Kg	☼	08/11/14 15:11	08/14/14 13:54	5
Hexachloroethane	<1500		1500	440	ug/Kg	☼	08/11/14 15:11	08/14/14 13:54	5

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81564-1

**Client Sample ID: VL-2(12-19)-073014**

**Lab Sample ID: 500-81564-7**

**Date Collected: 07/30/14 11:00**

**Matrix: Solid**

**Date Received: 07/31/14 16:20**

**Percent Solids: 57.1**

**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	<290	*	290	75	ug/Kg	☼	08/11/14 15:11	08/14/14 13:54	5
Isophorone	<1500		1500	330	ug/Kg	☼	08/11/14 15:11	08/14/14 13:54	5
Naphthalene	<290		290	45	ug/Kg	☼	08/11/14 15:11	08/14/14 13:54	5
Nitrobenzene	<290		290	72	ug/Kg	☼	08/11/14 15:11	08/14/14 13:54	5
N-Nitrosodi-n-propylamine	<1500		1500	350	ug/Kg	☼	08/11/14 15:11	08/14/14 13:54	5
N-Nitrosodiphenylamine	<1500		1500	340	ug/Kg	☼	08/11/14 15:11	08/14/14 13:54	5
Pentachlorophenol	<5800		5800	4700	ug/Kg	☼	08/11/14 15:11	08/14/14 13:54	5
Phenanthrene	<290		290	40	ug/Kg	☼	08/11/14 15:11	08/14/14 13:54	5
Phenol	<1500		1500	640	ug/Kg	☼	08/11/14 15:11	08/14/14 13:54	5
<b>Pyrene</b>	<b>510</b>	*	290	58	ug/Kg	☼	08/11/14 15:11	08/14/14 13:54	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	90		35 - 137	08/11/14 15:11	08/14/14 13:54	5
2-Fluorobiphenyl	55		25 - 119	08/11/14 15:11	08/14/14 13:54	5
2-Fluorophenol	40		25 - 110	08/11/14 15:11	08/14/14 13:54	5
Nitrobenzene-d5	51		25 - 115	08/11/14 15:11	08/14/14 13:54	5
Phenol-d5	45		31 - 110	08/11/14 15:11	08/14/14 13:54	5
Terphenyl-d14	65		36 - 134	08/11/14 15:11	08/14/14 13:54	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		08/08/14 08:45	08/08/14 19:43	1
<b>Barium</b>	<b>0.41</b>	J	0.50	0.050	mg/L		08/08/14 08:45	08/08/14 19:43	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/08/14 08:45	08/08/14 19:43	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/08/14 08:45	08/08/14 19:43	1
Chromium	<0.025		0.025	0.010	mg/L		08/08/14 08:45	08/08/14 19:43	1
Cobalt	<0.025		0.025	0.010	mg/L		08/08/14 08:45	08/08/14 19:43	1
<b>Copper</b>	<b>0.014</b>	J	0.025	0.010	mg/L		08/08/14 08:45	08/08/14 19:43	1
Iron	<0.20		0.20	0.20	mg/L		08/08/14 08:45	08/08/14 19:43	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/08/14 08:45	08/08/14 19:43	1
<b>Manganese</b>	<b>2.2</b>		0.025	0.010	mg/L		08/08/14 08:45	08/08/14 19:43	1
Nickel	<0.025		0.025	0.010	mg/L		08/08/14 08:45	08/08/14 19:43	1
Selenium	<0.050		0.050	0.010	mg/L		08/08/14 08:45	08/08/14 19:43	1
Silver	<0.025		0.025	0.010	mg/L		08/08/14 08:45	08/08/14 19:43	1
<b>Zinc</b>	<b>0.22</b>		0.10	0.020	mg/L		08/08/14 08:45	08/08/14 19:43	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		08/06/14 09:30	08/07/14 02:20	1
<b>Barium</b>	<b>0.081</b>	J	0.50	0.050	mg/L		08/06/14 09:30	08/07/14 02:20	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/06/14 09:30	08/07/14 02:20	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/06/14 09:30	08/07/14 02:20	1
<b>Chromium</b>	<b>0.022</b>	J	0.025	0.010	mg/L		08/06/14 09:30	08/07/14 02:20	1
Cobalt	<0.025		0.025	0.010	mg/L		08/06/14 09:30	08/07/14 02:20	1
<b>Copper</b>	<b>0.030</b>		0.025	0.010	mg/L		08/06/14 09:30	08/07/14 02:20	1
<b>Iron</b>	<b>23</b>		0.20	0.20	mg/L		08/06/14 09:30	08/07/14 02:20	1
<b>Lead</b>	<b>0.023</b>		0.0075	0.0075	mg/L		08/06/14 09:30	08/07/14 02:20	1
<b>Manganese</b>	<b>0.19</b>		0.025	0.010	mg/L		08/06/14 09:30	08/07/14 02:20	1
<b>Nickel</b>	<b>0.024</b>	J	0.025	0.010	mg/L		08/06/14 09:30	08/07/14 02:20	1
Selenium	<0.050		0.050	0.010	mg/L		08/06/14 09:30	08/07/14 02:20	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81564-1

**Client Sample ID: VL-2(12-19)-073014**

**Lab Sample ID: 500-81564-7**

Date Collected: 07/30/14 11:00

Matrix: Solid

Date Received: 07/31/14 16:20

**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		08/06/14 09:30	08/07/14 02:20	1
<b>Zinc</b>	<b>0.079</b>	<b>J B</b>	0.10	0.020	mg/L		08/06/14 09:30	08/07/14 02:20	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.6		1.6	0.66	mg/Kg	☼	08/06/14 17:05	08/07/14 21:58	1
<b>Arsenic</b>	<b>8.7</b>		0.82	0.16	mg/Kg	☼	08/06/14 17:05	08/07/14 21:58	1
<b>Barium</b>	<b>59</b>		0.82	0.087	mg/Kg	☼	08/06/14 17:05	08/07/14 21:58	1
<b>Beryllium</b>	<b>0.64</b>		0.33	0.065	mg/Kg	☼	08/06/14 17:05	08/07/14 21:58	1
<b>Cadmium</b>	<b>1.0</b>		0.16	0.021	mg/Kg	☼	08/06/14 17:05	08/07/14 21:58	1
<b>Calcium</b>	<b>47000</b>	<b>B</b>	16	4.4	mg/Kg	☼	08/06/14 17:05	08/07/14 21:58	1
<b>Chromium</b>	<b>19</b>		0.82	0.095	mg/Kg	☼	08/06/14 17:05	08/07/14 21:58	1
<b>Cobalt</b>	<b>11</b>		0.41	0.082	mg/Kg	☼	08/06/14 17:05	08/07/14 21:58	1
<b>Copper</b>	<b>33</b>		0.82	0.16	mg/Kg	☼	08/06/14 17:05	08/07/14 21:58	1
<b>Iron</b>	<b>26000</b>		16	6.7	mg/Kg	☼	08/06/14 17:05	08/07/14 21:58	1
<b>Lead</b>	<b>25</b>		0.41	0.12	mg/Kg	☼	08/06/14 17:05	08/07/14 21:58	1
<b>Magnesium</b>	<b>30000</b>	<b>B</b>	8.2	1.7	mg/Kg	☼	08/06/14 17:05	08/07/14 21:58	1
<b>Manganese</b>	<b>420</b>		0.82	0.16	mg/Kg	☼	08/06/14 17:05	08/07/14 21:58	1
<b>Nickel</b>	<b>26</b>		0.82	0.16	mg/Kg	☼	08/06/14 17:05	08/07/14 21:58	1
<b>Potassium</b>	<b>2200</b>		41	2.5	mg/Kg	☼	08/06/14 17:05	08/07/14 21:58	1
Selenium	<0.82		0.82	0.29	mg/Kg	☼	08/06/14 17:05	08/07/14 21:58	1
<b>Silver</b>	<b>0.059</b>	<b>J B</b>	0.41	0.030	mg/Kg	☼	08/06/14 17:05	08/07/14 21:58	1
<b>Sodium</b>	<b>1400</b>		82	11	mg/Kg	☼	08/06/14 17:05	08/07/14 21:58	1
<b>Thallium</b>	<b>0.36</b>	<b>J</b>	0.82	0.34	mg/Kg	☼	08/06/14 17:05	08/07/14 21:58	1
<b>Vanadium</b>	<b>24</b>	<b>B</b>	0.41	0.060	mg/Kg	☼	08/06/14 17:05	08/07/14 21:58	1
<b>Zinc</b>	<b>91</b>		1.6	0.33	mg/Kg	☼	08/06/14 17:05	08/07/14 21:58	1

**Method: 7470A - Mercury (CVAA) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		08/08/14 12:00	08/11/14 10:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		08/06/14 12:00	08/07/14 11:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>13</b>	<b>J</b>	28	11	ug/Kg	☼	08/06/14 13:00	08/07/14 10:09	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.76</b>		0.200	0.200	SU			08/06/14 18:37	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81564-1

**Client Sample ID: VL-2(12-19)-073014D**

**Lab Sample ID: 500-81564-8**

**Date Collected: 07/30/14 11:00**

**Matrix: Solid**

**Date Received: 07/31/14 16:20**

**Percent Solids: 44.7**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>190</b>		11	4.8	ug/Kg	☼		08/01/14 16:46	1
Benzene	<11		11	1.5	ug/Kg	☼		08/01/14 16:46	1
Bromodichloromethane	<11		11	1.9	ug/Kg	☼		08/01/14 16:46	1
Bromoform	<11		11	2.6	ug/Kg	☼		08/01/14 16:46	1
Bromomethane	<11		11	3.4	ug/Kg	☼		08/01/14 16:46	1
Carbon disulfide	<11		11	1.7	ug/Kg	☼		08/01/14 16:46	1
Carbon tetrachloride	<11		11	2.0	ug/Kg	☼		08/01/14 16:46	1
Chlorobenzene	<11		11	1.1	ug/Kg	☼		08/01/14 16:46	1
Chloroethane	<11		11	3.0	ug/Kg	☼		08/01/14 16:46	1
Chloroform	<11		11	1.3	ug/Kg	☼		08/01/14 16:46	1
Chloromethane	<11		11	2.4	ug/Kg	☼		08/01/14 16:46	1
cis-1,2-Dichloroethene	<11		11	1.6	ug/Kg	☼		08/01/14 16:46	1
cis-1,3-Dichloropropene	<11		11	1.5	ug/Kg	☼		08/01/14 16:46	1
Dibromochloromethane	<11		11	1.9	ug/Kg	☼		08/01/14 16:46	1
1,1-Dichloroethane	<11		11	1.8	ug/Kg	☼		08/01/14 16:46	1
1,2-Dichloroethane	<11		11	1.7	ug/Kg	☼		08/01/14 16:46	1
1,1-Dichloroethene	<11		11	1.8	ug/Kg	☼		08/01/14 16:46	1
1,2-Dichloropropane	<11		11	1.7	ug/Kg	☼		08/01/14 16:46	1
1,3-Dichloropropene, Total	<11		11	1.5	ug/Kg	☼		08/01/14 16:46	1
Ethylbenzene	<11		11	2.3	ug/Kg	☼		08/01/14 16:46	1
2-Hexanone	<11		11	3.2	ug/Kg	☼		08/01/14 16:46	1
Methylene Chloride	<11		11	3.0	ug/Kg	☼		08/01/14 16:46	1
<b>Methyl Ethyl Ketone</b>	<b>42</b>		11	4.1	ug/Kg	☼		08/01/14 16:46	1
methyl isobutyl ketone	<11		11	2.9	ug/Kg	☼		08/01/14 16:46	1
Methyl tert-butyl ether	<11		11	1.8	ug/Kg	☼		08/01/14 16:46	1
Styrene	<11		11	1.5	ug/Kg	☼		08/01/14 16:46	1
1,1,1,2-Tetrachloroethane	<11		11	2.3	ug/Kg	☼		08/01/14 16:46	1
Tetrachloroethene	<11		11	1.7	ug/Kg	☼		08/01/14 16:46	1
Toluene	<11		11	1.6	ug/Kg	☼		08/01/14 16:46	1
trans-1,2-Dichloroethene	<11		11	1.5	ug/Kg	☼		08/01/14 16:46	1
trans-1,3-Dichloropropene	<11		11	2.0	ug/Kg	☼		08/01/14 16:46	1
1,1,1-Trichloroethane	<11		11	1.7	ug/Kg	☼		08/01/14 16:46	1
1,1,2-Trichloroethane	<11		11	1.5	ug/Kg	☼		08/01/14 16:46	1
Trichloroethene	<11		11	1.8	ug/Kg	☼		08/01/14 16:46	1
Vinyl chloride	<11		11	2.4	ug/Kg	☼		08/01/14 16:46	1
Xylenes, Total	<22		22	1.0	ug/Kg	☼		08/01/14 16:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 122		08/01/14 16:46	1
Dibromofluoromethane	112		75 - 120		08/01/14 16:46	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134		08/01/14 16:46	1
Toluene-d8 (Surr)	97		75 - 122		08/01/14 16:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<1900		1900	400	ug/Kg	☼	08/11/14 15:11	08/14/14 13:36	5
1,2-Dichlorobenzene	<1900		1900	440	ug/Kg	☼	08/11/14 15:11	08/14/14 13:36	5
1,3-Dichlorobenzene	<1900		1900	420	ug/Kg	☼	08/11/14 15:11	08/14/14 13:36	5
1,4-Dichlorobenzene	<1900		1900	470	ug/Kg	☼	08/11/14 15:11	08/14/14 13:36	5
2,2'-oxybis[1-chloropropane]	<1900		1900	430	ug/Kg	☼	08/11/14 15:11	08/14/14 13:36	5

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81564-1

**Client Sample ID: VL-2(12-19)-073014D**

**Lab Sample ID: 500-81564-8**

**Date Collected: 07/30/14 11:00**

**Matrix: Solid**

**Date Received: 07/31/14 16:20**

**Percent Solids: 44.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<3700		3700	850	ug/Kg	☼	08/11/14 15:11	08/14/14 13:36	5
2,4,6-Trichlorophenol	<3700		3700	1300	ug/Kg	☼	08/11/14 15:11	08/14/14 13:36	5
2,4-Dichlorophenol	<3700		3700	880	ug/Kg	☼	08/11/14 15:11	08/14/14 13:36	5
2,4-Dimethylphenol	<3700		3700	1400	ug/Kg	☼	08/11/14 15:11	08/14/14 13:36	5
2,4-Dinitrophenol	<7500		7500	6500	ug/Kg	☼	08/11/14 15:11	08/14/14 13:36	5
2,4-Dinitrotoluene	<1900		1900	590	ug/Kg	☼	08/11/14 15:11	08/14/14 13:36	5
2,6-Dinitrotoluene	<1900		1900	730	ug/Kg	☼	08/11/14 15:11	08/14/14 13:36	5
2-Chloronaphthalene	<1900		1900	410	ug/Kg	☼	08/11/14 15:11	08/14/14 13:36	5
2-Chlorophenol	<1900		1900	630	ug/Kg	☼	08/11/14 15:11	08/14/14 13:36	5
2-Methylnaphthalene	<370		370	68	ug/Kg	☼	08/11/14 15:11	08/14/14 13:36	5
2-Methylphenol	<1900		1900	590	ug/Kg	☼	08/11/14 15:11	08/14/14 13:36	5
2-Nitroaniline	<1900		1900	500	ug/Kg	☼	08/11/14 15:11	08/14/14 13:36	5
2-Nitrophenol	<3700		3700	880	ug/Kg	☼	08/11/14 15:11	08/14/14 13:36	5
3 & 4 Methylphenol	<1900		1900	620	ug/Kg	☼	08/11/14 15:11	08/14/14 13:36	5
3,3'-Dichlorobenzidine	<1900		1900	520	ug/Kg	☼	08/11/14 15:11	08/14/14 13:36	5
3-Nitroaniline	<3700		3700	1100	ug/Kg	☼	08/11/14 15:11	08/14/14 13:36	5
4,6-Dinitro-2-methylphenol	<3700		3700	3000	ug/Kg	☼	08/11/14 15:11	08/14/14 13:36	5
4-Bromophenyl phenyl ether	<1900		1900	490	ug/Kg	☼	08/11/14 15:11	08/14/14 13:36	5
4-Chloro-3-methylphenol	<3700		3700	1300	ug/Kg	☼	08/11/14 15:11	08/14/14 13:36	5
4-Chloroaniline	<7500		7500	1700	ug/Kg	☼	08/11/14 15:11	08/14/14 13:36	5
4-Chlorophenyl phenyl ether	<1900		1900	430	ug/Kg	☼	08/11/14 15:11	08/14/14 13:36	5
4-Nitroaniline	<3700		3700	1500	ug/Kg	☼	08/11/14 15:11	08/14/14 13:36	5
4-Nitrophenol	<7500		7500	3500	ug/Kg	☼	08/11/14 15:11	08/14/14 13:36	5
Acenaphthene	<370		370	67	ug/Kg	☼	08/11/14 15:11	08/14/14 13:36	5
Acenaphthylene	<370		370	49	ug/Kg	☼	08/11/14 15:11	08/14/14 13:36	5
Anthracene	<370		370	62	ug/Kg	☼	08/11/14 15:11	08/14/14 13:36	5
<b>Benzo[a]anthracene</b>	<b>190</b>	<b>J</b>	370	50	ug/Kg	☼	08/11/14 15:11	08/14/14 13:36	5
<b>Benzo[a]pyrene</b>	<b>220</b>	<b>J</b>	370	72	ug/Kg	☼	08/11/14 15:11	08/14/14 13:36	5
<b>Benzo[b]fluoranthene</b>	<b>86</b>	<b>J</b>	370	80	ug/Kg	☼	08/11/14 15:11	08/14/14 13:36	5
<b>Benzo[g,h,i]perylene</b>	<b>290</b>	<b>J</b>	370	120	ug/Kg	☼	08/11/14 15:11	08/14/14 13:36	5
Benzo[k]fluoranthene	<370		370	110	ug/Kg	☼	08/11/14 15:11	08/14/14 13:36	5
Bis(2-chloroethoxy)methane	<1900		1900	380	ug/Kg	☼	08/11/14 15:11	08/14/14 13:36	5
Bis(2-chloroethyl)ether	<1900		1900	560	ug/Kg	☼	08/11/14 15:11	08/14/14 13:36	5
Bis(2-ethylhexyl) phthalate	<1900		1900	680	ug/Kg	☼	08/11/14 15:11	08/14/14 13:36	5
Butyl benzyl phthalate	<1900		1900	700	ug/Kg	☼	08/11/14 15:11	08/14/14 13:36	5
Carbazole	<1900	*	1900	960	ug/Kg	☼	08/11/14 15:11	08/14/14 13:36	5
<b>Chrysene</b>	<b>250</b>	<b>J *</b>	370	100	ug/Kg	☼	08/11/14 15:11	08/14/14 13:36	5
Dibenz(a,h)anthracene	<370		370	72	ug/Kg	☼	08/11/14 15:11	08/14/14 13:36	5
Dibenzofuran	<1900		1900	430	ug/Kg	☼	08/11/14 15:11	08/14/14 13:36	5
Diethyl phthalate	<1900		1900	630	ug/Kg	☼	08/11/14 15:11	08/14/14 13:36	5
Dimethyl phthalate	<1900		1900	480	ug/Kg	☼	08/11/14 15:11	08/14/14 13:36	5
Di-n-butyl phthalate	<1900		1900	560	ug/Kg	☼	08/11/14 15:11	08/14/14 13:36	5
Di-n-octyl phthalate	<1900		1900	600	ug/Kg	☼	08/11/14 15:11	08/14/14 13:36	5
Fluoranthene	<370		370	69	ug/Kg	☼	08/11/14 15:11	08/14/14 13:36	5
Fluorene	<370		370	52	ug/Kg	☼	08/11/14 15:11	08/14/14 13:36	5
Hexachlorobenzene	<750		750	86	ug/Kg	☼	08/11/14 15:11	08/14/14 13:36	5
Hexachlorobutadiene	<1900		1900	580	ug/Kg	☼	08/11/14 15:11	08/14/14 13:36	5
Hexachlorocyclopentadiene	<7500		7500	2100	ug/Kg	☼	08/11/14 15:11	08/14/14 13:36	5
Hexachloroethane	<1900		1900	560	ug/Kg	☼	08/11/14 15:11	08/14/14 13:36	5

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81564-1

**Client Sample ID: VL-2(12-19)-073014D**

**Lab Sample ID: 500-81564-8**

**Date Collected: 07/30/14 11:00**

**Matrix: Solid**

**Date Received: 07/31/14 16:20**

**Percent Solids: 44.7**

**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	<370	*	370	96	ug/Kg	☼	08/11/14 15:11	08/14/14 13:36	5
Isophorone	<1900		1900	420	ug/Kg	☼	08/11/14 15:11	08/14/14 13:36	5
Naphthalene	<370		370	57	ug/Kg	☼	08/11/14 15:11	08/14/14 13:36	5
Nitrobenzene	<370		370	92	ug/Kg	☼	08/11/14 15:11	08/14/14 13:36	5
N-Nitrosodi-n-propylamine	<1900		1900	450	ug/Kg	☼	08/11/14 15:11	08/14/14 13:36	5
N-Nitrosodiphenylamine	<1900		1900	440	ug/Kg	☼	08/11/14 15:11	08/14/14 13:36	5
Pentachlorophenol	<7500		7500	5900	ug/Kg	☼	08/11/14 15:11	08/14/14 13:36	5
Phenanthrene	<370		370	52	ug/Kg	☼	08/11/14 15:11	08/14/14 13:36	5
Phenol	<1900		1900	820	ug/Kg	☼	08/11/14 15:11	08/14/14 13:36	5
<b>Pyrene</b>	<b>450</b>	*	370	74	ug/Kg	☼	08/11/14 15:11	08/14/14 13:36	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	78		35 - 137	08/11/14 15:11	08/14/14 13:36	5
2-Fluorobiphenyl	49		25 - 119	08/11/14 15:11	08/14/14 13:36	5
2-Fluorophenol	37		25 - 110	08/11/14 15:11	08/14/14 13:36	5
Nitrobenzene-d5	40		25 - 115	08/11/14 15:11	08/14/14 13:36	5
Phenol-d5	42		31 - 110	08/11/14 15:11	08/14/14 13:36	5
Terphenyl-d14	55		36 - 134	08/11/14 15:11	08/14/14 13:36	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		08/08/14 08:45	08/08/14 19:49	1
<b>Barium</b>	<b>0.44</b>	<b>J</b>	0.50	0.050	mg/L		08/08/14 08:45	08/08/14 19:49	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/08/14 08:45	08/08/14 19:49	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/08/14 08:45	08/08/14 19:49	1
Chromium	<0.025		0.025	0.010	mg/L		08/08/14 08:45	08/08/14 19:49	1
Cobalt	<0.025		0.025	0.010	mg/L		08/08/14 08:45	08/08/14 19:49	1
<b>Copper</b>	<b>0.022</b>	<b>J</b>	0.025	0.010	mg/L		08/08/14 08:45	08/08/14 19:49	1
Iron	<0.20		0.20	0.20	mg/L		08/08/14 08:45	08/08/14 19:49	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/08/14 08:45	08/08/14 19:49	1
<b>Manganese</b>	<b>1.6</b>		0.025	0.010	mg/L		08/08/14 08:45	08/08/14 19:49	1
Nickel	<0.025		0.025	0.010	mg/L		08/08/14 08:45	08/08/14 19:49	1
Selenium	<0.050		0.050	0.010	mg/L		08/08/14 08:45	08/08/14 19:49	1
Silver	<0.025		0.025	0.010	mg/L		08/08/14 08:45	08/08/14 19:49	1
<b>Zinc</b>	<b>0.32</b>		0.10	0.020	mg/L		08/08/14 08:45	08/08/14 19:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.011</b>	<b>J</b>	0.050	0.010	mg/L		08/06/14 09:30	08/07/14 02:26	1
<b>Barium</b>	<b>0.14</b>	<b>J</b>	0.50	0.050	mg/L		08/06/14 09:30	08/07/14 02:26	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/06/14 09:30	08/07/14 02:26	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/06/14 09:30	08/07/14 02:26	1
<b>Chromium</b>	<b>0.038</b>		0.025	0.010	mg/L		08/06/14 09:30	08/07/14 02:26	1
<b>Cobalt</b>	<b>0.014</b>	<b>J</b>	0.025	0.010	mg/L		08/06/14 09:30	08/07/14 02:26	1
<b>Copper</b>	<b>0.032</b>		0.025	0.010	mg/L		08/06/14 09:30	08/07/14 02:26	1
<b>Iron</b>	<b>35</b>		0.20	0.20	mg/L		08/06/14 09:30	08/07/14 02:26	1
<b>Lead</b>	<b>0.029</b>		0.0075	0.0075	mg/L		08/06/14 09:30	08/07/14 02:26	1
<b>Manganese</b>	<b>0.23</b>		0.025	0.010	mg/L		08/06/14 09:30	08/07/14 02:26	1
<b>Nickel</b>	<b>0.039</b>		0.025	0.010	mg/L		08/06/14 09:30	08/07/14 02:26	1
Selenium	<0.050		0.050	0.010	mg/L		08/06/14 09:30	08/07/14 02:26	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81564-1

**Client Sample ID: VL-2(12-19)-073014D**

**Lab Sample ID: 500-81564-8**

Date Collected: 07/30/14 11:00

Matrix: Solid

Date Received: 07/31/14 16:20

**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		08/06/14 09:30	08/07/14 02:26	1
<b>Zinc</b>	<b>0.10</b>	<b>B</b>	0.10	0.020	mg/L		08/06/14 09:30	08/07/14 02:26	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.1		2.1	0.86	mg/Kg	☼	08/19/14 09:45	08/20/14 04:19	1
<b>Arsenic</b>	<b>6.1</b>	<b>B</b>	1.1	0.21	mg/Kg	☼	08/19/14 09:45	08/20/14 04:19	1
<b>Barium</b>	<b>53</b>		1.1	0.11	mg/Kg	☼	08/19/14 09:45	08/20/14 04:19	1
<b>Beryllium</b>	<b>0.60</b>		0.43	0.086	mg/Kg	☼	08/19/14 09:45	08/20/14 04:19	1
<b>Cadmium</b>	<b>0.31</b>	<b>B</b>	0.21	0.027	mg/Kg	☼	08/19/14 09:45	08/20/14 04:19	1
<b>Calcium</b>	<b>53000</b>	<b>B</b>	21	5.8	mg/Kg	☼	08/19/14 09:45	08/20/14 04:19	1
<b>Chromium</b>	<b>13</b>		1.1	0.12	mg/Kg	☼	08/19/14 09:45	08/20/14 04:19	1
<b>Cobalt</b>	<b>8.2</b>		0.54	0.11	mg/Kg	☼	08/19/14 09:45	08/20/14 04:19	1
<b>Copper</b>	<b>25</b>		1.1	0.21	mg/Kg	☼	08/19/14 09:45	08/20/14 04:19	1
<b>Iron</b>	<b>16000</b>		21	8.8	mg/Kg	☼	08/19/14 09:45	08/20/14 04:19	1
<b>Lead</b>	<b>22</b>		0.54	0.16	mg/Kg	☼	08/19/14 09:45	08/20/14 04:19	1
<b>Magnesium</b>	<b>30000</b>		11	2.2	mg/Kg	☼	08/19/14 09:45	08/20/14 04:19	1
<b>Manganese</b>	<b>300</b>		1.1	0.21	mg/Kg	☼	08/19/14 09:45	08/20/14 04:19	1
<b>Nickel</b>	<b>21</b>		1.1	0.21	mg/Kg	☼	08/19/14 09:45	08/20/14 04:19	1
<b>Potassium</b>	<b>1700</b>		54	3.2	mg/Kg	☼	08/19/14 09:45	08/20/14 04:19	1
<b>Selenium</b>	<b>1.5</b>		1.1	0.38	mg/Kg	☼	08/19/14 09:45	08/20/14 04:19	1
Silver	<0.54		0.54	0.039	mg/Kg	☼	08/19/14 09:45	08/20/14 04:19	1
<b>Sodium</b>	<b>1100</b>		110	14	mg/Kg	☼	08/19/14 09:45	08/20/14 04:19	1
Thallium	<1.1		1.1	0.45	mg/Kg	☼	08/19/14 09:45	08/20/14 04:19	1
<b>Vanadium</b>	<b>18</b>		0.54	0.079	mg/Kg	☼	08/19/14 09:45	08/20/14 04:19	1
<b>Zinc</b>	<b>83</b>		2.1	0.43	mg/Kg	☼	08/19/14 09:45	08/20/14 04:19	1

**Method: 7470A - Mercury (CVAA) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		08/08/14 12:00	08/11/14 10:27	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		08/06/14 12:00	08/07/14 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
<b>Mercury</b>	<b>16</b>	<b>J</b>	33	13	ug/Kg	☼	08/06/14 13:00	08/07/14 10:11	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.51</b>		0.200	0.200	SU			08/06/14 18:44	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81564-1

**Client Sample ID: VL-2(19-26)-073014**

**Lab Sample ID: 500-81564-9**

**Date Collected: 07/30/14 11:00**

**Matrix: Solid**

**Date Received: 07/31/14 16:20**

**Percent Solids: 59.2**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>130</b>		8.4	3.6	ug/Kg	☼		08/01/14 17:10	1
Benzene	<8.4		8.4	1.2	ug/Kg	☼		08/01/14 17:10	1
Bromodichloromethane	<8.4		8.4	1.5	ug/Kg	☼		08/01/14 17:10	1
Bromoform	<8.4		8.4	1.9	ug/Kg	☼		08/01/14 17:10	1
Bromomethane	<8.4		8.4	2.6	ug/Kg	☼		08/01/14 17:10	1
Carbon disulfide	<8.4		8.4	1.3	ug/Kg	☼		08/01/14 17:10	1
Carbon tetrachloride	<8.4		8.4	1.5	ug/Kg	☼		08/01/14 17:10	1
Chlorobenzene	<8.4		8.4	0.86	ug/Kg	☼		08/01/14 17:10	1
Chloroethane	<8.4		8.4	2.3	ug/Kg	☼		08/01/14 17:10	1
Chloroform	<8.4		8.4	0.97	ug/Kg	☼		08/01/14 17:10	1
Chloromethane	<8.4		8.4	1.8	ug/Kg	☼		08/01/14 17:10	1
cis-1,2-Dichloroethene	<8.4		8.4	1.2	ug/Kg	☼		08/01/14 17:10	1
cis-1,3-Dichloropropene	<8.4		8.4	1.1	ug/Kg	☼		08/01/14 17:10	1
Dibromochloromethane	<8.4		8.4	1.5	ug/Kg	☼		08/01/14 17:10	1
1,1-Dichloroethane	<8.4		8.4	1.3	ug/Kg	☼		08/01/14 17:10	1
1,2-Dichloroethane	<8.4		8.4	1.3	ug/Kg	☼		08/01/14 17:10	1
1,1-Dichloroethene	<8.4		8.4	1.4	ug/Kg	☼		08/01/14 17:10	1
1,2-Dichloropropane	<8.4		8.4	1.3	ug/Kg	☼		08/01/14 17:10	1
1,3-Dichloropropene, Total	<8.4		8.4	1.1	ug/Kg	☼		08/01/14 17:10	1
Ethylbenzene	<8.4		8.4	1.7	ug/Kg	☼		08/01/14 17:10	1
2-Hexanone	<8.4		8.4	2.4	ug/Kg	☼		08/01/14 17:10	1
Methylene Chloride	<8.4		8.4	2.3	ug/Kg	☼		08/01/14 17:10	1
<b>Methyl Ethyl Ketone</b>	<b>20</b>		8.4	3.1	ug/Kg	☼		08/01/14 17:10	1
methyl isobutyl ketone	<8.4		8.4	2.2	ug/Kg	☼		08/01/14 17:10	1
Methyl tert-butyl ether	<8.4		8.4	1.4	ug/Kg	☼		08/01/14 17:10	1
Styrene	<8.4		8.4	1.1	ug/Kg	☼		08/01/14 17:10	1
1,1,2,2-Tetrachloroethane	<8.4		8.4	1.7	ug/Kg	☼		08/01/14 17:10	1
Tetrachloroethene	<8.4		8.4	1.3	ug/Kg	☼		08/01/14 17:10	1
Toluene	<8.4		8.4	1.2	ug/Kg	☼		08/01/14 17:10	1
trans-1,2-Dichloroethene	<8.4		8.4	1.2	ug/Kg	☼		08/01/14 17:10	1
trans-1,3-Dichloropropene	<8.4		8.4	1.5	ug/Kg	☼		08/01/14 17:10	1
1,1,1-Trichloroethane	<8.4		8.4	1.3	ug/Kg	☼		08/01/14 17:10	1
1,1,2-Trichloroethane	<8.4		8.4	1.2	ug/Kg	☼		08/01/14 17:10	1
Trichloroethene	<8.4		8.4	1.4	ug/Kg	☼		08/01/14 17:10	1
Vinyl chloride	<8.4		8.4	1.8	ug/Kg	☼		08/01/14 17:10	1
Xylenes, Total	<17		17	0.77	ug/Kg	☼		08/01/14 17:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122		08/01/14 17:10	1
Dibromofluoromethane	105		75 - 120		08/01/14 17:10	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 134		08/01/14 17:10	1
Toluene-d8 (Surr)	99		75 - 122		08/01/14 17:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<1300		1300	290	ug/Kg	☼	08/11/14 15:11	08/12/14 15:56	5
1,2-Dichlorobenzene	<1300		1300	320	ug/Kg	☼	08/11/14 15:11	08/12/14 15:56	5
1,3-Dichlorobenzene	<1300		1300	300	ug/Kg	☼	08/11/14 15:11	08/12/14 15:56	5
1,4-Dichlorobenzene	<1300		1300	340	ug/Kg	☼	08/11/14 15:11	08/12/14 15:56	5
2,2'-oxybis[1-chloropropane]	<1300		1300	310	ug/Kg	☼	08/11/14 15:11	08/12/14 15:56	5

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81564-1

**Client Sample ID: VL-2(19-26)-073014**

**Lab Sample ID: 500-81564-9**

**Date Collected: 07/30/14 11:00**

**Matrix: Solid**

**Date Received: 07/31/14 16:20**

**Percent Solids: 59.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<2700		2700	610	ug/Kg	☼	08/11/14 15:11	08/12/14 15:56	5
2,4,6-Trichlorophenol	<2700		2700	920	ug/Kg	☼	08/11/14 15:11	08/12/14 15:56	5
2,4-Dichlorophenol	<2700		2700	640	ug/Kg	☼	08/11/14 15:11	08/12/14 15:56	5
2,4-Dimethylphenol	<2700		2700	1000	ug/Kg	☼	08/11/14 15:11	08/12/14 15:56	5
2,4-Dinitrophenol	<5400		5400	4700	ug/Kg	☼	08/11/14 15:11	08/12/14 15:56	5
2,4-Dinitrotoluene	<1300		1300	430	ug/Kg	☼	08/11/14 15:11	08/12/14 15:56	5
2,6-Dinitrotoluene	<1300		1300	530	ug/Kg	☼	08/11/14 15:11	08/12/14 15:56	5
2-Chloronaphthalene	<1300		1300	300	ug/Kg	☼	08/11/14 15:11	08/12/14 15:56	5
2-Chlorophenol	<1300		1300	460	ug/Kg	☼	08/11/14 15:11	08/12/14 15:56	5
2-Methylnaphthalene	<270		270	49	ug/Kg	☼	08/11/14 15:11	08/12/14 15:56	5
2-Methylphenol	<1300		1300	430	ug/Kg	☼	08/11/14 15:11	08/12/14 15:56	5
2-Nitroaniline	<1300		1300	360	ug/Kg	☼	08/11/14 15:11	08/12/14 15:56	5
2-Nitrophenol	<2700		2700	630	ug/Kg	☼	08/11/14 15:11	08/12/14 15:56	5
3 & 4 Methylphenol	<1300		1300	450	ug/Kg	☼	08/11/14 15:11	08/12/14 15:56	5
3,3'-Dichlorobenzidine	<1300		1300	380	ug/Kg	☼	08/11/14 15:11	08/12/14 15:56	5
3-Nitroaniline	<2700		2700	830	ug/Kg	☼	08/11/14 15:11	08/12/14 15:56	5
4,6-Dinitro-2-methylphenol	<2700		2700	2200	ug/Kg	☼	08/11/14 15:11	08/12/14 15:56	5
4-Bromophenyl phenyl ether	<1300		1300	350	ug/Kg	☼	08/11/14 15:11	08/12/14 15:56	5
4-Chloro-3-methylphenol	<2700		2700	910	ug/Kg	☼	08/11/14 15:11	08/12/14 15:56	5
4-Chloroaniline	<5400		5400	1300	ug/Kg	☼	08/11/14 15:11	08/12/14 15:56	5
4-Chlorophenyl phenyl ether	<1300		1300	310	ug/Kg	☼	08/11/14 15:11	08/12/14 15:56	5
4-Nitroaniline	<2700		2700	1100	ug/Kg	☼	08/11/14 15:11	08/12/14 15:56	5
4-Nitrophenol	<5400		5400	2600	ug/Kg	☼	08/11/14 15:11	08/12/14 15:56	5
Acenaphthene	<270		270	48	ug/Kg	☼	08/11/14 15:11	08/12/14 15:56	5
Acenaphthylene	<270		270	35	ug/Kg	☼	08/11/14 15:11	08/12/14 15:56	5
Anthracene	<270		270	45	ug/Kg	☼	08/11/14 15:11	08/12/14 15:56	5
Benzo[a]anthracene	<270		270	36	ug/Kg	☼	08/11/14 15:11	08/12/14 15:56	5
Benzo[a]pyrene	<270		270	52	ug/Kg	☼	08/11/14 15:11	08/12/14 15:56	5
Benzo[b]fluoranthene	<270		270	58	ug/Kg	☼	08/11/14 15:11	08/12/14 15:56	5
Benzo[g,h,i]perylene	<270		270	86	ug/Kg	☼	08/11/14 15:11	08/12/14 15:56	5
Benzo[k]fluoranthene	<270		270	79	ug/Kg	☼	08/11/14 15:11	08/12/14 15:56	5
Bis(2-chloroethoxy)methane	<1300		1300	270	ug/Kg	☼	08/11/14 15:11	08/12/14 15:56	5
Bis(2-chloroethyl)ether	<1300		1300	400	ug/Kg	☼	08/11/14 15:11	08/12/14 15:56	5
Bis(2-ethylhexyl) phthalate	<1300		1300	490	ug/Kg	☼	08/11/14 15:11	08/12/14 15:56	5
Butyl benzyl phthalate	<1300		1300	510	ug/Kg	☼	08/11/14 15:11	08/12/14 15:56	5
Carbazole	<1300	*	1300	690	ug/Kg	☼	08/11/14 15:11	08/12/14 15:56	5
Chrysene	<270	*	270	73	ug/Kg	☼	08/11/14 15:11	08/12/14 15:56	5
Dibenz(a,h)anthracene	<270		270	52	ug/Kg	☼	08/11/14 15:11	08/12/14 15:56	5
Dibenzofuran	<1300		1300	310	ug/Kg	☼	08/11/14 15:11	08/12/14 15:56	5
Diethyl phthalate	<1300		1300	450	ug/Kg	☼	08/11/14 15:11	08/12/14 15:56	5
Dimethyl phthalate	<1300		1300	350	ug/Kg	☼	08/11/14 15:11	08/12/14 15:56	5
Di-n-butyl phthalate	<1300		1300	410	ug/Kg	☼	08/11/14 15:11	08/12/14 15:56	5
Di-n-octyl phthalate	<1300		1300	440	ug/Kg	☼	08/11/14 15:11	08/12/14 15:56	5
Fluoranthene	<270		270	50	ug/Kg	☼	08/11/14 15:11	08/12/14 15:56	5
Fluorene	<270		270	38	ug/Kg	☼	08/11/14 15:11	08/12/14 15:56	5
Hexachlorobenzene	<540		540	62	ug/Kg	☼	08/11/14 15:11	08/12/14 15:56	5
Hexachlorobutadiene	<1300		1300	420	ug/Kg	☼	08/11/14 15:11	08/12/14 15:56	5
Hexachlorocyclopentadiene	<5400		5400	1500	ug/Kg	☼	08/11/14 15:11	08/12/14 15:56	5
Hexachloroethane	<1300		1300	410	ug/Kg	☼	08/11/14 15:11	08/12/14 15:56	5

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81564-1

**Client Sample ID: VL-2(19-26)-073014**

**Lab Sample ID: 500-81564-9**

**Date Collected: 07/30/14 11:00**

**Matrix: Solid**

**Date Received: 07/31/14 16:20**

**Percent Solids: 59.2**

**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	<270	*	270	69	ug/Kg	☼	08/11/14 15:11	08/12/14 15:56	5
Isophorone	<1300		1300	300	ug/Kg	☼	08/11/14 15:11	08/12/14 15:56	5
Naphthalene	<270		270	41	ug/Kg	☼	08/11/14 15:11	08/12/14 15:56	5
Nitrobenzene	<270		270	67	ug/Kg	☼	08/11/14 15:11	08/12/14 15:56	5
N-Nitrosodi-n-propylamine	<1300		1300	330	ug/Kg	☼	08/11/14 15:11	08/12/14 15:56	5
N-Nitrosodiphenylamine	<1300		1300	320	ug/Kg	☼	08/11/14 15:11	08/12/14 15:56	5
Pentachlorophenol	<5400		5400	4300	ug/Kg	☼	08/11/14 15:11	08/12/14 15:56	5
Phenanthrene	<270		270	37	ug/Kg	☼	08/11/14 15:11	08/12/14 15:56	5
Phenol	<1300		1300	600	ug/Kg	☼	08/11/14 15:11	08/12/14 15:56	5
Pyrene	<270	*	270	53	ug/Kg	☼	08/11/14 15:11	08/12/14 15:56	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	53		35 - 137				08/11/14 15:11	08/12/14 15:56	5
2-Fluorobiphenyl	52		25 - 119				08/11/14 15:11	08/12/14 15:56	5
2-Fluorophenol	42		25 - 110				08/11/14 15:11	08/12/14 15:56	5
Nitrobenzene-d5	34		25 - 115				08/11/14 15:11	08/12/14 15:56	5
Phenol-d5	55		31 - 110				08/11/14 15:11	08/12/14 15:56	5
Terphenyl-d14	62		36 - 134				08/11/14 15:11	08/12/14 15:56	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		08/08/14 08:45	08/08/14 19:55	1
<b>Barium</b>	<b>0.48</b>	<b>J</b>	0.50	0.050	mg/L		08/08/14 08:45	08/08/14 19:55	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/08/14 08:45	08/08/14 19:55	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/08/14 08:45	08/08/14 19:55	1
Chromium	<0.025		0.025	0.010	mg/L		08/08/14 08:45	08/08/14 19:55	1
Cobalt	<0.025		0.025	0.010	mg/L		08/08/14 08:45	08/08/14 19:55	1
<b>Copper</b>	<b>0.021</b>	<b>J</b>	0.025	0.010	mg/L		08/08/14 08:45	08/08/14 19:55	1
Iron	<0.20		0.20	0.20	mg/L		08/08/14 08:45	08/08/14 19:55	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/08/14 08:45	08/08/14 19:55	1
<b>Manganese</b>	<b>1.6</b>		0.025	0.010	mg/L		08/08/14 08:45	08/08/14 19:55	1
<b>Nickel</b>	<b>0.011</b>	<b>J</b>	0.025	0.010	mg/L		08/08/14 08:45	08/08/14 19:55	1
Selenium	<0.050		0.050	0.010	mg/L		08/08/14 08:45	08/08/14 19:55	1
Silver	<0.025		0.025	0.010	mg/L		08/08/14 08:45	08/08/14 19:55	1
<b>Zinc</b>	<b>0.30</b>		0.10	0.020	mg/L		08/08/14 08:45	08/08/14 19:55	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		08/06/14 09:30	08/07/14 02:33	1
Barium	<0.50		0.50	0.050	mg/L		08/06/14 09:30	08/07/14 02:33	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/06/14 09:30	08/07/14 02:33	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/06/14 09:30	08/07/14 02:33	1
Chromium	<0.025		0.025	0.010	mg/L		08/06/14 09:30	08/07/14 02:33	1
Cobalt	<0.025		0.025	0.010	mg/L		08/06/14 09:30	08/07/14 02:33	1
<b>Copper</b>	<b>0.064</b>		0.025	0.010	mg/L		08/06/14 09:30	08/07/14 02:33	1
<b>Iron</b>	<b>0.87</b>		0.20	0.20	mg/L		08/06/14 09:30	08/07/14 02:33	1
<b>Lead</b>	<b>0.0075</b>		0.0075	0.0075	mg/L		08/06/14 09:30	08/07/14 02:33	1
<b>Manganese</b>	<b>0.028</b>		0.025	0.010	mg/L		08/06/14 09:30	08/07/14 02:33	1
Nickel	<0.025		0.025	0.010	mg/L		08/06/14 09:30	08/07/14 02:33	1
Selenium	<0.050		0.050	0.010	mg/L		08/06/14 09:30	08/07/14 02:33	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81564-1

**Client Sample ID: VL-2(19-26)-073014**

**Lab Sample ID: 500-81564-9**

Date Collected: 07/30/14 11:00

Matrix: Solid

Date Received: 07/31/14 16:20

**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		08/06/14 09:30	08/07/14 02:33	1
Zinc	0.028	J B	0.10	0.020	mg/L		08/06/14 09:30	08/07/14 02:33	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.7		1.7	0.66	mg/Kg	☼	08/06/14 17:05	08/07/14 22:11	1
Arsenic	3.0		0.83	0.16	mg/Kg	☼	08/06/14 17:05	08/07/14 22:11	1
Barium	17		0.83	0.088	mg/Kg	☼	08/06/14 17:05	08/07/14 22:11	1
Beryllium	0.15	J	0.33	0.066	mg/Kg	☼	08/06/14 17:05	08/07/14 22:11	1
Cadmium	0.29		0.17	0.021	mg/Kg	☼	08/06/14 17:05	08/07/14 22:11	1
Calcium	31000	B	17	4.5	mg/Kg	☼	08/06/14 17:05	08/07/14 22:11	1
Chromium	5.3		0.83	0.096	mg/Kg	☼	08/06/14 17:05	08/07/14 22:11	1
Cobalt	3.9		0.41	0.083	mg/Kg	☼	08/06/14 17:05	08/07/14 22:11	1
Copper	14		0.83	0.17	mg/Kg	☼	08/06/14 17:05	08/07/14 22:11	1
Iron	6700		17	6.8	mg/Kg	☼	08/06/14 17:05	08/07/14 22:11	1
Lead	3.0		0.41	0.12	mg/Kg	☼	08/06/14 17:05	08/07/14 22:11	1
Magnesium	16000	B	8.3	1.7	mg/Kg	☼	08/06/14 17:05	08/07/14 22:11	1
Manganese	160		0.83	0.17	mg/Kg	☼	08/06/14 17:05	08/07/14 22:11	1
Nickel	13		0.83	0.17	mg/Kg	☼	08/06/14 17:05	08/07/14 22:11	1
Potassium	510		41	2.5	mg/Kg	☼	08/06/14 17:05	08/07/14 22:11	1
Selenium	1.4		0.83	0.29	mg/Kg	☼	08/06/14 17:05	08/07/14 22:11	1
Silver	0.045	J B	0.41	0.030	mg/Kg	☼	08/06/14 17:05	08/07/14 22:11	1
Sodium	120		83	11	mg/Kg	☼	08/06/14 17:05	08/07/14 22:11	1
Thallium	<0.83		0.83	0.35	mg/Kg	☼	08/06/14 17:05	08/07/14 22:11	1
Vanadium	8.3	B	0.41	0.061	mg/Kg	☼	08/06/14 17:05	08/07/14 22:11	1
Zinc	25		1.7	0.33	mg/Kg	☼	08/06/14 17:05	08/07/14 22:11	1

**Method: 7470A - Mercury (CVAA) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		08/08/14 12:00	08/11/14 10:29	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		08/06/14 12:00	08/07/14 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	<27		27	10	ug/Kg	☼	08/06/14 13:00	08/07/14 10:13	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.01		0.200	0.200	SU			08/06/14 18:51	1

## Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81564-1

### 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.
*	LCS or 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.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

### Glossary

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

# Certification Summary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81564-1

## 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 Inc.  
Address: 300 Plaza Circle, Ste 202  
Address: Mundelein, IL 60060  
Phone: 224-864-7250  
Fax: 224-864-7236  
E-Mail:

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

## Chain of Custody Record

Lab Job #: 500-81564

Chain of Custody Number: \_\_\_\_\_

Page 1 of 2

Temperature °C of Cooler: 3.2

Client		Client Project #		Preservative		Parameter		Matrix		Comments
Weston Solutions Inc				8 8 8 8 8						
Project Name		Lab Project #		VOCs		SVOCs		Total Metals		Preservative Key
IDOT 046 - IL 132 (Grand Ave)										
Project Location/State		Lab PM		TCLP/SPLP		Metals		PH		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
Lake County, IL		Dick Wright								
Sampler		Sample ID		Date		Time		# of Containers		Matrix
M. Strow										
1	VL-1(0-6)-073014	7/30/14	0945	2	S	X	X	X	X	X
2	VL-1(6-12)-073014		0945	2	S					
3	VL-1(12-18)-073014		0945	2	S					
4	VL-1(18-22)-073014		0945	2	S					
5	VL-2(0-6)-073014		1100	2	S					
6	VL-2(6-12)-073014		1100	2	S					
7	VL-2(12-19)-073014		1100	2	S					
8	VL-2(12-19)-073014D		1100	2	S					
9	VL-2(19-26)-073014		1100	2	S					
10	VL-3(0-6)-073014		1200	2	S					

7/30/14  
 M. Strow  
 Dick Wright

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>7-30-14</u>	Time <u>1520</u>	Received By <u>[Signature]</u> Company: <u>TA</u>	Date <u>7/30/14</u>	Time <u>1520</u>	Lab Courier <u>TA</u>
Relinquished By <u>[Signature]</u> Company: <u>TA</u>	Date <u>7/31/14</u>	Time <u>800</u>	Received By <u>[Signature]</u> Company: <u>TA</u>	Date <u>7/31/14</u>	Time <u>1620</u>	Shipped
Relinquished By	Date	Time	Received By	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:



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 541 (Grand Ave) at Fairfield Rd Office Phone Number, if available: \_\_\_\_\_

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

28196 N. Fairfield Rd

City: Lake Villa 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: 42.417683817 Longitude: -88.106870687  
(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 541 (Grand Ave) at Fairfield Rd

Latitude: 42.417683817 Longitude: -88.106870687

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 FS-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2732-4. 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: 500-81266-1

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

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

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

Company Name: Illinois Department of Transportation

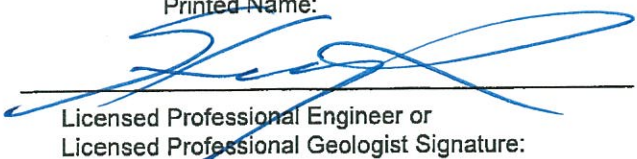
Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

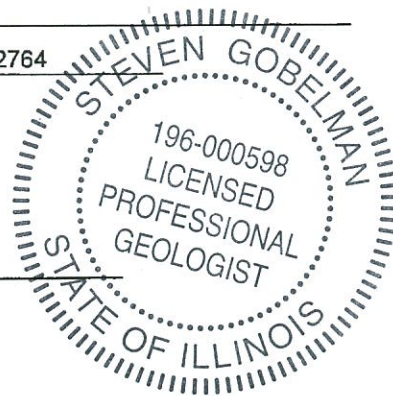
Steven Gobelman, P.E., L.P.G.

Printed Name:



Licensed Professional Engineer or  
Licensed Professional Geologist Signature:

8/25/15  
Date:



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

**Summary Table of ISGS Site No. 2732-4**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAP 541 (IL Route 132; Grand Avenue) at Fairfield Road**  
**Unincorporated Lake County, Illinois**

Field Sample ID	FS-1(0-7)-072514	<b>Soil Reference Concentrations<sup>A</sup></b>
Sample Date	7/25/2014	
Location ID	FS-1	
Depth	0 - 7	
ISGS Site Number	2732-4	
<b>Parameter</b>		
Laboratory pH (standard units)	8.84	<6.25, >9.0
<b>VOCs (ug/kg)</b>	<b>None Detected</b>	
<b>SVOCs (ug/kg)</b>	<b>None Detected</b>	
<b>Total Metals (mg/kg)</b>		
Arsenic, Total	6.8 J	11.3/13.0
Barium, Total	65 J-	1500
Beryllium, Total	0.74	22
Cadmium, Total	0.8 J	5.2
Chromium, Total	22 J+	21
Cobalt, Total	7.3 J	20
Copper, Total	20 J-	2900
Iron, Total	22000 J	15000/15900
Lead, Total	11 J-	107
Magnesium, Total	6400 J-	325000
Manganese, Total	210 J	630/636
Mercury, Total	0.019 J	0.89
Nickel, Total	21	100
Selenium, Total	ND	1.3
<b>TCLP Metals (mg/l)</b>		
Arsenic, TCLP	ND	0.05
Barium, TCLP	0.42 J	2
Beryllium, TCLP	ND	0.004
Cadmium, TCLP	ND	0.005
Chromium, TCLP	ND	0.1
Cobalt, TCLP	ND	1
Copper, TCLP	ND	0.65
Iron, TCLP	ND	5
Lead, TCLP	ND	0.0075
Manganese, TCLP	0.9	0.15
Mercury, TCLP	ND	0.002
Nickel, TCLP	ND	0.1
Selenium, TCLP	ND	0.05
<b>SPLP Metals (mg/l)</b>		
Arsenic, SPLP	0.064	0.05
Barium, SPLP	0.6	2
Beryllium, SPLP	0.0074	0.004
Cadmium, SPLP	ND	0.005
Chromium, SPLP	0.2	0.1
Cobalt, SPLP	0.049	1
Copper, SPLP	0.21	0.65
Iron, SPLP	200 J+	5
Lead, SPLP	0.079	0.0075
Manganese, SPLP	0.74	0.15
Mercury, SPLP	0.00026	0.002
Nickel, SPLP	0.19	0.1
Selenium, SPLP	ND	0.05

**Notes:**

--- - not applicable or value not available.

<sup>A</sup> - 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: 500-81266-1  
Client Project/Site: IDOT - IL Rt. 132 - WO 046

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

Attn: Mr. S. Babusukumar



Authorized for release by:  
8/11/2014 4:30:03 PM

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

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://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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- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81266-1

**Client Sample ID: FS-1(0-7)-072514**

**Lab Sample ID: 500-81266-15**

**Date Collected: 07/25/14 12:20**

**Matrix: Solid**

**Date Received: 07/26/14 06:30**

**Percent Solids: 84.0**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<6.0		6.0	2.6	ug/Kg	☼		07/30/14 05:55	1
Benzene	<6.0		6.0	0.82	ug/Kg	☼		07/30/14 05:55	1
Bromodichloromethane	<6.0		6.0	1.0	ug/Kg	☼		07/30/14 05:55	1
Bromoform	<6.0		6.0	1.4	ug/Kg	☼		07/30/14 05:55	1
Bromomethane	<6.0		6.0	1.8	ug/Kg	☼		07/30/14 05:55	1
Carbon disulfide	<6.0		6.0	0.89	ug/Kg	☼		07/30/14 05:55	1
Carbon tetrachloride	<6.0		6.0	1.1	ug/Kg	☼		07/30/14 05:55	1
Chlorobenzene	<6.0		6.0	0.60	ug/Kg	☼		07/30/14 05:55	1
Chloroethane	<6.0		6.0	1.6	ug/Kg	☼		07/30/14 05:55	1
Chloroform	<6.0		6.0	0.68	ug/Kg	☼		07/30/14 05:55	1
Chloromethane	<6.0		6.0	1.3	ug/Kg	☼		07/30/14 05:55	1
cis-1,2-Dichloroethene	<6.0		6.0	0.84	ug/Kg	☼		07/30/14 05:55	1
cis-1,3-Dichloropropene	<6.0		6.0	0.78	ug/Kg	☼		07/30/14 05:55	1
Dibromochloromethane	<6.0		6.0	1.0	ug/Kg	☼		07/30/14 05:55	1
1,1-Dichloroethane	<6.0		6.0	0.94	ug/Kg	☼		07/30/14 05:55	1
1,2-Dichloroethane	<6.0		6.0	0.88	ug/Kg	☼		07/30/14 05:55	1
1,1,1-Dichloroethene	<6.0		6.0	0.96	ug/Kg	☼		07/30/14 05:55	1
1,2-Dichloropropane	<6.0		6.0	0.90	ug/Kg	☼		07/30/14 05:55	1
1,3-Dichloropropene, Total	<6.0		6.0	0.78	ug/Kg	☼		07/30/14 05:55	1
Ethylbenzene	<6.0		6.0	1.2	ug/Kg	☼		07/30/14 05:55	1
2-Hexanone	<6.0		6.0	1.7	ug/Kg	☼		07/30/14 05:55	1
Methylene Chloride	<6.0		6.0	1.6	ug/Kg	☼		07/30/14 05:55	1
Methyl Ethyl Ketone	<6.0		6.0	2.2	ug/Kg	☼		07/30/14 05:55	1
methyl isobutyl ketone	<6.0		6.0	1.6	ug/Kg	☼		07/30/14 05:55	1
Methyl tert-butyl ether	<6.0		6.0	0.98	ug/Kg	☼		07/30/14 05:55	1
Styrene	<6.0		6.0	0.78	ug/Kg	☼		07/30/14 05:55	1
1,1,2,2-Tetrachloroethane	<6.0		6.0	1.2	ug/Kg	☼		07/30/14 05:55	1
Tetrachloroethene	<6.0		6.0	0.91	ug/Kg	☼		07/30/14 05:55	1
Toluene	<6.0		6.0	0.83	ug/Kg	☼		07/30/14 05:55	1
trans-1,2-Dichloroethene	<6.0		6.0	0.82	ug/Kg	☼		07/30/14 05:55	1
trans-1,3-Dichloropropene	<6.0		6.0	1.1	ug/Kg	☼		07/30/14 05:55	1
1,1,1-Trichloroethane	<6.0		6.0	0.89	ug/Kg	☼		07/30/14 05:55	1
1,1,2-Trichloroethane	<6.0		6.0	0.81	ug/Kg	☼		07/30/14 05:55	1
Trichloroethene	<6.0		6.0	0.98	ug/Kg	☼		07/30/14 05:55	1
Vinyl chloride	<6.0		6.0	1.3	ug/Kg	☼		07/30/14 05:55	1
Xylenes, Total	<12		12	0.54	ug/Kg	☼		07/30/14 05:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122		07/30/14 05:55	1
Dibromofluoromethane	110		75 - 120		07/30/14 05:55	1
1,2-Dichloroethane-d4 (Surr)	118		70 - 134		07/30/14 05:55	1
Toluene-d8 (Surr)	98		75 - 122		07/30/14 05:55	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	☼	08/07/14 07:44	08/09/14 00:34	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	08/07/14 07:44	08/09/14 00:34	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	08/07/14 07:44	08/09/14 00:34	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	08/07/14 07:44	08/09/14 00:34	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	08/07/14 07:44	08/09/14 00:34	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81266-1

**Client Sample ID: FS-1(0-7)-072514**

**Lab Sample ID: 500-81266-15**

**Date Collected: 07/25/14 12:20**

**Matrix: Solid**

**Date Received: 07/26/14 06:30**

**Percent Solids: 84.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	85	ug/Kg	☼	08/07/14 07:44	08/09/14 00:34	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	08/07/14 07:44	08/09/14 00:34	1
2,4-Dichlorophenol	<370		370	89	ug/Kg	☼	08/07/14 07:44	08/09/14 00:34	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	08/07/14 07:44	08/09/14 00:34	1
2,4-Dinitrophenol	<750		750	660	ug/Kg	☼	08/07/14 07:44	08/09/14 00:34	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	08/07/14 07:44	08/09/14 00:34	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	08/07/14 07:44	08/09/14 00:34	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	08/07/14 07:44	08/09/14 00:34	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	08/07/14 07:44	08/09/14 00:34	1
2-Methylnaphthalene	<37		37	6.9	ug/Kg	☼	08/07/14 07:44	08/09/14 00:34	1
2-Methylphenol	<190		190	60	ug/Kg	☼	08/07/14 07:44	08/09/14 00:34	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	08/07/14 07:44	08/09/14 00:34	1
2-Nitrophenol	<370		370	88	ug/Kg	☼	08/07/14 07:44	08/09/14 00:34	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	08/07/14 07:44	08/09/14 00:34	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	08/07/14 07:44	08/09/14 00:34	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	08/07/14 07:44	08/09/14 00:34	1
4,6-Dinitro-2-methylphenol	<370		370	300	ug/Kg	☼	08/07/14 07:44	08/09/14 00:34	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	08/07/14 07:44	08/09/14 00:34	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	08/07/14 07:44	08/09/14 00:34	1
4-Chloroaniline	<750		750	180	ug/Kg	☼	08/07/14 07:44	08/09/14 00:34	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	08/07/14 07:44	08/09/14 00:34	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	08/07/14 07:44	08/09/14 00:34	1
4-Nitrophenol	<750		750	360	ug/Kg	☼	08/07/14 07:44	08/09/14 00:34	1
Acenaphthene	<37		37	6.7	ug/Kg	☼	08/07/14 07:44	08/09/14 00:34	1
Acenaphthylene	<37		37	4.9	ug/Kg	☼	08/07/14 07:44	08/09/14 00:34	1
Anthracene	<37		37	6.2	ug/Kg	☼	08/07/14 07:44	08/09/14 00:34	1
Benzo[a]anthracene	<37		37	5.0	ug/Kg	☼	08/07/14 07:44	08/09/14 00:34	1
Benzo[a]pyrene	<37		37	7.2	ug/Kg	☼	08/07/14 07:44	08/09/14 00:34	1
Benzo[b]fluoranthene	<37		37	8.1	ug/Kg	☼	08/07/14 07:44	08/09/14 00:34	1
Benzo[g,h,i]perylene	<37		37	12	ug/Kg	☼	08/07/14 07:44	08/09/14 00:34	1
Benzo[k]fluoranthene	<37		37	11	ug/Kg	☼	08/07/14 07:44	08/09/14 00:34	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	08/07/14 07:44	08/09/14 00:34	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	08/07/14 07:44	08/09/14 00:34	1
Bis(2-ethylhexyl) phthalate	<190		190	68	ug/Kg	☼	08/07/14 07:44	08/09/14 00:34	1
Butyl benzyl phthalate	<190		190	71	ug/Kg	☼	08/07/14 07:44	08/09/14 00:34	1
Carbazole	<190		190	96	ug/Kg	☼	08/07/14 07:44	08/09/14 00:34	1
Chrysene	<37		37	10	ug/Kg	☼	08/07/14 07:44	08/09/14 00:34	1
Dibenz(a,h)anthracene	<37		37	7.2	ug/Kg	☼	08/07/14 07:44	08/09/14 00:34	1
Dibenzofuran	<190		190	44	ug/Kg	☼	08/07/14 07:44	08/09/14 00:34	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	08/07/14 07:44	08/09/14 00:34	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	08/07/14 07:44	08/09/14 00:34	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	08/07/14 07:44	08/09/14 00:34	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	08/07/14 07:44	08/09/14 00:34	1
Fluoranthene	<37		37	6.9	ug/Kg	☼	08/07/14 07:44	08/09/14 00:34	1
Fluorene	<37		37	5.2	ug/Kg	☼	08/07/14 07:44	08/09/14 00:34	1
Hexachlorobenzene	<75		75	8.7	ug/Kg	☼	08/07/14 07:44	08/09/14 00:34	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	08/07/14 07:44	08/09/14 00:34	1
Hexachlorocyclopentadiene	<750		750	210	ug/Kg	☼	08/07/14 07:44	08/09/14 00:34	1
Hexachloroethane	<190		190	57	ug/Kg	☼	08/07/14 07:44	08/09/14 00:34	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81266-1

**Client Sample ID: FS-1(0-7)-072514**

**Lab Sample ID: 500-81266-15**

Date Collected: 07/25/14 12:20

Matrix: Solid

Date Received: 07/26/14 06:30

Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<37		37	9.7	ug/Kg	☼	08/07/14 07:44	08/09/14 00:34	1
Isophorone	<190		190	42	ug/Kg	☼	08/07/14 07:44	08/09/14 00:34	1
Naphthalene	<37		37	5.7	ug/Kg	☼	08/07/14 07:44	08/09/14 00:34	1
Nitrobenzene	<37		37	9.3	ug/Kg	☼	08/07/14 07:44	08/09/14 00:34	1
N-Nitrosodi-n-propylamine	<190		190	46	ug/Kg	☼	08/07/14 07:44	08/09/14 00:34	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	08/07/14 07:44	08/09/14 00:34	1
Pentachlorophenol	<750		750	600	ug/Kg	☼	08/07/14 07:44	08/09/14 00:34	1
Phenanthrene	<37		37	5.2	ug/Kg	☼	08/07/14 07:44	08/09/14 00:34	1
Phenol	<190		190	83	ug/Kg	☼	08/07/14 07:44	08/09/14 00:34	1
Pyrene	<37		37	7.4	ug/Kg	☼	08/07/14 07:44	08/09/14 00:34	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2,4,6-Tribromophenol	83		35 - 137				08/07/14 07:44	08/09/14 00:34	1
2-Fluorobiphenyl	61		25 - 119				08/07/14 07:44	08/09/14 00:34	1
2-Fluorophenol	68		25 - 110				08/07/14 07:44	08/09/14 00:34	1
Nitrobenzene-d5	60		25 - 115				08/07/14 07:44	08/09/14 00:34	1
Phenol-d5	70		31 - 110				08/07/14 07:44	08/09/14 00:34	1
Terphenyl-d14	126		36 - 134				08/07/14 07:44	08/09/14 00:34	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		08/05/14 08:30	08/06/14 03:14	1
<b>Barium</b>	<b>0.42</b>	<b>J</b>	0.50	0.050	mg/L		08/05/14 08:30	08/06/14 03:14	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/05/14 08:30	08/06/14 03:14	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/05/14 08:30	08/06/14 03:14	1
Chromium	<0.025		0.025	0.010	mg/L		08/05/14 08:30	08/06/14 03:14	1
Cobalt	<0.025		0.025	0.010	mg/L		08/05/14 08:30	08/06/14 03:14	1
Copper	<0.025		0.025	0.010	mg/L		08/05/14 08:30	08/06/14 03:14	1
Iron	<0.20		0.20	0.20	mg/L		08/05/14 08:30	08/06/14 03:14	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/05/14 08:30	08/06/14 03:14	1
<b>Manganese</b>	<b>0.90</b>		0.025	0.010	mg/L		08/05/14 08:30	08/06/14 03:14	1
Nickel	<0.025		0.025	0.010	mg/L		08/05/14 08:30	08/06/14 03:14	1
Selenium	<0.050		0.050	0.010	mg/L		08/05/14 08:30	08/06/14 03:14	1
Silver	<0.025		0.025	0.010	mg/L		08/05/14 08:30	08/06/14 03:14	1
Zinc	<0.10		0.10	0.020	mg/L		08/05/14 08:30	08/06/14 03:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.064</b>		0.050	0.010	mg/L		08/05/14 10:30	08/06/14 06:18	1
<b>Barium</b>	<b>0.60</b>		0.50	0.050	mg/L		08/05/14 10:30	08/06/14 06:18	1
<b>Beryllium</b>	<b>0.0074</b>		0.0040	0.0040	mg/L		08/05/14 10:30	08/06/14 06:18	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/05/14 10:30	08/06/14 06:18	1
<b>Chromium</b>	<b>0.20</b>		0.025	0.010	mg/L		08/05/14 10:30	08/06/14 06:18	1
<b>Cobalt</b>	<b>0.049</b>		0.025	0.010	mg/L		08/05/14 10:30	08/06/14 06:18	1
<b>Copper</b>	<b>0.21</b>		0.025	0.010	mg/L		08/05/14 10:30	08/06/14 06:18	1
<b>Iron</b>	<b>200</b>		0.20	0.20	mg/L		08/05/14 10:30	08/06/14 06:18	1
<b>Lead</b>	<b>0.079</b>		0.0075	0.0075	mg/L		08/05/14 10:30	08/06/14 06:18	1
<b>Manganese</b>	<b>0.74</b>		0.025	0.010	mg/L		08/05/14 10:30	08/06/14 06:18	1
<b>Nickel</b>	<b>0.19</b>		0.025	0.010	mg/L		08/05/14 10:30	08/06/14 06:18	1
Selenium	<0.050		0.050	0.010	mg/L		08/05/14 10:30	08/06/14 06:18	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81266-1

**Client Sample ID: FS-1(0-7)-072514**

**Lab Sample ID: 500-81266-15**

Date Collected: 07/25/14 12:20

Matrix: Solid

Date Received: 07/26/14 06:30

**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		08/05/14 10:30	08/06/14 06:18	1
Zinc	0.46	B	0.10	0.020	mg/L		08/05/14 10:30	08/06/14 06:18	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.46	mg/Kg	☼	08/01/14 17:50	08/04/14 23:29	1
Arsenic	6.8		0.58	0.11	mg/Kg	☼	08/01/14 17:50	08/04/14 23:29	1
Barium	65		0.58	0.062	mg/Kg	☼	08/01/14 17:50	08/04/14 23:29	1
Beryllium	0.74		0.23	0.046	mg/Kg	☼	08/01/14 17:50	08/04/14 23:29	1
Cadmium	0.80		0.12	0.015	mg/Kg	☼	08/01/14 17:50	08/04/14 23:29	1
Calcium	4700		12	3.1	mg/Kg	☼	08/01/14 17:50	08/04/14 23:29	1
Chromium	22	B	0.58	0.067	mg/Kg	☼	08/01/14 17:50	08/04/14 23:29	1
Cobalt	7.3		0.29	0.058	mg/Kg	☼	08/01/14 17:50	08/04/14 23:29	1
Copper	20		0.58	0.12	mg/Kg	☼	08/01/14 17:50	08/04/14 23:29	1
Iron	22000		12	4.7	mg/Kg	☼	08/01/14 17:50	08/04/14 23:29	1
Lead	11	B	0.29	0.086	mg/Kg	☼	08/01/14 17:50	08/04/14 23:29	1
Magnesium	6400		5.8	1.2	mg/Kg	☼	08/01/14 17:50	08/04/14 23:29	1
Manganese	210		0.58	0.12	mg/Kg	☼	08/01/14 17:50	08/04/14 23:29	1
Nickel	21		0.58	0.12	mg/Kg	☼	08/01/14 17:50	08/04/14 23:29	1
Potassium	1800		29	1.7	mg/Kg	☼	08/01/14 17:50	08/04/14 23:29	1
Selenium	<0.58		0.58	0.21	mg/Kg	☼	08/01/14 17:50	08/04/14 23:29	1
Silver	0.046	J	0.29	0.021	mg/Kg	☼	08/01/14 17:50	08/04/14 23:29	1
Sodium	1600		58	7.7	mg/Kg	☼	08/01/14 17:50	08/04/14 23:29	1
Thallium	0.64		0.58	0.24	mg/Kg	☼	08/01/14 17:50	08/04/14 23:29	1
Vanadium	24	B	0.29	0.043	mg/Kg	☼	08/01/14 17:50	08/04/14 23:29	1
Zinc	59		1.2	0.23	mg/Kg	☼	08/01/14 17:50	08/04/14 23:29	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		08/05/14 12:00	08/06/14 10:35	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		08/05/14 12:00	08/06/14 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	19		19	7.3	ug/Kg	☼	08/01/14 12:00	08/04/14 13:12	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.84		0.200	0.200	SU			08/01/14 14:45	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81266-1

## 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.
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
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.
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 - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81266-1

## 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 TESTING

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

Report To (optional)  
 Contact: S. Babusukumar  
 Company: Weston Solutions Inc.  
 Address: 300 Plaza Circle, Ste 202  
Mundelein, IL 60060  
 Phone: 224-864-7250  
 Fax: 224-864-7234  
 E-Mail:

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

## Chain of Custody Record

Lab Job #: 500-81266  
 Chain of Custody Number: \_\_\_\_\_  
 Page 2 of \_\_\_\_\_  
 Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter		Project Location/State		Lab Project #		Sampler		Lab PM		Preservative Key	Comments
Lab ID	M/S/MSD	Sample ID	Date	Time	# of Containers	Matrix	Parameter	Project Location/State	Lab Project #	Sampler	Lab PM	Parameter	Project Location/State	Lab Project #	Sampler		
Weston Solutions Inc				8 8 8 8 8		VOCs SVOCs TOTAL METALS TCUR/SPUR METALS PH		Lake County, IL				M. Dohany-Skubic		D. Wright		1. HCL, Cool to 4°	
1 DOT 046-IL 132 (Grand Ave)																2. H2SO4, Cool to 4°	
PA-2 (0-6)-072514DP		7-25-14		1110		2 S		X X X X X								3. HNO3, Cool to 4°	
PA-1 (0-6)-072514		7-25-14		1130		2 S		X X X X X								4. NaOH, Cool to 4°	
R5-1 (0-4)-072514		7-25-14		1155		2 S		X X X X X								5. NaOH/Zn, Cool to 4°	
R5-1 (4-10)-072514		7-25-14		1200		2 S		X X X X X								6. NaHSO4	
FS-1 (0-7)-072514		7-25-14		1220		2 S		X X X X X								7. Cool to 4°	
VL-8 (0-4)-072514		7-25-14		1240		2 S		X X X X X								8. None	
VL-7 (0-4)-072514		7-25-14		1257		2 S		X X X X X								9. Other	
VL-6 (0-4)-072514		7-25-14		1310		2 S		X X X X X									
VL-5 (0-4)-072514		7-25-14		1325		2 S		X X X X X									
VL-4 (0-6)-072514		7-25-14		1350		2 S		X X X X X									

Turnaround Time Required (Business Days)

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

Requested Due Date

Sample Disposal

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

Relinquished By: <u>[Signature]</u> Company: <u>Weston</u> Date: <u>7-25-14</u> Time: <u>1526</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>7/25/14</u> Time: <u>1526</u>	Lab Courier: <u>TA</u>
Relinquished By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>7/25/14</u> Time: <u>1650</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>7/26/14</u> Time: <u>0630</u>	Shipped: _____
Relinquished By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>7-25-14</u> Time: <u>1831</u>	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:





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 541 (Grand Ave) at Fairfield Rd Office Phone Number, if available: \_\_\_\_\_

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

38157 N. Fairfield Rd

City: Lake Villa 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: 42.417558251 Longitude: -88.106742706

(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 541 (Grand Ave) at Fairfield Rd

Latitude: 42.417558251 Longitude: -88.106742706

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 R5-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2732-5. 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: 500-81266-1

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

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

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

Company Name: Illinois Department of Transportation

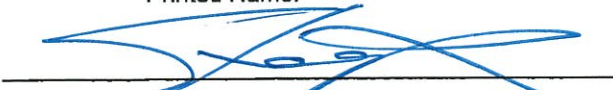
Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Steven Gobelman, P.E., L.P.G.

Printed Name:



Licensed Professional Engineer or  
Licensed Professional Geologist Signature:

2/25/15

Date:



**Summary Table of ISGS Site No. 2732-5**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAP 541 (IL Route 132; Grand Avenue) at Fairfield Road**  
**Unincorporated Lake County, Illinois**

Field Sample ID	R5-1(0-4)-072514	R5-1(4-10)-072514	Soil Reference Concentrations <sup>A</sup>
Sample Date	7/25/2014	7/25/2014	
Location ID	R5-1	R5-1	
Depth	0 - 4	4 - 10	
ISGS Site Number	2732-5	2732-5	
<b>Parameter</b>			
Laboratory pH (standard units)	8.88	8.18	<6.25, >9.0
<b>VOCs (ug/kg)</b>	<b>None Detected</b>		
<b>SVOCs (ug/kg)</b>	<b>None Detected</b>		
<b>Total Metals (mg/kg)</b>			
Arsenic, Total	5.1 J	4.6 J	11.3/13.0
Barium, Total	42 J-	59 J-	1500
Beryllium, Total	0.61	0.51	22
Cadmium, Total	1.1 J	0.99 J	5.2
Chromium, Total	18 J+	15 J+	21
Cobalt, Total	10 J	6.4 J	20
Copper, Total	32 J-	22 J-	2900
Iron, Total	19000 J	16000 J	15000/15900
Lead, Total	11 J-	10 J-	107
Magnesium, Total	34000 J-	39000 J-	325000
Manganese, Total	440 J	500 J	630/636
Mercury, Total	0.013 J	0.013 J	0.89
Nickel, Total	27	21	100
Selenium, Total	ND	ND	1.3
<b>TCLP Metals (mg/l)</b>			
Arsenic, TCLP	ND	ND	0.05
Barium, TCLP	0.33 J	0.46 J	2
Beryllium, TCLP	ND	ND	0.004
Cadmium, TCLP	ND	ND	0.005
Chromium, TCLP	ND	ND	0.1
Cobalt, TCLP	ND	ND	1
Copper, TCLP	ND	ND	0.65
Iron, TCLP	ND	ND	5
Lead, TCLP	ND	ND	0.0075
Manganese, TCLP	1.5	0.98	0.15
Mercury, TCLP	ND	ND	0.002
Nickel, TCLP	ND	ND	0.1
Selenium, TCLP	ND	ND	0.05
<b>SPLP Metals (mg/l)</b>			
Arsenic, SPLP	0.094	ND	0.05
Barium, SPLP	0.74	0.13 J	2
Beryllium, SPLP	0.0087	ND	0.004
Cadmium, SPLP	ND	ND	0.005
Chromium, SPLP	0.23	0.043	0.1
Cobalt, SPLP	0.095	0.013 J	1
Copper, SPLP	0.29	0.044	0.65
Iron, SPLP	220 J+	34 J+	5
Lead, SPLP	0.13	0.018	0.0075
Manganese, SPLP	1.8	0.21	0.15
Mercury, SPLP	0.00023	ND	0.002
Nickel, SPLP	0.28	0.045	0.1
Selenium, SPLP	ND	ND	0.05

**Notes:**

--- - not applicable or value not available.

<sup>A</sup> - 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: 500-81266-1  
Client Project/Site: IDOT - IL Rt. 132 - WO 046

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

Attn: Mr. S. Babusukumar



Authorized for release by:  
8/11/2014 4:30:03 PM

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

### LINKS

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

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

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# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81266-1

**Client Sample ID: R5-1(0-4)-072514**

**Lab Sample ID: 500-81266-13**

**Date Collected: 07/25/14 11:55**

**Matrix: Solid**

**Date Received: 07/26/14 06:30**

**Percent Solids: 85.8**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	60		5.8	2.5	ug/Kg	☼		07/30/14 05:10	1
Benzene	<5.8		5.8	0.80	ug/Kg	☼		07/30/14 05:10	1
Bromodichloromethane	<5.8		5.8	1.0	ug/Kg	☼		07/30/14 05:10	1
Bromoform	<5.8		5.8	1.3	ug/Kg	☼		07/30/14 05:10	1
Bromomethane	<5.8		5.8	1.8	ug/Kg	☼		07/30/14 05:10	1
Carbon disulfide	<5.8		5.8	0.87	ug/Kg	☼		07/30/14 05:10	1
Carbon tetrachloride	<5.8		5.8	1.1	ug/Kg	☼		07/30/14 05:10	1
Chlorobenzene	<5.8		5.8	0.59	ug/Kg	☼		07/30/14 05:10	1
Chloroethane	<5.8		5.8	1.6	ug/Kg	☼		07/30/14 05:10	1
Chloroform	<5.8		5.8	0.67	ug/Kg	☼		07/30/14 05:10	1
Chloromethane	<5.8		5.8	1.2	ug/Kg	☼		07/30/14 05:10	1
cis-1,2-Dichloroethene	<5.8		5.8	0.82	ug/Kg	☼		07/30/14 05:10	1
cis-1,3-Dichloropropene	<5.8		5.8	0.76	ug/Kg	☼		07/30/14 05:10	1
Dibromochloromethane	<5.8		5.8	1.0	ug/Kg	☼		07/30/14 05:10	1
1,1-Dichloroethane	<5.8		5.8	0.92	ug/Kg	☼		07/30/14 05:10	1
1,2-Dichloroethane	<5.8		5.8	0.86	ug/Kg	☼		07/30/14 05:10	1
1,1-Dichloroethene	<5.8		5.8	0.94	ug/Kg	☼		07/30/14 05:10	1
1,2-Dichloropropane	<5.8		5.8	0.88	ug/Kg	☼		07/30/14 05:10	1
1,3-Dichloropropene, Total	<5.8		5.8	0.76	ug/Kg	☼		07/30/14 05:10	1
Ethylbenzene	<5.8		5.8	1.2	ug/Kg	☼		07/30/14 05:10	1
2-Hexanone	<5.8		5.8	1.7	ug/Kg	☼		07/30/14 05:10	1
Methylene Chloride	<5.8		5.8	1.6	ug/Kg	☼		07/30/14 05:10	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		07/30/14 05:10	1
methyl isobutyl ketone	<5.8		5.8	1.5	ug/Kg	☼		07/30/14 05:10	1
Methyl tert-butyl ether	<5.8		5.8	0.96	ug/Kg	☼		07/30/14 05:10	1
Styrene	<5.8		5.8	0.76	ug/Kg	☼		07/30/14 05:10	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	1.2	ug/Kg	☼		07/30/14 05:10	1
Tetrachloroethene	<5.8		5.8	0.89	ug/Kg	☼		07/30/14 05:10	1
Toluene	<5.8		5.8	0.82	ug/Kg	☼		07/30/14 05:10	1
trans-1,2-Dichloroethene	<5.8		5.8	0.80	ug/Kg	☼		07/30/14 05:10	1
trans-1,3-Dichloropropene	<5.8		5.8	1.0	ug/Kg	☼		07/30/14 05:10	1
1,1,1-Trichloroethane	<5.8		5.8	0.87	ug/Kg	☼		07/30/14 05:10	1
1,1,2-Trichloroethane	<5.8		5.8	0.79	ug/Kg	☼		07/30/14 05:10	1
Trichloroethene	<5.8		5.8	0.96	ug/Kg	☼		07/30/14 05:10	1
Vinyl chloride	<5.8		5.8	1.2	ug/Kg	☼		07/30/14 05:10	1
Xylenes, Total	<12		12	0.53	ug/Kg	☼		07/30/14 05:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122		07/30/14 05:10	1
Dibromofluoromethane	103		75 - 120		07/30/14 05:10	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134		07/30/14 05:10	1
Toluene-d8 (Surr)	97		75 - 122		07/30/14 05:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	40	ug/Kg	☼	08/07/14 07:44	08/08/14 23:55	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	08/07/14 07:44	08/08/14 23:55	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	08/07/14 07:44	08/08/14 23:55	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	08/07/14 07:44	08/08/14 23:55	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	08/07/14 07:44	08/08/14 23:55	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81266-1

**Client Sample ID: R5-1(0-4)-072514**

**Lab Sample ID: 500-81266-13**

**Date Collected: 07/25/14 11:55**

**Matrix: Solid**

**Date Received: 07/26/14 06:30**

**Percent Solids: 85.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	85	ug/Kg	☼	08/07/14 07:44	08/08/14 23:55	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	08/07/14 07:44	08/08/14 23:55	1
2,4-Dichlorophenol	<370		370	89	ug/Kg	☼	08/07/14 07:44	08/08/14 23:55	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	08/07/14 07:44	08/08/14 23:55	1
2,4-Dinitrophenol	<750		750	660	ug/Kg	☼	08/07/14 07:44	08/08/14 23:55	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	08/07/14 07:44	08/08/14 23:55	1
2,6-Dinitrotoluene	<190		190	74	ug/Kg	☼	08/07/14 07:44	08/08/14 23:55	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	08/07/14 07:44	08/08/14 23:55	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	08/07/14 07:44	08/08/14 23:55	1
2-Methylnaphthalene	<37		37	6.9	ug/Kg	☼	08/07/14 07:44	08/08/14 23:55	1
2-Methylphenol	<190		190	60	ug/Kg	☼	08/07/14 07:44	08/08/14 23:55	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	08/07/14 07:44	08/08/14 23:55	1
2-Nitrophenol	<370		370	88	ug/Kg	☼	08/07/14 07:44	08/08/14 23:55	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	08/07/14 07:44	08/08/14 23:55	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	08/07/14 07:44	08/08/14 23:55	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	08/07/14 07:44	08/08/14 23:55	1
4,6-Dinitro-2-methylphenol	<370		370	300	ug/Kg	☼	08/07/14 07:44	08/08/14 23:55	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	08/07/14 07:44	08/08/14 23:55	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	08/07/14 07:44	08/08/14 23:55	1
4-Chloroaniline	<750		750	180	ug/Kg	☼	08/07/14 07:44	08/08/14 23:55	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	08/07/14 07:44	08/08/14 23:55	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	08/07/14 07:44	08/08/14 23:55	1
4-Nitrophenol	<750		750	360	ug/Kg	☼	08/07/14 07:44	08/08/14 23:55	1
Acenaphthene	<37		37	6.7	ug/Kg	☼	08/07/14 07:44	08/08/14 23:55	1
Acenaphthylene	<37		37	4.9	ug/Kg	☼	08/07/14 07:44	08/08/14 23:55	1
Anthracene	<37		37	6.3	ug/Kg	☼	08/07/14 07:44	08/08/14 23:55	1
Benzo[a]anthracene	<37		37	5.0	ug/Kg	☼	08/07/14 07:44	08/08/14 23:55	1
Benzo[a]pyrene	<37		37	7.2	ug/Kg	☼	08/07/14 07:44	08/08/14 23:55	1
Benzo[b]fluoranthene	<37		37	8.1	ug/Kg	☼	08/07/14 07:44	08/08/14 23:55	1
Benzo[g,h,i]perylene	<37		37	12	ug/Kg	☼	08/07/14 07:44	08/08/14 23:55	1
Benzo[k]fluoranthene	<37		37	11	ug/Kg	☼	08/07/14 07:44	08/08/14 23:55	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	08/07/14 07:44	08/08/14 23:55	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	08/07/14 07:44	08/08/14 23:55	1
Bis(2-ethylhexyl) phthalate	<190		190	68	ug/Kg	☼	08/07/14 07:44	08/08/14 23:55	1
Butyl benzyl phthalate	<190		190	71	ug/Kg	☼	08/07/14 07:44	08/08/14 23:55	1
Carbazole	<190		190	97	ug/Kg	☼	08/07/14 07:44	08/08/14 23:55	1
Chrysene	<37		37	10	ug/Kg	☼	08/07/14 07:44	08/08/14 23:55	1
Dibenz(a,h)anthracene	<37		37	7.2	ug/Kg	☼	08/07/14 07:44	08/08/14 23:55	1
Dibenzofuran	<190		190	44	ug/Kg	☼	08/07/14 07:44	08/08/14 23:55	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	08/07/14 07:44	08/08/14 23:55	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	08/07/14 07:44	08/08/14 23:55	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	08/07/14 07:44	08/08/14 23:55	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	08/07/14 07:44	08/08/14 23:55	1
Fluoranthene	<37		37	6.9	ug/Kg	☼	08/07/14 07:44	08/08/14 23:55	1
Fluorene	<37		37	5.3	ug/Kg	☼	08/07/14 07:44	08/08/14 23:55	1
Hexachlorobenzene	<75		75	8.7	ug/Kg	☼	08/07/14 07:44	08/08/14 23:55	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	08/07/14 07:44	08/08/14 23:55	1
Hexachlorocyclopentadiene	<750		750	220	ug/Kg	☼	08/07/14 07:44	08/08/14 23:55	1
Hexachloroethane	<190		190	57	ug/Kg	☼	08/07/14 07:44	08/08/14 23:55	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81266-1

**Client Sample ID: R5-1(0-4)-072514**

**Lab Sample ID: 500-81266-13**

Date Collected: 07/25/14 11:55

Matrix: Solid

Date Received: 07/26/14 06:30

Percent Solids: 85.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<37		37	9.7	ug/Kg	☼	08/07/14 07:44	08/08/14 23:55	1
Isophorone	<190		190	42	ug/Kg	☼	08/07/14 07:44	08/08/14 23:55	1
Naphthalene	<37		37	5.8	ug/Kg	☼	08/07/14 07:44	08/08/14 23:55	1
Nitrobenzene	<37		37	9.3	ug/Kg	☼	08/07/14 07:44	08/08/14 23:55	1
N-Nitrosodi-n-propylamine	<190		190	46	ug/Kg	☼	08/07/14 07:44	08/08/14 23:55	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	08/07/14 07:44	08/08/14 23:55	1
Pentachlorophenol	<750		750	600	ug/Kg	☼	08/07/14 07:44	08/08/14 23:55	1
Phenanthrene	<37		37	5.2	ug/Kg	☼	08/07/14 07:44	08/08/14 23:55	1
Phenol	<190		190	83	ug/Kg	☼	08/07/14 07:44	08/08/14 23:55	1
Pyrene	<37		37	7.4	ug/Kg	☼	08/07/14 07:44	08/08/14 23:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	58		35 - 137				08/07/14 07:44	08/08/14 23:55	1
2-Fluorobiphenyl	59		25 - 119				08/07/14 07:44	08/08/14 23:55	1
2-Fluorophenol	63		25 - 110				08/07/14 07:44	08/08/14 23:55	1
Nitrobenzene-d5	56		25 - 115				08/07/14 07:44	08/08/14 23:55	1
Phenol-d5	61		31 - 110				08/07/14 07:44	08/08/14 23:55	1
Terphenyl-d14	109		36 - 134				08/07/14 07:44	08/08/14 23:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		08/05/14 08:30	08/06/14 02:46	1
<b>Barium</b>	<b>0.33</b>	<b>J</b>	0.50	0.050	mg/L		08/05/14 08:30	08/06/14 02:46	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/05/14 08:30	08/06/14 02:46	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/05/14 08:30	08/06/14 02:46	1
Chromium	<0.025		0.025	0.010	mg/L		08/05/14 08:30	08/06/14 02:46	1
Cobalt	<0.025		0.025	0.010	mg/L		08/05/14 08:30	08/06/14 02:46	1
Copper	<0.025		0.025	0.010	mg/L		08/05/14 08:30	08/06/14 02:46	1
Iron	<0.20		0.20	0.20	mg/L		08/05/14 08:30	08/06/14 02:46	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/05/14 08:30	08/06/14 02:46	1
<b>Manganese</b>	<b>1.5</b>		0.025	0.010	mg/L		08/05/14 08:30	08/06/14 02:46	1
Nickel	<0.025		0.025	0.010	mg/L		08/05/14 08:30	08/06/14 02:46	1
Selenium	<0.050		0.050	0.010	mg/L		08/05/14 08:30	08/06/14 02:46	1
Silver	<0.025		0.025	0.010	mg/L		08/05/14 08:30	08/06/14 02:46	1
Zinc	<0.10		0.10	0.020	mg/L		08/05/14 08:30	08/06/14 02:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.094</b>		0.050	0.010	mg/L		08/05/14 10:30	08/06/14 06:05	1
<b>Barium</b>	<b>0.74</b>		0.50	0.050	mg/L		08/05/14 10:30	08/06/14 06:05	1
<b>Beryllium</b>	<b>0.0087</b>		0.0040	0.0040	mg/L		08/05/14 10:30	08/06/14 06:05	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/05/14 10:30	08/06/14 06:05	1
<b>Chromium</b>	<b>0.23</b>		0.025	0.010	mg/L		08/05/14 10:30	08/06/14 06:05	1
<b>Cobalt</b>	<b>0.095</b>		0.025	0.010	mg/L		08/05/14 10:30	08/06/14 06:05	1
<b>Copper</b>	<b>0.29</b>		0.025	0.010	mg/L		08/05/14 10:30	08/06/14 06:05	1
<b>Iron</b>	<b>220</b>		0.20	0.20	mg/L		08/05/14 10:30	08/06/14 06:05	1
<b>Lead</b>	<b>0.13</b>		0.0075	0.0075	mg/L		08/05/14 10:30	08/06/14 06:05	1
<b>Manganese</b>	<b>1.8</b>		0.025	0.010	mg/L		08/05/14 10:30	08/06/14 06:05	1
<b>Nickel</b>	<b>0.28</b>		0.025	0.010	mg/L		08/05/14 10:30	08/06/14 06:05	1
Selenium	<0.050		0.050	0.010	mg/L		08/05/14 10:30	08/06/14 06:05	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81266-1

**Client Sample ID: R5-1(0-4)-072514**

**Lab Sample ID: 500-81266-13**

Date Collected: 07/25/14 11:55

Matrix: Solid

Date Received: 07/26/14 06:30

**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		08/05/14 10:30	08/06/14 06:05	1
Zinc	0.53	B	0.10	0.020	mg/L		08/05/14 10:30	08/06/14 06:05	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.47	mg/Kg	☼	08/01/14 17:50	08/04/14 23:02	1
Arsenic	5.1		0.58	0.12	mg/Kg	☼	08/01/14 17:50	08/04/14 23:02	1
Barium	42		0.58	0.062	mg/Kg	☼	08/01/14 17:50	08/04/14 23:02	1
Beryllium	0.61		0.23	0.046	mg/Kg	☼	08/01/14 17:50	08/04/14 23:02	1
Cadmium	1.1		0.12	0.015	mg/Kg	☼	08/01/14 17:50	08/04/14 23:02	1
Calcium	82000		120	31	mg/Kg	☼	08/01/14 17:50	08/05/14 21:15	10
Chromium	18	B	0.58	0.067	mg/Kg	☼	08/01/14 17:50	08/04/14 23:02	1
Cobalt	10		0.29	0.058	mg/Kg	☼	08/01/14 17:50	08/04/14 23:02	1
Copper	32		0.58	0.12	mg/Kg	☼	08/01/14 17:50	08/04/14 23:02	1
Iron	19000		12	4.8	mg/Kg	☼	08/01/14 17:50	08/04/14 23:02	1
Lead	11	B	0.29	0.086	mg/Kg	☼	08/01/14 17:50	08/04/14 23:02	1
Magnesium	34000		5.8	1.2	mg/Kg	☼	08/01/14 17:50	08/04/14 23:02	1
Manganese	440		0.58	0.12	mg/Kg	☼	08/01/14 17:50	08/04/14 23:02	1
Nickel	27		0.58	0.12	mg/Kg	☼	08/01/14 17:50	08/04/14 23:02	1
Potassium	2500		29	1.7	mg/Kg	☼	08/01/14 17:50	08/04/14 23:02	1
Selenium	<0.58		0.58	0.21	mg/Kg	☼	08/01/14 17:50	08/04/14 23:02	1
Silver	0.035	J	0.29	0.021	mg/Kg	☼	08/01/14 17:50	08/04/14 23:02	1
Sodium	2000		58	7.8	mg/Kg	☼	08/01/14 17:50	08/04/14 23:02	1
Thallium	0.56	J	0.58	0.24	mg/Kg	☼	08/01/14 17:50	08/04/14 23:02	1
Vanadium	21	B	0.29	0.043	mg/Kg	☼	08/01/14 17:50	08/04/14 23:02	1
Zinc	45		1.2	0.23	mg/Kg	☼	08/01/14 17:50	08/04/14 23:02	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		08/05/14 12:00	08/06/14 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.23		0.20	0.20	ug/L		08/05/14 12:00	08/06/14 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	13	J	17	6.8	ug/Kg	☼	08/01/14 12:00	08/04/14 13:07	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.88		0.200	0.200	SU			08/01/14 14:45	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81266-1

**Client Sample ID: R5-1(4-10)-072514**

**Lab Sample ID: 500-81266-14**

**Date Collected: 07/25/14 12:00**

**Matrix: Solid**

**Date Received: 07/26/14 06:30**

**Percent Solids: 86.8**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	15		5.8	2.5	ug/Kg	☼		07/30/14 05:33	1
Benzene	<5.8		5.8	0.79	ug/Kg	☼		07/30/14 05:33	1
Bromodichloromethane	<5.8		5.8	0.99	ug/Kg	☼		07/30/14 05:33	1
Bromoform	<5.8		5.8	1.3	ug/Kg	☼		07/30/14 05:33	1
Bromomethane	<5.8		5.8	1.7	ug/Kg	☼		07/30/14 05:33	1
Carbon disulfide	<5.8		5.8	0.86	ug/Kg	☼		07/30/14 05:33	1
Carbon tetrachloride	<5.8		5.8	1.0	ug/Kg	☼		07/30/14 05:33	1
Chlorobenzene	<5.8		5.8	0.58	ug/Kg	☼		07/30/14 05:33	1
Chloroethane	<5.8		5.8	1.6	ug/Kg	☼		07/30/14 05:33	1
Chloroform	<5.8		5.8	0.66	ug/Kg	☼		07/30/14 05:33	1
Chloromethane	<5.8		5.8	1.2	ug/Kg	☼		07/30/14 05:33	1
cis-1,2-Dichloroethene	<5.8		5.8	0.81	ug/Kg	☼		07/30/14 05:33	1
cis-1,3-Dichloropropene	<5.8		5.8	0.76	ug/Kg	☼		07/30/14 05:33	1
Dibromochloromethane	<5.8		5.8	1.0	ug/Kg	☼		07/30/14 05:33	1
1,1-Dichloroethane	<5.8		5.8	0.91	ug/Kg	☼		07/30/14 05:33	1
1,2-Dichloroethane	<5.8		5.8	0.85	ug/Kg	☼		07/30/14 05:33	1
1,1-Dichloroethene	<5.8		5.8	0.93	ug/Kg	☼		07/30/14 05:33	1
1,2-Dichloropropane	<5.8		5.8	0.87	ug/Kg	☼		07/30/14 05:33	1
1,3-Dichloropropene, Total	<5.8		5.8	0.76	ug/Kg	☼		07/30/14 05:33	1
Ethylbenzene	<5.8		5.8	1.2	ug/Kg	☼		07/30/14 05:33	1
2-Hexanone	<5.8		5.8	1.7	ug/Kg	☼		07/30/14 05:33	1
Methylene Chloride	<5.8		5.8	1.6	ug/Kg	☼		07/30/14 05:33	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		07/30/14 05:33	1
methyl isobutyl ketone	<5.8		5.8	1.5	ug/Kg	☼		07/30/14 05:33	1
Methyl tert-butyl ether	<5.8		5.8	0.95	ug/Kg	☼		07/30/14 05:33	1
Styrene	<5.8		5.8	0.76	ug/Kg	☼		07/30/14 05:33	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	1.2	ug/Kg	☼		07/30/14 05:33	1
Tetrachloroethene	<5.8		5.8	0.88	ug/Kg	☼		07/30/14 05:33	1
Toluene	<5.8		5.8	0.81	ug/Kg	☼		07/30/14 05:33	1
trans-1,2-Dichloroethene	<5.8		5.8	0.79	ug/Kg	☼		07/30/14 05:33	1
trans-1,3-Dichloropropene	<5.8		5.8	1.0	ug/Kg	☼		07/30/14 05:33	1
1,1,1-Trichloroethane	<5.8		5.8	0.86	ug/Kg	☼		07/30/14 05:33	1
1,1,2-Trichloroethane	<5.8		5.8	0.79	ug/Kg	☼		07/30/14 05:33	1
Trichloroethene	<5.8		5.8	0.95	ug/Kg	☼		07/30/14 05:33	1
Vinyl chloride	<5.8		5.8	1.2	ug/Kg	☼		07/30/14 05:33	1
Xylenes, Total	<12		12	0.52	ug/Kg	☼		07/30/14 05:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 122		07/30/14 05:33	1
Dibromofluoromethane	113		75 - 120		07/30/14 05:33	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 134		07/30/14 05:33	1
Toluene-d8 (Surr)	96		75 - 122		07/30/14 05:33	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	40	ug/Kg	☼	08/07/14 07:44	08/09/14 00:14	1
1,2-Dichlorobenzene	<190		190	44	ug/Kg	☼	08/07/14 07:44	08/09/14 00:14	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	08/07/14 07:44	08/09/14 00:14	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	08/07/14 07:44	08/09/14 00:14	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	08/07/14 07:44	08/09/14 00:14	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81266-1

**Client Sample ID: R5-1(4-10)-072514**

**Lab Sample ID: 500-81266-14**

**Date Collected: 07/25/14 12:00**

**Matrix: Solid**

**Date Received: 07/26/14 06:30**

**Percent Solids: 86.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	85	ug/Kg	☼	08/07/14 07:44	08/09/14 00:14	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	08/07/14 07:44	08/09/14 00:14	1
2,4-Dichlorophenol	<370		370	88	ug/Kg	☼	08/07/14 07:44	08/09/14 00:14	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	08/07/14 07:44	08/09/14 00:14	1
2,4-Dinitrophenol	<750		750	650	ug/Kg	☼	08/07/14 07:44	08/09/14 00:14	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	08/07/14 07:44	08/09/14 00:14	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	08/07/14 07:44	08/09/14 00:14	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	08/07/14 07:44	08/09/14 00:14	1
2-Chlorophenol	<190		190	63	ug/Kg	☼	08/07/14 07:44	08/09/14 00:14	1
2-Methylnaphthalene	<37		37	6.8	ug/Kg	☼	08/07/14 07:44	08/09/14 00:14	1
2-Methylphenol	<190		190	59	ug/Kg	☼	08/07/14 07:44	08/09/14 00:14	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	08/07/14 07:44	08/09/14 00:14	1
2-Nitrophenol	<370		370	88	ug/Kg	☼	08/07/14 07:44	08/09/14 00:14	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	08/07/14 07:44	08/09/14 00:14	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	08/07/14 07:44	08/09/14 00:14	1
3-Nitroaniline	<370		370	110	ug/Kg	☼	08/07/14 07:44	08/09/14 00:14	1
4,6-Dinitro-2-methylphenol	<370		370	300	ug/Kg	☼	08/07/14 07:44	08/09/14 00:14	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	08/07/14 07:44	08/09/14 00:14	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	08/07/14 07:44	08/09/14 00:14	1
4-Chloroaniline	<750		750	170	ug/Kg	☼	08/07/14 07:44	08/09/14 00:14	1
4-Chlorophenyl phenyl ether	<190		190	43	ug/Kg	☼	08/07/14 07:44	08/09/14 00:14	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	08/07/14 07:44	08/09/14 00:14	1
4-Nitrophenol	<750		750	350	ug/Kg	☼	08/07/14 07:44	08/09/14 00:14	1
Acenaphthene	<37		37	6.7	ug/Kg	☼	08/07/14 07:44	08/09/14 00:14	1
Acenaphthylene	<37		37	4.9	ug/Kg	☼	08/07/14 07:44	08/09/14 00:14	1
Anthracene	<37		37	6.2	ug/Kg	☼	08/07/14 07:44	08/09/14 00:14	1
Benzo[a]anthracene	<37		37	5.0	ug/Kg	☼	08/07/14 07:44	08/09/14 00:14	1
Benzo[a]pyrene	<37		37	7.2	ug/Kg	☼	08/07/14 07:44	08/09/14 00:14	1
Benzo[b]fluoranthene	<37		37	8.0	ug/Kg	☼	08/07/14 07:44	08/09/14 00:14	1
Benzo[g,h,i]perylene	<37		37	12	ug/Kg	☼	08/07/14 07:44	08/09/14 00:14	1
Benzo[k]fluoranthene	<37		37	11	ug/Kg	☼	08/07/14 07:44	08/09/14 00:14	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	08/07/14 07:44	08/09/14 00:14	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	08/07/14 07:44	08/09/14 00:14	1
Bis(2-ethylhexyl) phthalate	<190		190	68	ug/Kg	☼	08/07/14 07:44	08/09/14 00:14	1
Butyl benzyl phthalate	<190		190	71	ug/Kg	☼	08/07/14 07:44	08/09/14 00:14	1
Carbazole	<190		190	96	ug/Kg	☼	08/07/14 07:44	08/09/14 00:14	1
Chrysene	<37		37	10	ug/Kg	☼	08/07/14 07:44	08/09/14 00:14	1
Dibenz(a,h)anthracene	<37		37	7.2	ug/Kg	☼	08/07/14 07:44	08/09/14 00:14	1
Dibenzofuran	<190		190	43	ug/Kg	☼	08/07/14 07:44	08/09/14 00:14	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	08/07/14 07:44	08/09/14 00:14	1
Dimethyl phthalate	<190		190	48	ug/Kg	☼	08/07/14 07:44	08/09/14 00:14	1
Di-n-butyl phthalate	<190		190	56	ug/Kg	☼	08/07/14 07:44	08/09/14 00:14	1
Di-n-octyl phthalate	<190		190	60	ug/Kg	☼	08/07/14 07:44	08/09/14 00:14	1
Fluoranthene	<37		37	6.9	ug/Kg	☼	08/07/14 07:44	08/09/14 00:14	1
Fluorene	<37		37	5.2	ug/Kg	☼	08/07/14 07:44	08/09/14 00:14	1
Hexachlorobenzene	<75		75	8.6	ug/Kg	☼	08/07/14 07:44	08/09/14 00:14	1
Hexachlorobutadiene	<190		190	58	ug/Kg	☼	08/07/14 07:44	08/09/14 00:14	1
Hexachlorocyclopentadiene	<750		750	210	ug/Kg	☼	08/07/14 07:44	08/09/14 00:14	1
Hexachloroethane	<190		190	56	ug/Kg	☼	08/07/14 07:44	08/09/14 00:14	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81266-1

**Client Sample ID: R5-1(4-10)-072514**

**Lab Sample ID: 500-81266-14**

**Date Collected: 07/25/14 12:00**

**Matrix: Solid**

**Date Received: 07/26/14 06:30**

**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	<37		37	9.6	ug/Kg	☼	08/07/14 07:44	08/09/14 00:14	1
Isophorone	<190		190	42	ug/Kg	☼	08/07/14 07:44	08/09/14 00:14	1
Naphthalene	<37		37	5.7	ug/Kg	☼	08/07/14 07:44	08/09/14 00:14	1
Nitrobenzene	<37		37	9.2	ug/Kg	☼	08/07/14 07:44	08/09/14 00:14	1
N-Nitrosodi-n-propylamine	<190		190	45	ug/Kg	☼	08/07/14 07:44	08/09/14 00:14	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	08/07/14 07:44	08/09/14 00:14	1
Pentachlorophenol	<750		750	590	ug/Kg	☼	08/07/14 07:44	08/09/14 00:14	1
Phenanthrene	<37		37	5.2	ug/Kg	☼	08/07/14 07:44	08/09/14 00:14	1
Phenol	<190		190	82	ug/Kg	☼	08/07/14 07:44	08/09/14 00:14	1
Pyrene	<37		37	7.4	ug/Kg	☼	08/07/14 07:44	08/09/14 00:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	80		35 - 137				08/07/14 07:44	08/09/14 00:14	1
2-Fluorobiphenyl	68		25 - 119				08/07/14 07:44	08/09/14 00:14	1
2-Fluorophenol	73		25 - 110				08/07/14 07:44	08/09/14 00:14	1
Nitrobenzene-d5	67		25 - 115				08/07/14 07:44	08/09/14 00:14	1
Phenol-d5	72		31 - 110				08/07/14 07:44	08/09/14 00:14	1
Terphenyl-d14	135	X	36 - 134				08/07/14 07:44	08/09/14 00:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		08/05/14 08:30	08/06/14 02:52	1
<b>Barium</b>	<b>0.46</b>	<b>J</b>	0.50	0.050	mg/L		08/05/14 08:30	08/06/14 02:52	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/05/14 08:30	08/06/14 02:52	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/05/14 08:30	08/06/14 02:52	1
Chromium	<0.025		0.025	0.010	mg/L		08/05/14 08:30	08/06/14 02:52	1
Cobalt	<0.025		0.025	0.010	mg/L		08/05/14 08:30	08/06/14 02:52	1
Copper	<0.025		0.025	0.010	mg/L		08/05/14 08:30	08/06/14 02:52	1
Iron	<0.20		0.20	0.20	mg/L		08/05/14 08:30	08/06/14 02:52	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/05/14 08:30	08/06/14 02:52	1
<b>Manganese</b>	<b>0.98</b>		0.025	0.010	mg/L		08/05/14 08:30	08/06/14 02:52	1
Nickel	<0.025		0.025	0.010	mg/L		08/05/14 08:30	08/06/14 02:52	1
Selenium	<0.050		0.050	0.010	mg/L		08/05/14 08:30	08/06/14 02:52	1
Silver	<0.025		0.025	0.010	mg/L		08/05/14 08:30	08/06/14 02:52	1
Zinc	<0.10		0.10	0.020	mg/L		08/05/14 08:30	08/06/14 02:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		08/05/14 10:30	08/06/14 06:12	1
<b>Barium</b>	<b>0.13</b>	<b>J</b>	0.50	0.050	mg/L		08/05/14 10:30	08/06/14 06:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/05/14 10:30	08/06/14 06:12	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/05/14 10:30	08/06/14 06:12	1
<b>Chromium</b>	<b>0.043</b>		0.025	0.010	mg/L		08/05/14 10:30	08/06/14 06:12	1
<b>Cobalt</b>	<b>0.013</b>	<b>J</b>	0.025	0.010	mg/L		08/05/14 10:30	08/06/14 06:12	1
<b>Copper</b>	<b>0.044</b>		0.025	0.010	mg/L		08/05/14 10:30	08/06/14 06:12	1
<b>Iron</b>	<b>34</b>		0.20	0.20	mg/L		08/05/14 10:30	08/06/14 06:12	1
<b>Lead</b>	<b>0.018</b>		0.0075	0.0075	mg/L		08/05/14 10:30	08/06/14 06:12	1
<b>Manganese</b>	<b>0.21</b>		0.025	0.010	mg/L		08/05/14 10:30	08/06/14 06:12	1
<b>Nickel</b>	<b>0.045</b>		0.025	0.010	mg/L		08/05/14 10:30	08/06/14 06:12	1
Selenium	<0.050		0.050	0.010	mg/L		08/05/14 10:30	08/06/14 06:12	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81266-1

**Client Sample ID: R5-1(4-10)-072514**

**Lab Sample ID: 500-81266-14**

Date Collected: 07/25/14 12:00

Matrix: Solid

Date Received: 07/26/14 06:30

**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		08/05/14 10:30	08/06/14 06:12	1
<b>Zinc</b>	<b>0.090</b>	<b>J B</b>	0.10	0.020	mg/L		08/05/14 10:30	08/06/14 06:12	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.44	mg/Kg	☼	08/01/14 17:50	08/04/14 23:08	1
<b>Arsenic</b>	<b>4.6</b>		0.54	0.11	mg/Kg	☼	08/01/14 17:50	08/04/14 23:08	1
<b>Barium</b>	<b>59</b>		0.54	0.058	mg/Kg	☼	08/01/14 17:50	08/04/14 23:08	1
<b>Beryllium</b>	<b>0.51</b>		0.22	0.043	mg/Kg	☼	08/01/14 17:50	08/04/14 23:08	1
<b>Cadmium</b>	<b>0.99</b>		0.11	0.014	mg/Kg	☼	08/01/14 17:50	08/04/14 23:08	1
<b>Calcium</b>	<b>95000</b>		110	29	mg/Kg	☼	08/01/14 17:50	08/05/14 21:21	10
<b>Chromium</b>	<b>15</b>	<b>B</b>	0.54	0.063	mg/Kg	☼	08/01/14 17:50	08/04/14 23:08	1
<b>Cobalt</b>	<b>6.4</b>		0.27	0.054	mg/Kg	☼	08/01/14 17:50	08/04/14 23:08	1
<b>Copper</b>	<b>22</b>		0.54	0.11	mg/Kg	☼	08/01/14 17:50	08/04/14 23:08	1
<b>Iron</b>	<b>16000</b>		11	4.4	mg/Kg	☼	08/01/14 17:50	08/04/14 23:08	1
<b>Lead</b>	<b>10</b>	<b>B</b>	0.27	0.081	mg/Kg	☼	08/01/14 17:50	08/04/14 23:08	1
<b>Magnesium</b>	<b>39000</b>		5.4	1.1	mg/Kg	☼	08/01/14 17:50	08/04/14 23:08	1
<b>Manganese</b>	<b>500</b>		0.54	0.11	mg/Kg	☼	08/01/14 17:50	08/04/14 23:08	1
<b>Nickel</b>	<b>21</b>		0.54	0.11	mg/Kg	☼	08/01/14 17:50	08/04/14 23:08	1
<b>Potassium</b>	<b>2500</b>		27	1.6	mg/Kg	☼	08/01/14 17:50	08/04/14 23:08	1
Selenium	<0.54		0.54	0.19	mg/Kg	☼	08/01/14 17:50	08/04/14 23:08	1
<b>Silver</b>	<b>0.040</b>	<b>J</b>	0.27	0.020	mg/Kg	☼	08/01/14 17:50	08/04/14 23:08	1
<b>Sodium</b>	<b>470</b>		54	7.3	mg/Kg	☼	08/01/14 17:50	08/04/14 23:08	1
<b>Thallium</b>	<b>0.57</b>		0.54	0.23	mg/Kg	☼	08/01/14 17:50	08/04/14 23:08	1
<b>Vanadium</b>	<b>19</b>	<b>B</b>	0.27	0.040	mg/Kg	☼	08/01/14 17:50	08/04/14 23:08	1
<b>Zinc</b>	<b>38</b>		1.1	0.22	mg/Kg	☼	08/01/14 17:50	08/04/14 23:08	1

**Method: 7470A - Mercury (CVAA) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		08/05/14 12:00	08/06/14 10:33	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		08/05/14 12:00	08/06/14 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
<b>Mercury</b>	<b>13</b>	<b>J</b>	18	7.0	ug/Kg	☼	08/01/14 12:00	08/04/14 13:09	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.18</b>		0.200	0.200	SU			08/01/14 14:45	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81266-1

## 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.
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
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.
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 - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81266-1

## 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 TESTING

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

Report To (optional)  
Contact: S. Babusukumar  
Company: Weston Solutions Inc.  
Address: 300 Plaza Circle, Ste 202  
Address: Mundelein, IL 60060  
Phone: 224-864-7250  
Fax: 224-864-7234  
E-Mail:

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

## Chain of Custody Record

Lab Job #: 500-81266  
Chain of Custody Number: \_\_\_\_\_  
Page 2 of \_\_\_\_\_  
Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter		Project Location/State		Lab Project #		Sampler		Lab PM		Preservative Key	Comments
Lab ID	M/S/MSD	Sample ID	Date	Time	# of Containers	Matrix	Parameter	Project Location/State	Lab Project #	Sampler	Lab PM	Parameter	Matrix	Matrix	Matrix		
Weston Solutions Inc				8 8		8 8 8		Lake County, IL				M. Dohany-Skubic		D. Wright		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		1 DOT 046 - IL 132 (Grand Ave)															
Project Location/State		Lake County, IL															
Sampler		M. Dohany-Skubic															
Lab ID		M/S/MSD		Sample ID		Date		Time		# of Containers		Matrix					
11		PA-2 (0-6)-072514DP	7-25-14	1110	2	S	X	X	X	X	X	X	X	X			
12		PA-1 (0-6)-072514	7-25-14	1130	2	S	X	X	X	X	X	X	X	X			
13		R5-1 (0-4)-072514	7-25-14	1155	2	S	X	X	X	X	X	X	X	X			
14		R5-1 (4-10)-072514	7-25-14	1200	2	S	X	X	X	X	X	X	X	X			
15		FS-1 (0-7)-072514	7-25-14	1220	2	S	X	X	X	X	X	X	X	X			
16		VL-8 (0-4)-072514	7-25-14	1240	2	S	X	X	X	X	X	X	X	X			
17		VL-7 (0-4)-072514	7-25-14	1257	2	S	X	X	X	X	X	X	X	X			
18		VL-6 (0-4)-072514	7-25-14	1310	2	S	X	X	X	X	X	X	X	X			
19		VL-5 (0-4)-072514	7-25-14	1325	2	S	X	X	X	X	X	X	X	X			
20		VL-4 (0-6)-072514	7-25-14	1350	2	S	X	X	X	X	X	X	X	X			

Turnaround Time Required (Business Days)

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

Requested Due Date

Sample Disposal

Return to Client

Disposal by Lab

Archive for \_\_\_\_\_ Months

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

Relinquished By <u>[Signature]</u> Company: <u>Weston</u> Date: <u>7-25-14</u> Time: <u>1526</u>	Received By <u>[Signature]</u> Company: <u>TA</u> Date: <u>7/25/14</u> Time: <u>1526</u>
Relinquished By <u>[Signature]</u> Company: <u>TA</u> Date: <u>7/25/14</u> Time: <u>1650</u>	Received By <u>[Signature]</u> Company: <u>TA</u> Date: <u>7/26/14</u> Time: <u>0630</u>
Relinquished By <u>[Signature]</u> Company: <u>TA</u> Date: <u>7-25-14</u> Time: <u>1835</u>	Received By <u>[Signature]</u> Company: <u>TA</u> 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 541 (Grand Ave) at Fairfield Rd Office Phone Number, if available: \_\_\_\_\_

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

24236 W. Grand Ave

City: Lake Villa 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: 42.415829283 Longitude: -88.106739201  
(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 541 (Grand Ave) at Fairfield Rd

Latitude: 42.415829283 Longitude: -88.106739201

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 PA-1, PA-2, AND PA-3 WERE SAMPLED ADJACENT TO ISGS SITE No. 2732-6. SEE FIGURES 3-1/3-3 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: 500-81266-1

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

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

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

Company Name: Illinois Department of Transportation

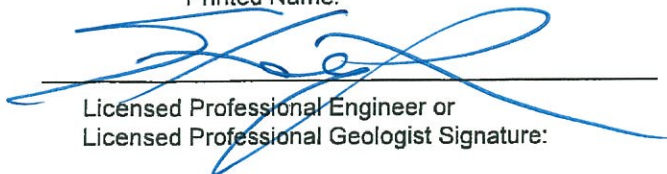
Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Steven Gobelman, P.E., L.P.G.

Printed Name:

  
 Licensed Professional Engineer or  
 Licensed Professional Geologist Signature:

2/25/15  
 Date:



**Summary Table of ISGS Site No. 2732-6**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAP 541 (IL Route 132; Grand Avenue) at Fairfield Road**  
**Unincorporated Lake County, Illinois**

Field Sample ID	PA-1(0-6)-072514	PA-2(0-6)-072514	PA-2(0-6)-072514D	PA-3(0-6)-072514	Soil Reference Concentrations <sup>A</sup>
Sample Date	7/25/2014	7/25/2014	7/25/2014	7/25/2014	
Location ID	PA-1	PA-2	PA-2	PA-3	
Depth	0 - 6	0 - 6	0 - 6	0 - 6	
ISGS Site Number	2732-6	2732-6	2732-6	2732-6	
<b>Parameter</b>					
Laboratory pH (standard units)	7.38	7.97	8.01	8.73	<6.25, >9.0
VOCs (ug/kg)	None Detected				
SVOCs (ug/kg)	No Exceedances				
<b>Total Metals (mg/kg)</b>					
Arsenic, Total	2.6 J	7.4 J	5.7 J	7.1 J	11.3/13.0
Barium, Total	17 J-	52 J-	45 J-	41 J-	1500
Beryllium, Total	0.13 J	0.56	0.46	0.52	22
Cadmium, Total	0.31 J	1.1 J	1 J	1 J	5.2
Chromium, Total	8.5 J+	16 J+	14 J+	15 J+	21
Cobalt, Total	1.9 J	10 J	9.2 J	9.5 J	20
Copper, Total	8.3 J-	25 J-	20 J-	28 J-	2900
Iron, Total	5500 J	19000 J	16000 J	19000 J	15000/15900
Lead, Total	46 J-	26 J-	31 J-	12 J-	107
Magnesium, Total	18000 J-	28000 J-	42000 J-	34000 J-	325000
Manganese, Total	140 J	580 J	570 J	490 J	630/636
Mercury, Total	0.018 J	0.014 J	0.015 J	0.012 J	0.89
Nickel, Total	5.2	22	19	26	100
Selenium, Total	0.56 J	ND	ND	ND	1.3
<b>TCLP Metals (mg/l)</b>					
Arsenic, TCLP	ND	ND	ND	ND	0.05
Barium, TCLP	0.13 J	0.39 J	0.35 J	0.38 J	2
Beryllium, TCLP	ND	ND	ND	ND	0.004
Cadmium, TCLP	ND	ND	ND	ND	0.005
Chromium, TCLP	ND	ND	ND	ND	0.1
Cobalt, TCLP	ND	0.01 J	ND	ND	1
Copper, TCLP	ND	0.013 J	ND	ND	0.65
Iron, TCLP	0.5	ND	ND	ND	5
Lead, TCLP	ND	ND	ND	ND	0.0075
Manganese, TCLP	0.68	3.4 J	1.8 J	0.77	0.15
Mercury, TCLP	ND	ND	ND	ND	0.002
Nickel, TCLP	ND	ND	ND	ND	0.1
Selenium, TCLP	ND	ND	ND	ND	0.05
<b>SPLP Metals (mg/l)</b>					
Arsenic, SPLP	ND	ND	ND	0.068	0.05
Barium, SPLP	ND	0.069 J	0.065 J	0.51	2
Beryllium, SPLP	ND	ND	ND	0.0075	0.004
Cadmium, SPLP	ND	ND	ND	ND	0.005
Chromium, SPLP	0.014 J	0.015 J	0.017 J	0.17	0.1
Cobalt, SPLP	ND	ND	ND	0.045	1
Copper, SPLP	0.015 J	0.016 J	0.019 J	0.22	0.65
Iron, SPLP	8.7 J+	11 J+	13 J+	160 J+	5
Lead, SPLP	0.057	0.028 J	0.048 J	0.075	0.0075
Manganese, SPLP	0.11	0.09	0.12	0.73	0.15
Mercury, SPLP	ND	ND	ND	ND	0.002
Nickel, SPLP	ND	0.013 J	0.017 J	0.18	0.1
Selenium, SPLP	ND	ND	ND	ND	0.05

**Notes:**

--- - not applicable or value not available.

<sup>A</sup> - 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: 500-81266-1  
Client Project/Site: IDOT - IL Rt. 132 - WO 046

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

Attn: Mr. S. Babusukumar



Authorized for release by:  
8/11/2014 4:30:03 PM

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

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://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
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- 15

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81266-1

**Client Sample ID: PA-3(0-6)-072514**

**Lab Sample ID: 500-81266-9**

**Date Collected: 07/25/14 10:30**

**Matrix: Solid**

**Date Received: 07/26/14 06:30**

**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	☼		07/30/14 03:39	1
Benzene	<5.8		5.8	0.80	ug/Kg	☼		07/30/14 03:39	1
Bromodichloromethane	<5.8		5.8	1.0	ug/Kg	☼		07/30/14 03:39	1
Bromoform	<5.8		5.8	1.3	ug/Kg	☼		07/30/14 03:39	1
Bromomethane	<5.8		5.8	1.8	ug/Kg	☼		07/30/14 03:39	1
Carbon disulfide	<5.8		5.8	0.87	ug/Kg	☼		07/30/14 03:39	1
Carbon tetrachloride	<5.8		5.8	1.1	ug/Kg	☼		07/30/14 03:39	1
Chlorobenzene	<5.8		5.8	0.59	ug/Kg	☼		07/30/14 03:39	1
Chloroethane	<5.8		5.8	1.6	ug/Kg	☼		07/30/14 03:39	1
Chloroform	<5.8		5.8	0.67	ug/Kg	☼		07/30/14 03:39	1
Chloromethane	<5.8		5.8	1.2	ug/Kg	☼		07/30/14 03:39	1
cis-1,2-Dichloroethene	<5.8		5.8	0.83	ug/Kg	☼		07/30/14 03:39	1
cis-1,3-Dichloropropene	<5.8		5.8	0.77	ug/Kg	☼		07/30/14 03:39	1
Dibromochloromethane	<5.8		5.8	1.0	ug/Kg	☼		07/30/14 03:39	1
1,1-Dichloroethane	<5.8		5.8	0.92	ug/Kg	☼		07/30/14 03:39	1
1,2-Dichloroethane	<5.8		5.8	0.87	ug/Kg	☼		07/30/14 03:39	1
1,1,1-Dichloroethene	<5.8		5.8	0.94	ug/Kg	☼		07/30/14 03:39	1
1,2-Dichloropropane	<5.8		5.8	0.89	ug/Kg	☼		07/30/14 03:39	1
1,3-Dichloropropene, Total	<5.8		5.8	0.77	ug/Kg	☼		07/30/14 03:39	1
Ethylbenzene	<5.8		5.8	1.2	ug/Kg	☼		07/30/14 03:39	1
2-Hexanone	<5.8		5.8	1.7	ug/Kg	☼		07/30/14 03:39	1
Methylene Chloride	<5.8		5.8	1.6	ug/Kg	☼		07/30/14 03:39	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		07/30/14 03:39	1
methyl isobutyl ketone	<5.8		5.8	1.5	ug/Kg	☼		07/30/14 03:39	1
Methyl tert-butyl ether	<5.8		5.8	0.96	ug/Kg	☼		07/30/14 03:39	1
Styrene	<5.8		5.8	0.77	ug/Kg	☼		07/30/14 03:39	1
1,1,1,2-Tetrachloroethane	<5.8		5.8	1.2	ug/Kg	☼		07/30/14 03:39	1
Tetrachloroethene	<5.8		5.8	0.89	ug/Kg	☼		07/30/14 03:39	1
Toluene	<5.8		5.8	0.82	ug/Kg	☼		07/30/14 03:39	1
trans-1,2-Dichloroethene	<5.8		5.8	0.80	ug/Kg	☼		07/30/14 03:39	1
trans-1,3-Dichloropropene	<5.8		5.8	1.0	ug/Kg	☼		07/30/14 03:39	1
1,1,1-Trichloroethane	<5.8		5.8	0.87	ug/Kg	☼		07/30/14 03:39	1
1,1,2-Trichloroethane	<5.8		5.8	0.80	ug/Kg	☼		07/30/14 03:39	1
Trichloroethene	<5.8		5.8	0.96	ug/Kg	☼		07/30/14 03:39	1
Vinyl chloride	<5.8		5.8	1.2	ug/Kg	☼		07/30/14 03:39	1
Xylenes, Total	<12		12	0.53	ug/Kg	☼		07/30/14 03:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122		07/30/14 03:39	1
Dibromofluoromethane	112		75 - 120		07/30/14 03:39	1
1,2-Dichloroethane-d4 (Surr)	114		70 - 134		07/30/14 03:39	1
Toluene-d8 (Surr)	96		75 - 122		07/30/14 03:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	41	ug/Kg	☼	08/07/14 07:44	08/08/14 23:35	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	08/07/14 07:44	08/08/14 23:35	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	08/07/14 07:44	08/08/14 23:35	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	08/07/14 07:44	08/08/14 23:35	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	08/07/14 07:44	08/08/14 23:35	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81266-1

**Client Sample ID: PA-3(0-6)-072514**

**Lab Sample ID: 500-81266-9**

**Date Collected: 07/25/14 10:30**

**Matrix: Solid**

**Date Received: 07/26/14 06:30**

**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	<380		380	86	ug/Kg	☼	08/07/14 07:44	08/08/14 23:35	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	08/07/14 07:44	08/08/14 23:35	1
2,4-Dichlorophenol	<380		380	90	ug/Kg	☼	08/07/14 07:44	08/08/14 23:35	1
2,4-Dimethylphenol	<380		380	140	ug/Kg	☼	08/07/14 07:44	08/08/14 23:35	1
2,4-Dinitrophenol	<760		760	660	ug/Kg	☼	08/07/14 07:44	08/08/14 23:35	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	08/07/14 07:44	08/08/14 23:35	1
2,6-Dinitrotoluene	<190		190	74	ug/Kg	☼	08/07/14 07:44	08/08/14 23:35	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	08/07/14 07:44	08/08/14 23:35	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	08/07/14 07:44	08/08/14 23:35	1
2-Methylnaphthalene	<38		38	6.9	ug/Kg	☼	08/07/14 07:44	08/08/14 23:35	1
2-Methylphenol	<190		190	61	ug/Kg	☼	08/07/14 07:44	08/08/14 23:35	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	08/07/14 07:44	08/08/14 23:35	1
2-Nitrophenol	<380		380	89	ug/Kg	☼	08/07/14 07:44	08/08/14 23:35	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	08/07/14 07:44	08/08/14 23:35	1
3,3'-Dichlorobenzidine	<190		190	53	ug/Kg	☼	08/07/14 07:44	08/08/14 23:35	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	08/07/14 07:44	08/08/14 23:35	1
4,6-Dinitro-2-methylphenol	<380		380	300	ug/Kg	☼	08/07/14 07:44	08/08/14 23:35	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	08/07/14 07:44	08/08/14 23:35	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	08/07/14 07:44	08/08/14 23:35	1
4-Chloroaniline	<760		760	180	ug/Kg	☼	08/07/14 07:44	08/08/14 23:35	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	08/07/14 07:44	08/08/14 23:35	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	08/07/14 07:44	08/08/14 23:35	1
4-Nitrophenol	<760		760	360	ug/Kg	☼	08/07/14 07:44	08/08/14 23:35	1
Acenaphthene	<38		38	6.8	ug/Kg	☼	08/07/14 07:44	08/08/14 23:35	1
Acenaphthylene	<38		38	5.0	ug/Kg	☼	08/07/14 07:44	08/08/14 23:35	1
Anthracene	<38		38	6.3	ug/Kg	☼	08/07/14 07:44	08/08/14 23:35	1
Benzo[a]anthracene	<38		38	5.1	ug/Kg	☼	08/07/14 07:44	08/08/14 23:35	1
Benzo[a]pyrene	<38		38	7.3	ug/Kg	☼	08/07/14 07:44	08/08/14 23:35	1
Benzo[b]fluoranthene	<38		38	8.2	ug/Kg	☼	08/07/14 07:44	08/08/14 23:35	1
Benzo[g,h,i]perylene	<38		38	12	ug/Kg	☼	08/07/14 07:44	08/08/14 23:35	1
Benzo[k]fluoranthene	<38		38	11	ug/Kg	☼	08/07/14 07:44	08/08/14 23:35	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	08/07/14 07:44	08/08/14 23:35	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	08/07/14 07:44	08/08/14 23:35	1
Bis(2-ethylhexyl) phthalate	<190		190	69	ug/Kg	☼	08/07/14 07:44	08/08/14 23:35	1
Butyl benzyl phthalate	<190		190	72	ug/Kg	☼	08/07/14 07:44	08/08/14 23:35	1
Carbazole	<190		190	98	ug/Kg	☼	08/07/14 07:44	08/08/14 23:35	1
Chrysene	<38		38	10	ug/Kg	☼	08/07/14 07:44	08/08/14 23:35	1
Dibenz(a,h)anthracene	<38		38	7.3	ug/Kg	☼	08/07/14 07:44	08/08/14 23:35	1
Dibenzofuran	<190		190	44	ug/Kg	☼	08/07/14 07:44	08/08/14 23:35	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	08/07/14 07:44	08/08/14 23:35	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	08/07/14 07:44	08/08/14 23:35	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	08/07/14 07:44	08/08/14 23:35	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	08/07/14 07:44	08/08/14 23:35	1
Fluoranthene	<38		38	7.0	ug/Kg	☼	08/07/14 07:44	08/08/14 23:35	1
Fluorene	<38		38	5.3	ug/Kg	☼	08/07/14 07:44	08/08/14 23:35	1
Hexachlorobenzene	<76		76	8.8	ug/Kg	☼	08/07/14 07:44	08/08/14 23:35	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	08/07/14 07:44	08/08/14 23:35	1
Hexachlorocyclopentadiene	<760		760	220	ug/Kg	☼	08/07/14 07:44	08/08/14 23:35	1
Hexachloroethane	<190		190	57	ug/Kg	☼	08/07/14 07:44	08/08/14 23:35	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81266-1

**Client Sample ID: PA-3(0-6)-072514**

**Lab Sample ID: 500-81266-9**

**Date Collected: 07/25/14 10:30**

**Matrix: Solid**

**Date Received: 07/26/14 06:30**

**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	<38		38	9.8	ug/Kg	☼	08/07/14 07:44	08/08/14 23:35	1
Isophorone	<190		190	42	ug/Kg	☼	08/07/14 07:44	08/08/14 23:35	1
Naphthalene	<38		38	5.8	ug/Kg	☼	08/07/14 07:44	08/08/14 23:35	1
Nitrobenzene	<38		38	9.4	ug/Kg	☼	08/07/14 07:44	08/08/14 23:35	1
N-Nitrosodi-n-propylamine	<190		190	46	ug/Kg	☼	08/07/14 07:44	08/08/14 23:35	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	08/07/14 07:44	08/08/14 23:35	1
Pentachlorophenol	<760		760	610	ug/Kg	☼	08/07/14 07:44	08/08/14 23:35	1
Phenanthrene	<38		38	5.3	ug/Kg	☼	08/07/14 07:44	08/08/14 23:35	1
Phenol	<190		190	84	ug/Kg	☼	08/07/14 07:44	08/08/14 23:35	1
Pyrene	<38		38	7.5	ug/Kg	☼	08/07/14 07:44	08/08/14 23:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	70		35 - 137				08/07/14 07:44	08/08/14 23:35	1
2-Fluorobiphenyl	49		25 - 119				08/07/14 07:44	08/08/14 23:35	1
2-Fluorophenol	49		25 - 110				08/07/14 07:44	08/08/14 23:35	1
Nitrobenzene-d5	45		25 - 115				08/07/14 07:44	08/08/14 23:35	1
Phenol-d5	53		31 - 110				08/07/14 07:44	08/08/14 23:35	1
Terphenyl-d14	93		36 - 134				08/07/14 07:44	08/08/14 23:35	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		08/05/14 08:30	08/06/14 02:20	1
<b>Barium</b>	<b>0.38</b>	<b>J</b>	0.50	0.050	mg/L		08/05/14 08:30	08/06/14 02:20	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/05/14 08:30	08/06/14 02:20	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/05/14 08:30	08/06/14 02:20	1
Chromium	<0.025		0.025	0.010	mg/L		08/05/14 08:30	08/06/14 02:20	1
Cobalt	<0.025		0.025	0.010	mg/L		08/05/14 08:30	08/06/14 02:20	1
Copper	<0.025		0.025	0.010	mg/L		08/05/14 08:30	08/06/14 02:20	1
Iron	<0.20		0.20	0.20	mg/L		08/05/14 08:30	08/06/14 02:20	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/05/14 08:30	08/06/14 02:20	1
<b>Manganese</b>	<b>0.77</b>		0.025	0.010	mg/L		08/05/14 08:30	08/06/14 02:20	1
Nickel	<0.025		0.025	0.010	mg/L		08/05/14 08:30	08/06/14 02:20	1
Selenium	<0.050		0.050	0.010	mg/L		08/05/14 08:30	08/06/14 02:20	1
Silver	<0.025		0.025	0.010	mg/L		08/05/14 08:30	08/06/14 02:20	1
Zinc	<0.10		0.10	0.020	mg/L		08/05/14 08:30	08/06/14 02:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.068</b>		0.050	0.010	mg/L		08/05/14 10:30	08/06/14 05:24	1
<b>Barium</b>	<b>0.51</b>		0.50	0.050	mg/L		08/05/14 10:30	08/06/14 05:24	1
<b>Beryllium</b>	<b>0.0075</b>		0.0040	0.0040	mg/L		08/05/14 10:30	08/06/14 05:24	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/05/14 10:30	08/06/14 05:24	1
<b>Chromium</b>	<b>0.17</b>		0.025	0.010	mg/L		08/05/14 10:30	08/06/14 05:24	1
<b>Cobalt</b>	<b>0.045</b>		0.025	0.010	mg/L		08/05/14 10:30	08/06/14 05:24	1
<b>Copper</b>	<b>0.22</b>		0.025	0.010	mg/L		08/05/14 10:30	08/06/14 05:24	1
<b>Iron</b>	<b>160</b>		0.20	0.20	mg/L		08/05/14 10:30	08/06/14 05:24	1
<b>Lead</b>	<b>0.075</b>		0.0075	0.0075	mg/L		08/05/14 10:30	08/06/14 05:24	1
<b>Manganese</b>	<b>0.73</b>		0.025	0.010	mg/L		08/05/14 10:30	08/06/14 05:24	1
<b>Nickel</b>	<b>0.18</b>		0.025	0.010	mg/L		08/05/14 10:30	08/06/14 05:24	1
Selenium	<0.050		0.050	0.010	mg/L		08/05/14 10:30	08/06/14 05:24	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81266-1

**Client Sample ID: PA-3(0-6)-072514**

**Lab Sample ID: 500-81266-9**

Date Collected: 07/25/14 10:30

Matrix: Solid

Date Received: 07/26/14 06:30

**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		08/05/14 10:30	08/06/14 05:24	1
Zinc	0.39	B	0.10	0.020	mg/L		08/05/14 10:30	08/06/14 05:24	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.44	mg/Kg	☼	08/01/14 17:50	08/04/14 22:37	1
Arsenic	7.1		0.55	0.11	mg/Kg	☼	08/01/14 17:50	08/04/14 22:37	1
Barium	41		0.55	0.059	mg/Kg	☼	08/01/14 17:50	08/04/14 22:37	1
Beryllium	0.52		0.22	0.044	mg/Kg	☼	08/01/14 17:50	08/04/14 22:37	1
Cadmium	1.0		0.11	0.014	mg/Kg	☼	08/01/14 17:50	08/04/14 22:37	1
Calcium	74000		110	30	mg/Kg	☼	08/01/14 17:50	08/05/14 20:56	10
Chromium	15	B	0.55	0.064	mg/Kg	☼	08/01/14 17:50	08/04/14 22:37	1
Cobalt	9.5		0.28	0.055	mg/Kg	☼	08/01/14 17:50	08/04/14 22:37	1
Copper	28		0.55	0.11	mg/Kg	☼	08/01/14 17:50	08/04/14 22:37	1
Iron	19000		11	4.5	mg/Kg	☼	08/01/14 17:50	08/04/14 22:37	1
Lead	12	B	0.28	0.082	mg/Kg	☼	08/01/14 17:50	08/04/14 22:37	1
Magnesium	34000		5.5	1.1	mg/Kg	☼	08/01/14 17:50	08/04/14 22:37	1
Manganese	490		0.55	0.11	mg/Kg	☼	08/01/14 17:50	08/04/14 22:37	1
Nickel	26		0.55	0.11	mg/Kg	☼	08/01/14 17:50	08/04/14 22:37	1
Potassium	2200		28	1.7	mg/Kg	☼	08/01/14 17:50	08/04/14 22:37	1
Selenium	<0.55		0.55	0.20	mg/Kg	☼	08/01/14 17:50	08/04/14 22:37	1
Silver	0.066	J	0.28	0.020	mg/Kg	☼	08/01/14 17:50	08/04/14 22:37	1
Sodium	1700		55	7.4	mg/Kg	☼	08/01/14 17:50	08/04/14 22:37	1
Thallium	0.81		0.55	0.23	mg/Kg	☼	08/01/14 17:50	08/04/14 22:37	1
Vanadium	19	B	0.28	0.041	mg/Kg	☼	08/01/14 17:50	08/04/14 22:37	1
Zinc	39		1.1	0.22	mg/Kg	☼	08/01/14 17:50	08/04/14 22:37	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		08/05/14 12:00	08/06/14 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		08/05/14 12:00	08/06/14 11:17	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	7.4	ug/Kg	☼	08/01/14 12:00	08/04/14 12:55	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.73		0.200	0.200	SU			08/01/14 14:45	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81266-1

**Client Sample ID: PA-2(0-6)-072514**

**Lab Sample ID: 500-81266-10**

**Date Collected: 07/25/14 11:10**

**Matrix: Solid**

**Date Received: 07/26/14 06:30**

**Percent Solids: 67.5**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>99</b>		7.4	3.2	ug/Kg	☼		07/30/14 04:02	1
Benzene	<7.4		7.4	1.0	ug/Kg	☼		07/30/14 04:02	1
Bromodichloromethane	<7.4		7.4	1.3	ug/Kg	☼		07/30/14 04:02	1
Bromoform	<7.4		7.4	1.7	ug/Kg	☼		07/30/14 04:02	1
Bromomethane	<7.4		7.4	2.2	ug/Kg	☼		07/30/14 04:02	1
Carbon disulfide	<7.4		7.4	1.1	ug/Kg	☼		07/30/14 04:02	1
Carbon tetrachloride	<7.4		7.4	1.3	ug/Kg	☼		07/30/14 04:02	1
Chlorobenzene	<7.4		7.4	0.75	ug/Kg	☼		07/30/14 04:02	1
Chloroethane	<7.4		7.4	2.0	ug/Kg	☼		07/30/14 04:02	1
Chloroform	<7.4		7.4	0.85	ug/Kg	☼		07/30/14 04:02	1
Chloromethane	<7.4		7.4	1.6	ug/Kg	☼		07/30/14 04:02	1
cis-1,2-Dichloroethene	<7.4		7.4	1.0	ug/Kg	☼		07/30/14 04:02	1
cis-1,3-Dichloropropene	<7.4		7.4	0.97	ug/Kg	☼		07/30/14 04:02	1
Dibromochloromethane	<7.4		7.4	1.3	ug/Kg	☼		07/30/14 04:02	1
1,1-Dichloroethane	<7.4		7.4	1.2	ug/Kg	☼		07/30/14 04:02	1
1,2-Dichloroethane	<7.4		7.4	1.1	ug/Kg	☼		07/30/14 04:02	1
1,1-Dichloroethene	<7.4		7.4	1.2	ug/Kg	☼		07/30/14 04:02	1
1,2-Dichloropropane	<7.4		7.4	1.1	ug/Kg	☼		07/30/14 04:02	1
1,3-Dichloropropene, Total	<7.4		7.4	0.97	ug/Kg	☼		07/30/14 04:02	1
Ethylbenzene	<7.4		7.4	1.5	ug/Kg	☼		07/30/14 04:02	1
2-Hexanone	<7.4		7.4	2.1	ug/Kg	☼		07/30/14 04:02	1
Methylene Chloride	<7.4		7.4	2.0	ug/Kg	☼		07/30/14 04:02	1
<b>Methyl Ethyl Ketone</b>	<b>14</b>		7.4	2.7	ug/Kg	☼		07/30/14 04:02	1
methyl isobutyl ketone	<7.4		7.4	1.9	ug/Kg	☼		07/30/14 04:02	1
Methyl tert-butyl ether	<7.4		7.4	1.2	ug/Kg	☼		07/30/14 04:02	1
Styrene	<7.4		7.4	0.97	ug/Kg	☼		07/30/14 04:02	1
1,1,2,2-Tetrachloroethane	<7.4		7.4	1.5	ug/Kg	☼		07/30/14 04:02	1
Tetrachloroethene	<7.4		7.4	1.1	ug/Kg	☼		07/30/14 04:02	1
Toluene	<7.4		7.4	1.0	ug/Kg	☼		07/30/14 04:02	1
trans-1,2-Dichloroethene	<7.4		7.4	1.0	ug/Kg	☼		07/30/14 04:02	1
trans-1,3-Dichloropropene	<7.4		7.4	1.3	ug/Kg	☼		07/30/14 04:02	1
1,1,1-Trichloroethane	<7.4		7.4	1.1	ug/Kg	☼		07/30/14 04:02	1
1,1,2-Trichloroethane	<7.4		7.4	1.0	ug/Kg	☼		07/30/14 04:02	1
Trichloroethene	<7.4		7.4	1.2	ug/Kg	☼		07/30/14 04:02	1
Vinyl chloride	<7.4		7.4	1.6	ug/Kg	☼		07/30/14 04:02	1
Xylenes, Total	<15		15	0.67	ug/Kg	☼		07/30/14 04:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 122		07/30/14 04:02	1
Dibromofluoromethane	108		75 - 120		07/30/14 04:02	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134		07/30/14 04:02	1
Toluene-d8 (Surr)	96		75 - 122		07/30/14 04:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<240		240	51	ug/Kg	☼	08/07/14 07:44	08/08/14 08:05	1
1,2-Dichlorobenzene	<240		240	57	ug/Kg	☼	08/07/14 07:44	08/08/14 08:05	1
1,3-Dichlorobenzene	<240		240	54	ug/Kg	☼	08/07/14 07:44	08/08/14 08:05	1
1,4-Dichlorobenzene	<240		240	61	ug/Kg	☼	08/07/14 07:44	08/08/14 08:05	1
2,2'-oxybis[1-chloropropane]	<240		240	55	ug/Kg	☼	08/07/14 07:44	08/08/14 08:05	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81266-1

**Client Sample ID: PA-2(0-6)-072514**

**Lab Sample ID: 500-81266-10**

**Date Collected: 07/25/14 11:10**

**Matrix: Solid**

**Date Received: 07/26/14 06:30**

**Percent Solids: 67.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<470		470	110	ug/Kg	☼	08/07/14 07:44	08/08/14 08:05	1
2,4,6-Trichlorophenol	<470		470	160	ug/Kg	☼	08/07/14 07:44	08/08/14 08:05	1
2,4-Dichlorophenol	<470		470	110	ug/Kg	☼	08/07/14 07:44	08/08/14 08:05	1
2,4-Dimethylphenol	<470		470	180	ug/Kg	☼	08/07/14 07:44	08/08/14 08:05	1
2,4-Dinitrophenol	<960		960	840	ug/Kg	☼	08/07/14 07:44	08/08/14 08:05	1
2,4-Dinitrotoluene	<240		240	76	ug/Kg	☼	08/07/14 07:44	08/08/14 08:05	1
2,6-Dinitrotoluene	<240		240	94	ug/Kg	☼	08/07/14 07:44	08/08/14 08:05	1
2-Chloronaphthalene	<240		240	53	ug/Kg	☼	08/07/14 07:44	08/08/14 08:05	1
2-Chlorophenol	<240		240	81	ug/Kg	☼	08/07/14 07:44	08/08/14 08:05	1
2-Methylnaphthalene	<47		47	8.8	ug/Kg	☼	08/07/14 07:44	08/08/14 08:05	1
2-Methylphenol	<240		240	76	ug/Kg	☼	08/07/14 07:44	08/08/14 08:05	1
2-Nitroaniline	<240		240	64	ug/Kg	☼	08/07/14 07:44	08/08/14 08:05	1
2-Nitrophenol	<470		470	110	ug/Kg	☼	08/07/14 07:44	08/08/14 08:05	1
3 & 4 Methylphenol	<240		240	79	ug/Kg	☼	08/07/14 07:44	08/08/14 08:05	1
3,3'-Dichlorobenzidine	<240		240	67	ug/Kg	☼	08/07/14 07:44	08/08/14 08:05	1
3-Nitroaniline	<470		470	150	ug/Kg	☼	08/07/14 07:44	08/08/14 08:05	1
4,6-Dinitro-2-methylphenol	<470		470	380	ug/Kg	☼	08/07/14 07:44	08/08/14 08:05	1
4-Bromophenyl phenyl ether	<240		240	63	ug/Kg	☼	08/07/14 07:44	08/08/14 08:05	1
4-Chloro-3-methylphenol	<470		470	160	ug/Kg	☼	08/07/14 07:44	08/08/14 08:05	1
4-Chloroaniline	<960		960	220	ug/Kg	☼	08/07/14 07:44	08/08/14 08:05	1
4-Chlorophenyl phenyl ether	<240		240	56	ug/Kg	☼	08/07/14 07:44	08/08/14 08:05	1
4-Nitroaniline	<470		470	200	ug/Kg	☼	08/07/14 07:44	08/08/14 08:05	1
4-Nitrophenol	<960		960	450	ug/Kg	☼	08/07/14 07:44	08/08/14 08:05	1
Acenaphthene	<47		47	8.6	ug/Kg	☼	08/07/14 07:44	08/08/14 08:05	1
Acenaphthylene	<47		47	6.3	ug/Kg	☼	08/07/14 07:44	08/08/14 08:05	1
Anthracene	<47		47	8.0	ug/Kg	☼	08/07/14 07:44	08/08/14 08:05	1
Benzo[a]anthracene	<47		47	6.4	ug/Kg	☼	08/07/14 07:44	08/08/14 08:05	1
Benzo[a]pyrene	<47		47	9.2	ug/Kg	☼	08/07/14 07:44	08/08/14 08:05	1
<b>Benzo[b]fluoranthene</b>	<b>12 J</b>		47	10	ug/Kg	☼	08/07/14 07:44	08/08/14 08:05	1
Benzo[g,h,i]perylene	<47		47	15	ug/Kg	☼	08/07/14 07:44	08/08/14 08:05	1
Benzo[k]fluoranthene	<47		47	14	ug/Kg	☼	08/07/14 07:44	08/08/14 08:05	1
Bis(2-chloroethoxy)methane	<240		240	49	ug/Kg	☼	08/07/14 07:44	08/08/14 08:05	1
Bis(2-chloroethyl)ether	<240		240	71	ug/Kg	☼	08/07/14 07:44	08/08/14 08:05	1
Bis(2-ethylhexyl) phthalate	<240		240	87	ug/Kg	☼	08/07/14 07:44	08/08/14 08:05	1
Butyl benzyl phthalate	<240		240	91	ug/Kg	☼	08/07/14 07:44	08/08/14 08:05	1
Carbazole	<240		240	120	ug/Kg	☼	08/07/14 07:44	08/08/14 08:05	1
Chrysene	<47		47	13	ug/Kg	☼	08/07/14 07:44	08/08/14 08:05	1
Dibenz(a,h)anthracene	<47		47	9.2	ug/Kg	☼	08/07/14 07:44	08/08/14 08:05	1
Dibenzofuran	<240		240	56	ug/Kg	☼	08/07/14 07:44	08/08/14 08:05	1
Diethyl phthalate	<240		240	81	ug/Kg	☼	08/07/14 07:44	08/08/14 08:05	1
Dimethyl phthalate	<240		240	62	ug/Kg	☼	08/07/14 07:44	08/08/14 08:05	1
Di-n-butyl phthalate	<240		240	73	ug/Kg	☼	08/07/14 07:44	08/08/14 08:05	1
Di-n-octyl phthalate	<240		240	78	ug/Kg	☼	08/07/14 07:44	08/08/14 08:05	1
Fluoranthene	<47		47	8.8	ug/Kg	☼	08/07/14 07:44	08/08/14 08:05	1
Fluorene	<47		47	6.7	ug/Kg	☼	08/07/14 07:44	08/08/14 08:05	1
Hexachlorobenzene	<96		96	11	ug/Kg	☼	08/07/14 07:44	08/08/14 08:05	1
Hexachlorobutadiene	<240		240	75	ug/Kg	☼	08/07/14 07:44	08/08/14 08:05	1
Hexachlorocyclopentadiene	<960		960	270	ug/Kg	☼	08/07/14 07:44	08/08/14 08:05	1
Hexachloroethane	<240		240	72	ug/Kg	☼	08/07/14 07:44	08/08/14 08:05	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81266-1

**Client Sample ID: PA-2(0-6)-072514**

**Lab Sample ID: 500-81266-10**

Date Collected: 07/25/14 11:10

Matrix: Solid

Date Received: 07/26/14 06:30

Percent Solids: 67.5

**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	<47		47	12	ug/Kg	☼	08/07/14 07:44	08/08/14 08:05	1
Isophorone	<240		240	53	ug/Kg	☼	08/07/14 07:44	08/08/14 08:05	1
Naphthalene	<47		47	7.3	ug/Kg	☼	08/07/14 07:44	08/08/14 08:05	1
Nitrobenzene	<47		47	12	ug/Kg	☼	08/07/14 07:44	08/08/14 08:05	1
N-Nitrosodi-n-propylamine	<240		240	58	ug/Kg	☼	08/07/14 07:44	08/08/14 08:05	1
N-Nitrosodiphenylamine	<240		240	56	ug/Kg	☼	08/07/14 07:44	08/08/14 08:05	1
Pentachlorophenol	<960		960	760	ug/Kg	☼	08/07/14 07:44	08/08/14 08:05	1
Phenanthrene	<47		47	6.6	ug/Kg	☼	08/07/14 07:44	08/08/14 08:05	1
Phenol	<240		240	110	ug/Kg	☼	08/07/14 07:44	08/08/14 08:05	1
<b>Pyrene</b>	<b>37</b>	<b>J</b>	47	9.5	ug/Kg	☼	08/07/14 07:44	08/08/14 08:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	75		35 - 137				08/07/14 07:44	08/08/14 08:05	1
2-Fluorobiphenyl	62		25 - 119				08/07/14 07:44	08/08/14 08:05	1
2-Fluorophenol	61		25 - 110				08/07/14 07:44	08/08/14 08:05	1
Nitrobenzene-d5	53		25 - 115				08/07/14 07:44	08/08/14 08:05	1
Phenol-d5	62		31 - 110				08/07/14 07:44	08/08/14 08:05	1
Terphenyl-d14	207	X	36 - 134				08/07/14 07:44	08/08/14 08:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		08/05/14 08:30	08/06/14 02:26	1
<b>Barium</b>	<b>0.39</b>	<b>J</b>	0.50	0.050	mg/L		08/05/14 08:30	08/06/14 02:26	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/05/14 08:30	08/06/14 02:26	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/05/14 08:30	08/06/14 02:26	1
Chromium	<0.025		0.025	0.010	mg/L		08/05/14 08:30	08/06/14 02:26	1
<b>Cobalt</b>	<b>0.010</b>	<b>J</b>	0.025	0.010	mg/L		08/05/14 08:30	08/06/14 02:26	1
<b>Copper</b>	<b>0.013</b>	<b>J</b>	0.025	0.010	mg/L		08/05/14 08:30	08/06/14 02:26	1
Iron	<0.20		0.20	0.20	mg/L		08/05/14 08:30	08/06/14 02:26	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/05/14 08:30	08/06/14 02:26	1
<b>Manganese</b>	<b>3.4</b>		0.025	0.010	mg/L		08/05/14 08:30	08/06/14 02:26	1
Nickel	<0.025		0.025	0.010	mg/L		08/05/14 08:30	08/06/14 02:26	1
Selenium	<0.050		0.050	0.010	mg/L		08/05/14 08:30	08/06/14 02:26	1
Silver	<0.025		0.025	0.010	mg/L		08/05/14 08:30	08/06/14 02:26	1
<b>Zinc</b>	<b>0.042</b>	<b>J</b>	0.10	0.020	mg/L		08/05/14 08:30	08/06/14 02:26	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		08/05/14 10:30	08/06/14 05:30	1
<b>Barium</b>	<b>0.069</b>	<b>J</b>	0.50	0.050	mg/L		08/05/14 10:30	08/06/14 05:30	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/05/14 10:30	08/06/14 05:30	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/05/14 10:30	08/06/14 05:30	1
<b>Chromium</b>	<b>0.015</b>	<b>J</b>	0.025	0.010	mg/L		08/05/14 10:30	08/06/14 05:30	1
Cobalt	<0.025		0.025	0.010	mg/L		08/05/14 10:30	08/06/14 05:30	1
<b>Copper</b>	<b>0.016</b>	<b>J</b>	0.025	0.010	mg/L		08/05/14 10:30	08/06/14 05:30	1
<b>Iron</b>	<b>11</b>		0.20	0.20	mg/L		08/05/14 10:30	08/06/14 05:30	1
<b>Lead</b>	<b>0.028</b>		0.0075	0.0075	mg/L		08/05/14 10:30	08/06/14 05:30	1
<b>Manganese</b>	<b>0.090</b>		0.025	0.010	mg/L		08/05/14 10:30	08/06/14 05:30	1
<b>Nickel</b>	<b>0.013</b>	<b>J</b>	0.025	0.010	mg/L		08/05/14 10:30	08/06/14 05:30	1
Selenium	<0.050		0.050	0.010	mg/L		08/05/14 10:30	08/06/14 05:30	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81266-1

**Client Sample ID: PA-2(0-6)-072514**

**Lab Sample ID: 500-81266-10**

Date Collected: 07/25/14 11:10

Matrix: Solid

Date Received: 07/26/14 06:30

**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		08/05/14 10:30	08/06/14 05:30	1
Zinc	0.048	J B	0.10	0.020	mg/L		08/05/14 10:30	08/06/14 05:30	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.4		1.4	0.55	mg/Kg	☼	08/01/14 17:50	08/04/14 22:43	1
Arsenic	7.4		0.69	0.14	mg/Kg	☼	08/01/14 17:50	08/04/14 22:43	1
Barium	52		0.69	0.074	mg/Kg	☼	08/01/14 17:50	08/04/14 22:43	1
Beryllium	0.56		0.28	0.055	mg/Kg	☼	08/01/14 17:50	08/04/14 22:43	1
Cadmium	1.1		0.14	0.017	mg/Kg	☼	08/01/14 17:50	08/04/14 22:43	1
Calcium	60000		14	3.7	mg/Kg	☼	08/01/14 17:50	08/04/14 22:43	1
Chromium	16	B	0.69	0.080	mg/Kg	☼	08/01/14 17:50	08/04/14 22:43	1
Cobalt	10		0.34	0.069	mg/Kg	☼	08/01/14 17:50	08/04/14 22:43	1
Copper	25		0.69	0.14	mg/Kg	☼	08/01/14 17:50	08/04/14 22:43	1
Iron	19000		14	5.7	mg/Kg	☼	08/01/14 17:50	08/04/14 22:43	1
Lead	26	B	0.34	0.10	mg/Kg	☼	08/01/14 17:50	08/04/14 22:43	1
Magnesium	28000		6.9	1.4	mg/Kg	☼	08/01/14 17:50	08/04/14 22:43	1
Manganese	580		0.69	0.14	mg/Kg	☼	08/01/14 17:50	08/04/14 22:43	1
Nickel	22		0.69	0.14	mg/Kg	☼	08/01/14 17:50	08/04/14 22:43	1
Potassium	1700		34	2.1	mg/Kg	☼	08/01/14 17:50	08/04/14 22:43	1
Selenium	<0.69		0.69	0.24	mg/Kg	☼	08/01/14 17:50	08/04/14 22:43	1
Silver	0.037	J	0.34	0.025	mg/Kg	☼	08/01/14 17:50	08/04/14 22:43	1
Sodium	1200		69	9.2	mg/Kg	☼	08/01/14 17:50	08/04/14 22:43	1
Thallium	0.85		0.69	0.29	mg/Kg	☼	08/01/14 17:50	08/04/14 22:43	1
Vanadium	21	B	0.34	0.051	mg/Kg	☼	08/01/14 17:50	08/04/14 22:43	1
Zinc	50		1.4	0.28	mg/Kg	☼	08/01/14 17:50	08/04/14 22:43	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		08/05/14 12:00	08/06/14 10:25	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		08/05/14 12:00	08/06/14 11:19	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	23	9.1	ug/Kg	☼	08/01/14 12:00	08/04/14 13:01	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.97		0.200	0.200	SU			08/01/14 14:45	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81266-1

**Client Sample ID: PA-2(0-6)-072514D**

**Lab Sample ID: 500-81266-11**

**Date Collected: 07/25/14 11:10**

**Matrix: Solid**

**Date Received: 07/26/14 06:30**

**Percent Solids: 66.3**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>120</b>		7.5	3.3	ug/Kg	☼		07/30/14 04:24	1
Benzene	<7.5		7.5	1.0	ug/Kg	☼		07/30/14 04:24	1
Bromodichloromethane	<7.5		7.5	1.3	ug/Kg	☼		07/30/14 04:24	1
Bromoform	<7.5		7.5	1.7	ug/Kg	☼		07/30/14 04:24	1
Bromomethane	<7.5		7.5	2.3	ug/Kg	☼		07/30/14 04:24	1
Carbon disulfide	<7.5		7.5	1.1	ug/Kg	☼		07/30/14 04:24	1
Carbon tetrachloride	<7.5		7.5	1.4	ug/Kg	☼		07/30/14 04:24	1
Chlorobenzene	<7.5		7.5	0.76	ug/Kg	☼		07/30/14 04:24	1
Chloroethane	<7.5		7.5	2.1	ug/Kg	☼		07/30/14 04:24	1
Chloroform	<7.5		7.5	0.87	ug/Kg	☼		07/30/14 04:24	1
Chloromethane	<7.5		7.5	1.6	ug/Kg	☼		07/30/14 04:24	1
cis-1,2-Dichloroethene	<7.5		7.5	1.1	ug/Kg	☼		07/30/14 04:24	1
cis-1,3-Dichloropropene	<7.5		7.5	0.99	ug/Kg	☼		07/30/14 04:24	1
Dibromochloromethane	<7.5		7.5	1.3	ug/Kg	☼		07/30/14 04:24	1
1,1-Dichloroethane	<7.5		7.5	1.2	ug/Kg	☼		07/30/14 04:24	1
1,2-Dichloroethane	<7.5		7.5	1.1	ug/Kg	☼		07/30/14 04:24	1
1,1-Dichloroethene	<7.5		7.5	1.2	ug/Kg	☼		07/30/14 04:24	1
1,2-Dichloropropane	<7.5		7.5	1.1	ug/Kg	☼		07/30/14 04:24	1
1,3-Dichloropropene, Total	<7.5		7.5	0.99	ug/Kg	☼		07/30/14 04:24	1
Ethylbenzene	<7.5		7.5	1.5	ug/Kg	☼		07/30/14 04:24	1
2-Hexanone	<7.5		7.5	2.2	ug/Kg	☼		07/30/14 04:24	1
Methylene Chloride	<7.5		7.5	2.0	ug/Kg	☼		07/30/14 04:24	1
<b>Methyl Ethyl Ketone</b>	<b>15</b>		7.5	2.7	ug/Kg	☼		07/30/14 04:24	1
methyl isobutyl ketone	<7.5		7.5	2.0	ug/Kg	☼		07/30/14 04:24	1
Methyl tert-butyl ether	<7.5		7.5	1.2	ug/Kg	☼		07/30/14 04:24	1
Styrene	<7.5		7.5	0.99	ug/Kg	☼		07/30/14 04:24	1
1,1,2,2-Tetrachloroethane	<7.5		7.5	1.5	ug/Kg	☼		07/30/14 04:24	1
Tetrachloroethene	<7.5		7.5	1.2	ug/Kg	☼		07/30/14 04:24	1
Toluene	<7.5		7.5	1.1	ug/Kg	☼		07/30/14 04:24	1
trans-1,2-Dichloroethene	<7.5		7.5	1.0	ug/Kg	☼		07/30/14 04:24	1
trans-1,3-Dichloropropene	<7.5		7.5	1.4	ug/Kg	☼		07/30/14 04:24	1
1,1,1-Trichloroethane	<7.5		7.5	1.1	ug/Kg	☼		07/30/14 04:24	1
1,1,2-Trichloroethane	<7.5		7.5	1.0	ug/Kg	☼		07/30/14 04:24	1
Trichloroethene	<7.5		7.5	1.2	ug/Kg	☼		07/30/14 04:24	1
Vinyl chloride	<7.5		7.5	1.6	ug/Kg	☼		07/30/14 04:24	1
Xylenes, Total	<15		15	0.68	ug/Kg	☼		07/30/14 04:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 122		07/30/14 04:24	1
Dibromofluoromethane	112		75 - 120		07/30/14 04:24	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134		07/30/14 04:24	1
Toluene-d8 (Surr)	98		75 - 122		07/30/14 04:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<250		250	53	ug/Kg	☼	08/07/14 07:44	08/11/14 10:50	1
1,2-Dichlorobenzene	<250		250	58	ug/Kg	☼	08/07/14 07:44	08/11/14 10:50	1
1,3-Dichlorobenzene	<250		250	55	ug/Kg	☼	08/07/14 07:44	08/11/14 10:50	1
1,4-Dichlorobenzene	<250		250	63	ug/Kg	☼	08/07/14 07:44	08/11/14 10:50	1
2,2'-oxybis[1-chloropropane]	<250		250	57	ug/Kg	☼	08/07/14 07:44	08/11/14 10:50	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81266-1

**Client Sample ID: PA-2(0-6)-072514D**

**Lab Sample ID: 500-81266-11**

**Date Collected: 07/25/14 11:10**

**Matrix: Solid**

**Date Received: 07/26/14 06:30**

**Percent Solids: 66.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<480		480	110	ug/Kg	☼	08/07/14 07:44	08/11/14 10:50	1
2,4,6-Trichlorophenol	<480		480	170	ug/Kg	☼	08/07/14 07:44	08/11/14 10:50	1
2,4-Dichlorophenol	<480		480	120	ug/Kg	☼	08/07/14 07:44	08/11/14 10:50	1
2,4-Dimethylphenol	<480		480	190	ug/Kg	☼	08/07/14 07:44	08/11/14 10:50	1
2,4-Dinitrophenol	<980		980	860	ug/Kg	☼	08/07/14 07:44	08/11/14 10:50	1
2,4-Dinitrotoluene	<250		250	78	ug/Kg	☼	08/07/14 07:44	08/11/14 10:50	1
2,6-Dinitrotoluene	<250		250	96	ug/Kg	☼	08/07/14 07:44	08/11/14 10:50	1
2-Chloronaphthalene	<250		250	54	ug/Kg	☼	08/07/14 07:44	08/11/14 10:50	1
2-Chlorophenol	<250		250	83	ug/Kg	☼	08/07/14 07:44	08/11/14 10:50	1
2-Methylnaphthalene	<48		48	9.0	ug/Kg	☼	08/07/14 07:44	08/11/14 10:50	1
2-Methylphenol	<250		250	78	ug/Kg	☼	08/07/14 07:44	08/11/14 10:50	1
2-Nitroaniline	<250		250	66	ug/Kg	☼	08/07/14 07:44	08/11/14 10:50	1
2-Nitrophenol	<480		480	120	ug/Kg	☼	08/07/14 07:44	08/11/14 10:50	1
3 & 4 Methylphenol	<250		250	81	ug/Kg	☼	08/07/14 07:44	08/11/14 10:50	1
3,3'-Dichlorobenzidine	<250		250	68	ug/Kg	☼	08/07/14 07:44	08/11/14 10:50	1
3-Nitroaniline	<480		480	150	ug/Kg	☼	08/07/14 07:44	08/11/14 10:50	1
4,6-Dinitro-2-methylphenol	<480		480	390	ug/Kg	☼	08/07/14 07:44	08/11/14 10:50	1
4-Bromophenyl phenyl ether	<250		250	64	ug/Kg	☼	08/07/14 07:44	08/11/14 10:50	1
4-Chloro-3-methylphenol	<480		480	170	ug/Kg	☼	08/07/14 07:44	08/11/14 10:50	1
4-Chloroaniline	<980		980	230	ug/Kg	☼	08/07/14 07:44	08/11/14 10:50	1
4-Chlorophenyl phenyl ether	<250		250	57	ug/Kg	☼	08/07/14 07:44	08/11/14 10:50	1
4-Nitroaniline	<480		480	200	ug/Kg	☼	08/07/14 07:44	08/11/14 10:50	1
4-Nitrophenol	<980		980	460	ug/Kg	☼	08/07/14 07:44	08/11/14 10:50	1
Acenaphthene	<48		48	8.8	ug/Kg	☼	08/07/14 07:44	08/11/14 10:50	1
Acenaphthylene	<48		48	6.4	ug/Kg	☼	08/07/14 07:44	08/11/14 10:50	1
Anthracene	<48		48	8.2	ug/Kg	☼	08/07/14 07:44	08/11/14 10:50	1
Benzo[a]anthracene	<48		48	6.6	ug/Kg	☼	08/07/14 07:44	08/11/14 10:50	1
<b>Benzo[a]pyrene</b>	<b>12 J</b>		48	9.4	ug/Kg	☼	08/07/14 07:44	08/11/14 10:50	1
<b>Benzo[b]fluoranthene</b>	<b>15 J</b>		48	11	ug/Kg	☼	08/07/14 07:44	08/11/14 10:50	1
<b>Benzo[g,h,i]perylene</b>	<b>17 J</b>		48	16	ug/Kg	☼	08/07/14 07:44	08/11/14 10:50	1
Benzo[k]fluoranthene	<48		48	14	ug/Kg	☼	08/07/14 07:44	08/11/14 10:50	1
Bis(2-chloroethoxy)methane	<250		250	50	ug/Kg	☼	08/07/14 07:44	08/11/14 10:50	1
Bis(2-chloroethyl)ether	<250		250	73	ug/Kg	☼	08/07/14 07:44	08/11/14 10:50	1
Bis(2-ethylhexyl) phthalate	<250		250	89	ug/Kg	☼	08/07/14 07:44	08/11/14 10:50	1
Butyl benzyl phthalate	<250		250	93	ug/Kg	☼	08/07/14 07:44	08/11/14 10:50	1
Carbazole	<250		250	130	ug/Kg	☼	08/07/14 07:44	08/11/14 10:50	1
Chrysene	<48		48	13	ug/Kg	☼	08/07/14 07:44	08/11/14 10:50	1
Dibenz(a,h)anthracene	<48		48	9.4	ug/Kg	☼	08/07/14 07:44	08/11/14 10:50	1
Dibenzofuran	<250		250	57	ug/Kg	☼	08/07/14 07:44	08/11/14 10:50	1
Diethyl phthalate	<250		250	83	ug/Kg	☼	08/07/14 07:44	08/11/14 10:50	1
Dimethyl phthalate	<250		250	64	ug/Kg	☼	08/07/14 07:44	08/11/14 10:50	1
Di-n-butyl phthalate	<250		250	74	ug/Kg	☼	08/07/14 07:44	08/11/14 10:50	1
Di-n-octyl phthalate	<250		250	80	ug/Kg	☼	08/07/14 07:44	08/11/14 10:50	1
<b>Fluoranthene</b>	<b>10 J</b>		48	9.1	ug/Kg	☼	08/07/14 07:44	08/11/14 10:50	1
Fluorene	<48		48	6.9	ug/Kg	☼	08/07/14 07:44	08/11/14 10:50	1
Hexachlorobenzene	<98		98	11	ug/Kg	☼	08/07/14 07:44	08/11/14 10:50	1
Hexachlorobutadiene	<250		250	77	ug/Kg	☼	08/07/14 07:44	08/11/14 10:50	1
Hexachlorocyclopentadiene	<980		980	280	ug/Kg	☼	08/07/14 07:44	08/11/14 10:50	1
Hexachloroethane	<250		250	74	ug/Kg	☼	08/07/14 07:44	08/11/14 10:50	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81266-1

**Client Sample ID: PA-2(0-6)-072514D**

**Lab Sample ID: 500-81266-11**

**Date Collected: 07/25/14 11:10**

**Matrix: Solid**

**Date Received: 07/26/14 06:30**

**Percent Solids: 66.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Indeno[1,2,3-cd]pyrene</b>	<b>13</b>	<b>J</b>	48	13	ug/Kg	☼	08/07/14 07:44	08/11/14 10:50	1
Isophorone	<250		250	55	ug/Kg	☼	08/07/14 07:44	08/11/14 10:50	1
Naphthalene	<48		48	7.5	ug/Kg	☼	08/07/14 07:44	08/11/14 10:50	1
Nitrobenzene	<48		48	12	ug/Kg	☼	08/07/14 07:44	08/11/14 10:50	1
N-Nitrosodi-n-propylamine	<250		250	60	ug/Kg	☼	08/07/14 07:44	08/11/14 10:50	1
N-Nitrosodiphenylamine	<250		250	58	ug/Kg	☼	08/07/14 07:44	08/11/14 10:50	1
Pentachlorophenol	<980		980	780	ug/Kg	☼	08/07/14 07:44	08/11/14 10:50	1
Phenanthrene	<48		48	6.8	ug/Kg	☼	08/07/14 07:44	08/11/14 10:50	1
Phenol	<250		250	110	ug/Kg	☼	08/07/14 07:44	08/11/14 10:50	1
<b>Pyrene</b>	<b>17</b>	<b>J</b>	48	9.7	ug/Kg	☼	08/07/14 07:44	08/11/14 10:50	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>2,4,6-Tribromophenol</i>	88		35 - 137				08/07/14 07:44	08/11/14 10:50	1
<i>2-Fluorobiphenyl</i>	68		25 - 119				08/07/14 07:44	08/11/14 10:50	1
<i>2-Fluorophenol</i>	64		25 - 110				08/07/14 07:44	08/11/14 10:50	1
<i>Nitrobenzene-d5</i>	55		25 - 115				08/07/14 07:44	08/11/14 10:50	1
<i>Phenol-d5</i>	66		31 - 110				08/07/14 07:44	08/11/14 10:50	1
<i>Terphenyl-d14</i>	134		36 - 134				08/07/14 07:44	08/11/14 10:50	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		08/05/14 08:30	08/06/14 02:33	1
<b>Barium</b>	<b>0.35</b>	<b>J</b>	0.50	0.050	mg/L		08/05/14 08:30	08/06/14 02:33	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/05/14 08:30	08/06/14 02:33	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/05/14 08:30	08/06/14 02:33	1
Chromium	<0.025		0.025	0.010	mg/L		08/05/14 08:30	08/06/14 02:33	1
Cobalt	<0.025		0.025	0.010	mg/L		08/05/14 08:30	08/06/14 02:33	1
Copper	<0.025		0.025	0.010	mg/L		08/05/14 08:30	08/06/14 02:33	1
Iron	<0.20		0.20	0.20	mg/L		08/05/14 08:30	08/06/14 02:33	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/05/14 08:30	08/06/14 02:33	1
<b>Manganese</b>	<b>1.8</b>		0.025	0.010	mg/L		08/05/14 08:30	08/06/14 02:33	1
Nickel	<0.025		0.025	0.010	mg/L		08/05/14 08:30	08/06/14 02:33	1
Selenium	<0.050		0.050	0.010	mg/L		08/05/14 08:30	08/06/14 02:33	1
Silver	<0.025		0.025	0.010	mg/L		08/05/14 08:30	08/06/14 02:33	1
<b>Zinc</b>	<b>0.022</b>	<b>J</b>	0.10	0.020	mg/L		08/05/14 08:30	08/06/14 02:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		08/05/14 10:30	08/06/14 05:37	1
<b>Barium</b>	<b>0.065</b>	<b>J</b>	0.50	0.050	mg/L		08/05/14 10:30	08/06/14 05:37	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/05/14 10:30	08/06/14 05:37	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/05/14 10:30	08/06/14 05:37	1
<b>Chromium</b>	<b>0.017</b>	<b>J</b>	0.025	0.010	mg/L		08/05/14 10:30	08/06/14 05:37	1
Cobalt	<0.025		0.025	0.010	mg/L		08/05/14 10:30	08/06/14 05:37	1
<b>Copper</b>	<b>0.019</b>	<b>J</b>	0.025	0.010	mg/L		08/05/14 10:30	08/06/14 05:37	1
<b>Iron</b>	<b>13</b>		0.20	0.20	mg/L		08/05/14 10:30	08/06/14 05:37	1
<b>Lead</b>	<b>0.048</b>		0.0075	0.0075	mg/L		08/05/14 10:30	08/06/14 05:37	1
<b>Manganese</b>	<b>0.12</b>		0.025	0.010	mg/L		08/05/14 10:30	08/06/14 05:37	1
<b>Nickel</b>	<b>0.017</b>	<b>J</b>	0.025	0.010	mg/L		08/05/14 10:30	08/06/14 05:37	1
Selenium	<0.050		0.050	0.010	mg/L		08/05/14 10:30	08/06/14 05:37	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81266-1

**Client Sample ID: PA-2(0-6)-072514D**

**Lab Sample ID: 500-81266-11**

Date Collected: 07/25/14 11:10

Matrix: Solid

Date Received: 07/26/14 06:30

**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		08/05/14 10:30	08/06/14 05:37	1
Zinc	0.055	J B	0.10	0.020	mg/L		08/05/14 10:30	08/06/14 05:37	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.4		1.4	0.57	mg/Kg	☼	08/01/14 17:50	08/04/14 22:50	1
Arsenic	5.7		0.70	0.14	mg/Kg	☼	08/01/14 17:50	08/04/14 22:50	1
Barium	45		0.70	0.075	mg/Kg	☼	08/01/14 17:50	08/04/14 22:50	1
Beryllium	0.46		0.28	0.056	mg/Kg	☼	08/01/14 17:50	08/04/14 22:50	1
Cadmium	1.0		0.14	0.018	mg/Kg	☼	08/01/14 17:50	08/04/14 22:50	1
Calcium	110000		140	38	mg/Kg	☼	08/01/14 17:50	08/05/14 21:02	10
Chromium	14	B	0.70	0.082	mg/Kg	☼	08/01/14 17:50	08/04/14 22:50	1
Cobalt	9.2		0.35	0.070	mg/Kg	☼	08/01/14 17:50	08/04/14 22:50	1
Copper	20		0.70	0.14	mg/Kg	☼	08/01/14 17:50	08/04/14 22:50	1
Iron	16000		14	5.8	mg/Kg	☼	08/01/14 17:50	08/04/14 22:50	1
Lead	31	B	0.35	0.10	mg/Kg	☼	08/01/14 17:50	08/04/14 22:50	1
Magnesium	42000		7.0	1.5	mg/Kg	☼	08/01/14 17:50	08/04/14 22:50	1
Manganese	570		0.70	0.14	mg/Kg	☼	08/01/14 17:50	08/04/14 22:50	1
Nickel	19		0.70	0.14	mg/Kg	☼	08/01/14 17:50	08/04/14 22:50	1
Potassium	1600		35	2.1	mg/Kg	☼	08/01/14 17:50	08/04/14 22:50	1
Selenium	<0.70		0.70	0.25	mg/Kg	☼	08/01/14 17:50	08/04/14 22:50	1
Silver	0.064	J	0.35	0.026	mg/Kg	☼	08/01/14 17:50	08/04/14 22:50	1
Sodium	1200		70	9.4	mg/Kg	☼	08/01/14 17:50	08/04/14 22:50	1
Thallium	0.53	J	0.70	0.30	mg/Kg	☼	08/01/14 17:50	08/04/14 22:50	1
Vanadium	18	B	0.35	0.052	mg/Kg	☼	08/01/14 17:50	08/04/14 22:50	1
Zinc	43		1.4	0.28	mg/Kg	☼	08/01/14 17:50	08/04/14 22:50	1

**Method: 7470A - Mercury (CVAA) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		08/05/14 12:00	08/06/14 10:27	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		08/05/14 12:00	08/06/14 11:21	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	22	8.8	ug/Kg	☼	08/01/14 12:00	08/04/14 13:03	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.01		0.200	0.200	SU			08/01/14 14:45	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81266-1

**Client Sample ID: PA-1(0-6)-072514**

**Lab Sample ID: 500-81266-12**

Date Collected: 07/25/14 11:30

Matrix: Solid

Date Received: 07/26/14 06:30

Percent Solids: 54.7

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>300</b>		9.1	3.9	ug/Kg	☼		07/30/14 04:47	1
Benzene	<9.1		9.1	1.3	ug/Kg	☼		07/30/14 04:47	1
Bromodichloromethane	<9.1		9.1	1.6	ug/Kg	☼		07/30/14 04:47	1
Bromoform	<9.1		9.1	2.1	ug/Kg	☼		07/30/14 04:47	1
Bromomethane	<9.1		9.1	2.8	ug/Kg	☼		07/30/14 04:47	1
Carbon disulfide	<9.1		9.1	1.4	ug/Kg	☼		07/30/14 04:47	1
Carbon tetrachloride	<9.1		9.1	1.7	ug/Kg	☼		07/30/14 04:47	1
Chlorobenzene	<9.1		9.1	0.93	ug/Kg	☼		07/30/14 04:47	1
Chloroethane	<9.1		9.1	2.5	ug/Kg	☼		07/30/14 04:47	1
Chloroform	<9.1		9.1	1.1	ug/Kg	☼		07/30/14 04:47	1
Chloromethane	<9.1		9.1	1.9	ug/Kg	☼		07/30/14 04:47	1
cis-1,2-Dichloroethene	<9.1		9.1	1.3	ug/Kg	☼		07/30/14 04:47	1
cis-1,3-Dichloropropene	<9.1		9.1	1.2	ug/Kg	☼		07/30/14 04:47	1
Dibromochloromethane	<9.1		9.1	1.6	ug/Kg	☼		07/30/14 04:47	1
1,1-Dichloroethane	<9.1		9.1	1.4	ug/Kg	☼		07/30/14 04:47	1
1,2-Dichloroethane	<9.1		9.1	1.4	ug/Kg	☼		07/30/14 04:47	1
1,1,1-Dichloroethene	<9.1		9.1	1.5	ug/Kg	☼		07/30/14 04:47	1
1,2-Dichloropropane	<9.1		9.1	1.4	ug/Kg	☼		07/30/14 04:47	1
1,3-Dichloropropene, Total	<9.1		9.1	1.2	ug/Kg	☼		07/30/14 04:47	1
Ethylbenzene	<9.1		9.1	1.8	ug/Kg	☼		07/30/14 04:47	1
2-Hexanone	<9.1		9.1	2.6	ug/Kg	☼		07/30/14 04:47	1
Methylene Chloride	<9.1		9.1	2.5	ug/Kg	☼		07/30/14 04:47	1
<b>Methyl Ethyl Ketone</b>	<b>59</b>		9.1	3.3	ug/Kg	☼		07/30/14 04:47	1
methyl isobutyl ketone	<9.1		9.1	2.4	ug/Kg	☼		07/30/14 04:47	1
Methyl tert-butyl ether	<9.1		9.1	1.5	ug/Kg	☼		07/30/14 04:47	1
Styrene	<9.1		9.1	1.2	ug/Kg	☼		07/30/14 04:47	1
1,1,2,2-Tetrachloroethane	<9.1		9.1	1.8	ug/Kg	☼		07/30/14 04:47	1
Tetrachloroethene	<9.1		9.1	1.4	ug/Kg	☼		07/30/14 04:47	1
Toluene	<9.1		9.1	1.3	ug/Kg	☼		07/30/14 04:47	1
trans-1,2-Dichloroethene	<9.1		9.1	1.3	ug/Kg	☼		07/30/14 04:47	1
trans-1,3-Dichloropropene	<9.1		9.1	1.6	ug/Kg	☼		07/30/14 04:47	1
1,1,1-Trichloroethane	<9.1		9.1	1.4	ug/Kg	☼		07/30/14 04:47	1
1,1,2-Trichloroethane	<9.1		9.1	1.2	ug/Kg	☼		07/30/14 04:47	1
Trichloroethene	<9.1		9.1	1.5	ug/Kg	☼		07/30/14 04:47	1
Vinyl chloride	<9.1		9.1	1.9	ug/Kg	☼		07/30/14 04:47	1
Xylenes, Total	<18		18	0.83	ug/Kg	☼		07/30/14 04:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 122		07/30/14 04:47	1
Dibromofluoromethane	110		75 - 120		07/30/14 04:47	1
1,2-Dichloroethane-d4 (Surr)	112		70 - 134		07/30/14 04:47	1
Toluene-d8 (Surr)	100		75 - 122		07/30/14 04:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<290		290	63	ug/Kg	☼	08/07/14 07:44	08/11/14 11:09	1
1,2-Dichlorobenzene	<290		290	70	ug/Kg	☼	08/07/14 07:44	08/11/14 11:09	1
1,3-Dichlorobenzene	<290		290	66	ug/Kg	☼	08/07/14 07:44	08/11/14 11:09	1
1,4-Dichlorobenzene	<290		290	75	ug/Kg	☼	08/07/14 07:44	08/11/14 11:09	1
2,2'-oxybis[1-chloropropane]	<290		290	68	ug/Kg	☼	08/07/14 07:44	08/11/14 11:09	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81266-1

**Client Sample ID: PA-1(0-6)-072514**

**Lab Sample ID: 500-81266-12**

**Date Collected: 07/25/14 11:30**

**Matrix: Solid**

**Date Received: 07/26/14 06:30**

**Percent Solids: 54.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<580		580	130	ug/Kg	☼	08/07/14 07:44	08/11/14 11:09	1
2,4,6-Trichlorophenol	<580		580	200	ug/Kg	☼	08/07/14 07:44	08/11/14 11:09	1
2,4-Dichlorophenol	<580		580	140	ug/Kg	☼	08/07/14 07:44	08/11/14 11:09	1
2,4-Dimethylphenol	<580		580	220	ug/Kg	☼	08/07/14 07:44	08/11/14 11:09	1
2,4-Dinitrophenol	<1200		1200	1000	ug/Kg	☼	08/07/14 07:44	08/11/14 11:09	1
2,4-Dinitrotoluene	<290		290	93	ug/Kg	☼	08/07/14 07:44	08/11/14 11:09	1
2,6-Dinitrotoluene	<290		290	110	ug/Kg	☼	08/07/14 07:44	08/11/14 11:09	1
2-Chloronaphthalene	<290		290	64	ug/Kg	☼	08/07/14 07:44	08/11/14 11:09	1
2-Chlorophenol	<290		290	99	ug/Kg	☼	08/07/14 07:44	08/11/14 11:09	1
2-Methylnaphthalene	<58		58	11	ug/Kg	☼	08/07/14 07:44	08/11/14 11:09	1
2-Methylphenol	<290		290	94	ug/Kg	☼	08/07/14 07:44	08/11/14 11:09	1
2-Nitroaniline	<290		290	78	ug/Kg	☼	08/07/14 07:44	08/11/14 11:09	1
2-Nitrophenol	<580		580	140	ug/Kg	☼	08/07/14 07:44	08/11/14 11:09	1
3 & 4 Methylphenol	<290		290	97	ug/Kg	☼	08/07/14 07:44	08/11/14 11:09	1
3,3'-Dichlorobenzidine	<290		290	82	ug/Kg	☼	08/07/14 07:44	08/11/14 11:09	1
3-Nitroaniline	<580		580	180	ug/Kg	☼	08/07/14 07:44	08/11/14 11:09	1
4,6-Dinitro-2-methylphenol	<580		580	470	ug/Kg	☼	08/07/14 07:44	08/11/14 11:09	1
4-Bromophenyl phenyl ether	<290		290	77	ug/Kg	☼	08/07/14 07:44	08/11/14 11:09	1
4-Chloro-3-methylphenol	<580		580	200	ug/Kg	☼	08/07/14 07:44	08/11/14 11:09	1
4-Chloroaniline	<1200		1200	270	ug/Kg	☼	08/07/14 07:44	08/11/14 11:09	1
4-Chlorophenyl phenyl ether	<290		290	68	ug/Kg	☼	08/07/14 07:44	08/11/14 11:09	1
4-Nitroaniline	<580		580	240	ug/Kg	☼	08/07/14 07:44	08/11/14 11:09	1
4-Nitrophenol	<1200		1200	550	ug/Kg	☼	08/07/14 07:44	08/11/14 11:09	1
Acenaphthene	<58		58	10	ug/Kg	☼	08/07/14 07:44	08/11/14 11:09	1
Acenaphthylene	<58		58	7.7	ug/Kg	☼	08/07/14 07:44	08/11/14 11:09	1
Anthracene	<58		58	9.7	ug/Kg	☼	08/07/14 07:44	08/11/14 11:09	1
<b>Benzo[a]anthracene</b>	<b>16 J</b>		58	7.8	ug/Kg	☼	08/07/14 07:44	08/11/14 11:09	1
<b>Benzo[a]pyrene</b>	<b>18 J</b>		58	11	ug/Kg	☼	08/07/14 07:44	08/11/14 11:09	1
Benzo[b]fluoranthene	<58		58	13	ug/Kg	☼	08/07/14 07:44	08/11/14 11:09	1
<b>Benzo[g,h,i]perylene</b>	<b>24 J</b>		58	19	ug/Kg	☼	08/07/14 07:44	08/11/14 11:09	1
Benzo[k]fluoranthene	<58		58	17	ug/Kg	☼	08/07/14 07:44	08/11/14 11:09	1
Bis(2-chloroethoxy)methane	<290		290	59	ug/Kg	☼	08/07/14 07:44	08/11/14 11:09	1
Bis(2-chloroethyl)ether	<290		290	87	ug/Kg	☼	08/07/14 07:44	08/11/14 11:09	1
Bis(2-ethylhexyl) phthalate	<290		290	110	ug/Kg	☼	08/07/14 07:44	08/11/14 11:09	1
Butyl benzyl phthalate	<290		290	110	ug/Kg	☼	08/07/14 07:44	08/11/14 11:09	1
Carbazole	<290		290	150	ug/Kg	☼	08/07/14 07:44	08/11/14 11:09	1
<b>Chrysene</b>	<b>17 J</b>		58	16	ug/Kg	☼	08/07/14 07:44	08/11/14 11:09	1
Dibenz(a,h)anthracene	<58		58	11	ug/Kg	☼	08/07/14 07:44	08/11/14 11:09	1
Dibenzofuran	<290		290	68	ug/Kg	☼	08/07/14 07:44	08/11/14 11:09	1
Diethyl phthalate	<290		290	99	ug/Kg	☼	08/07/14 07:44	08/11/14 11:09	1
Dimethyl phthalate	<290		290	76	ug/Kg	☼	08/07/14 07:44	08/11/14 11:09	1
Di-n-butyl phthalate	<290		290	89	ug/Kg	☼	08/07/14 07:44	08/11/14 11:09	1
Di-n-octyl phthalate	<290		290	95	ug/Kg	☼	08/07/14 07:44	08/11/14 11:09	1
<b>Fluoranthene</b>	<b>24 J</b>		58	11	ug/Kg	☼	08/07/14 07:44	08/11/14 11:09	1
Fluorene	<58		58	8.2	ug/Kg	☼	08/07/14 07:44	08/11/14 11:09	1
Hexachlorobenzene	<120		120	14	ug/Kg	☼	08/07/14 07:44	08/11/14 11:09	1
Hexachlorobutadiene	<290		290	92	ug/Kg	☼	08/07/14 07:44	08/11/14 11:09	1
Hexachlorocyclopentadiene	<1200		1200	340	ug/Kg	☼	08/07/14 07:44	08/11/14 11:09	1
Hexachloroethane	<290		290	89	ug/Kg	☼	08/07/14 07:44	08/11/14 11:09	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81266-1

**Client Sample ID: PA-1(0-6)-072514**

**Lab Sample ID: 500-81266-12**

**Date Collected: 07/25/14 11:30**

**Matrix: Solid**

**Date Received: 07/26/14 06:30**

**Percent Solids: 54.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Indeno[1,2,3-cd]pyrene</b>	<b>18</b>	<b>J</b>	58	15	ug/Kg	☼	08/07/14 07:44	08/11/14 11:09	1
Isophorone	<290		290	65	ug/Kg	☼	08/07/14 07:44	08/11/14 11:09	1
Naphthalene	<58		58	9.0	ug/Kg	☼	08/07/14 07:44	08/11/14 11:09	1
Nitrobenzene	<58		58	15	ug/Kg	☼	08/07/14 07:44	08/11/14 11:09	1
N-Nitrosodi-n-propylamine	<290		290	71	ug/Kg	☼	08/07/14 07:44	08/11/14 11:09	1
N-Nitrosodiphenylamine	<290		290	69	ug/Kg	☼	08/07/14 07:44	08/11/14 11:09	1
Pentachlorophenol	<1200		1200	940	ug/Kg	☼	08/07/14 07:44	08/11/14 11:09	1
<b>Phenanthrene</b>	<b>15</b>	<b>J</b>	58	8.1	ug/Kg	☼	08/07/14 07:44	08/11/14 11:09	1
Phenol	<290		290	130	ug/Kg	☼	08/07/14 07:44	08/11/14 11:09	1
<b>Pyrene</b>	<b>44</b>	<b>J</b>	58	12	ug/Kg	☼	08/07/14 07:44	08/11/14 11:09	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2,4,6-Tribromophenol	79		35 - 137				08/07/14 07:44	08/11/14 11:09	1
2-Fluorobiphenyl	61		25 - 119				08/07/14 07:44	08/11/14 11:09	1
2-Fluorophenol	53		25 - 110				08/07/14 07:44	08/11/14 11:09	1
Nitrobenzene-d5	53		25 - 115				08/07/14 07:44	08/11/14 11:09	1
Phenol-d5	47		31 - 110				08/07/14 07:44	08/11/14 11:09	1
Terphenyl-d14	117		36 - 134				08/07/14 07:44	08/11/14 11:09	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		08/05/14 08:30	08/06/14 02:39	1
<b>Barium</b>	<b>0.13</b>	<b>J</b>	0.50	0.050	mg/L		08/05/14 08:30	08/06/14 02:39	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/05/14 08:30	08/06/14 02:39	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/05/14 08:30	08/06/14 02:39	1
Chromium	<0.025		0.025	0.010	mg/L		08/05/14 08:30	08/06/14 02:39	1
Cobalt	<0.025		0.025	0.010	mg/L		08/05/14 08:30	08/06/14 02:39	1
Copper	<0.025		0.025	0.010	mg/L		08/05/14 08:30	08/06/14 02:39	1
<b>Iron</b>	<b>0.50</b>		0.20	0.20	mg/L		08/05/14 08:30	08/06/14 02:39	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/05/14 08:30	08/06/14 02:39	1
<b>Manganese</b>	<b>0.68</b>		0.025	0.010	mg/L		08/05/14 08:30	08/06/14 02:39	1
Nickel	<0.025		0.025	0.010	mg/L		08/05/14 08:30	08/06/14 02:39	1
Selenium	<0.050		0.050	0.010	mg/L		08/05/14 08:30	08/06/14 02:39	1
Silver	<0.025		0.025	0.010	mg/L		08/05/14 08:30	08/06/14 02:39	1
<b>Zinc</b>	<b>0.031</b>	<b>J</b>	0.10	0.020	mg/L		08/05/14 08:30	08/06/14 02:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		08/05/14 10:30	08/06/14 05:59	1
Barium	<0.50		0.50	0.050	mg/L		08/05/14 10:30	08/06/14 05:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/05/14 10:30	08/06/14 05:59	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/05/14 10:30	08/06/14 05:59	1
<b>Chromium</b>	<b>0.014</b>	<b>J</b>	0.025	0.010	mg/L		08/05/14 10:30	08/06/14 05:59	1
Cobalt	<0.025		0.025	0.010	mg/L		08/05/14 10:30	08/06/14 05:59	1
<b>Copper</b>	<b>0.015</b>	<b>J</b>	0.025	0.010	mg/L		08/05/14 10:30	08/06/14 05:59	1
<b>Iron</b>	<b>8.7</b>		0.20	0.20	mg/L		08/05/14 10:30	08/06/14 05:59	1
<b>Lead</b>	<b>0.057</b>		0.0075	0.0075	mg/L		08/05/14 10:30	08/06/14 05:59	1
<b>Manganese</b>	<b>0.11</b>		0.025	0.010	mg/L		08/05/14 10:30	08/06/14 05:59	1
Nickel	<0.025		0.025	0.010	mg/L		08/05/14 10:30	08/06/14 05:59	1
Selenium	<0.050		0.050	0.010	mg/L		08/05/14 10:30	08/06/14 05:59	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81266-1

**Client Sample ID: PA-1(0-6)-072514**

**Lab Sample ID: 500-81266-12**

Date Collected: 07/25/14 11:30

Matrix: Solid

Date Received: 07/26/14 06:30

**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		08/05/14 10:30	08/06/14 05:59	1
Zinc	0.054	J B	0.10	0.020	mg/L		08/05/14 10:30	08/06/14 05:59	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.7		1.7	0.70	mg/Kg	☼	08/01/14 17:50	08/04/14 22:56	1
Arsenic	2.6		0.87	0.17	mg/Kg	☼	08/01/14 17:50	08/04/14 22:56	1
Barium	17		0.87	0.093	mg/Kg	☼	08/01/14 17:50	08/04/14 22:56	1
Beryllium	0.13	J	0.35	0.069	mg/Kg	☼	08/01/14 17:50	08/04/14 22:56	1
Cadmium	0.31		0.17	0.022	mg/Kg	☼	08/01/14 17:50	08/04/14 22:56	1
Calcium	36000		17	4.7	mg/Kg	☼	08/01/14 17:50	08/04/14 22:56	1
Chromium	8.5	B	0.87	0.10	mg/Kg	☼	08/01/14 17:50	08/04/14 22:56	1
Cobalt	1.9		0.43	0.087	mg/Kg	☼	08/01/14 17:50	08/04/14 22:56	1
Copper	8.3		0.87	0.17	mg/Kg	☼	08/01/14 17:50	08/04/14 22:56	1
Iron	5500		17	7.1	mg/Kg	☼	08/01/14 17:50	08/04/14 22:56	1
Lead	46	B	0.43	0.13	mg/Kg	☼	08/01/14 17:50	08/04/14 22:56	1
Magnesium	18000		8.7	1.8	mg/Kg	☼	08/01/14 17:50	08/04/14 22:56	1
Manganese	140		0.87	0.17	mg/Kg	☼	08/01/14 17:50	08/04/14 22:56	1
Nickel	5.2		0.87	0.17	mg/Kg	☼	08/01/14 17:50	08/04/14 22:56	1
Potassium	320		43	2.6	mg/Kg	☼	08/01/14 17:50	08/04/14 22:56	1
Selenium	0.56	J	0.87	0.31	mg/Kg	☼	08/01/14 17:50	08/04/14 22:56	1
Silver	<0.43		0.43	0.031	mg/Kg	☼	08/01/14 17:50	08/04/14 22:56	1
Sodium	8900		4300	580	mg/Kg	☼	08/01/14 17:50	08/05/14 21:08	50
Thallium	<0.87		0.87	0.37	mg/Kg	☼	08/01/14 17:50	08/04/14 22:56	1
Vanadium	6.6	B	0.43	0.064	mg/Kg	☼	08/01/14 17:50	08/04/14 22:56	1
Zinc	20		1.7	0.35	mg/Kg	☼	08/01/14 17:50	08/04/14 22:56	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		08/05/14 12:00	08/06/14 10:29	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		08/05/14 12:00	08/06/14 11:23	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	18	J	28	11	ug/Kg	☼	08/01/14 12:00	08/04/14 13:05	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.38		0.200	0.200	SU			08/01/14 14:45	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81266-1

## 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.
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
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.
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 - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81266-1

## 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 ENVIRONMENT.

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



500-81266 COC

Report To (optional)  
 Contact: S. Babusukumar  
 Company: Weston Solutions Inc.  
 Address: 300 Plaza Circle, Ste. 202  
Mundelein, IL 60060  
 Phone: 224-864-7250  
 Fax: 224-864-7236  
 E-Mail:

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

## Chain of Custody Record

Lab Job #: 500-81266

Chain of Custody Number: \_\_\_\_\_

Page 1 of 3

Temperature °C of Cooler: (4.0) (3.7)

Client		Client Project #		Preservative		Parameter		Matrix		Comments	
Weston Solutions Inc.				8 8		8 8		8 8		Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		# of Containers		Matrix					
IDOT 046-IL132 (Grand Ave)				VOCs		SIUOCs		TOTAL METALS		TCLP/SPLR METALS	
Project Location/State		Lab PM		Date		Time					
Lake County, IL		D. Wright									
Sampler		Sample ID		Date		Time					
M. Donnelly-Skubic											
1		R13-3(0-4)-072514	7-25-14	0825	2	S	X	X	X	X	X
2		R13-3(48)-072514	7-25-14	0830	2	S	X	X	X	X	X
3		R13-2(0-4)-072514	7-25-14	0855	2	S	X	X	X	X	X
4		R13-2(4-8)-072514	7-25-14	0900	2	S	X	X	X	X	X
5		R13-1(0-4)-072514	7-25-14	0925	2	S	X	X	X	X	X
6		R13-1(4-8)-072514	7-25-14	0930	2	S	X	X	X	X	X
7		CLM-1(0-6)-072514	7-25-14	0949	2	S	X	X	X	X	X
8		PA-4(0-6)-072514	7-25-14	1010	2	S	X	X	X	X	X
9		PA-3(0-6)-072514	7-25-14	1030	2	S	X	X	X	X	X
10		PA-2(0-6)-072514	7-25-14	1110	2	S	X	X	X	X	X

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

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

Relinquished By: <u>[Signature]</u> Company: <u>Weston</u> Date: <u>7-25-14</u> Time: <u>1526</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>7/25/14</u> Time: <u>1526</u>
Relinquished By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>7/25/14</u> Time: <u>1650</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>7/26/14</u> Time: <u>0630</u>
Relinquished By: <u>[Signature]</u> Company: _____ Date: _____ Time: <u>1835</u>	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 Solutions Inc.  
Address: 300 Plaza Circle, Ste 202  
Address: Mundelein, IL 60060  
Phone: 224-864-7250  
Fax: 224-864-7234  
E-Mail:

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

## Chain of Custody Record

Lab Job #: 500-81266

Chain of Custody Number: \_\_\_\_\_

Page 2 of \_\_\_\_\_

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	Comments
Weston Solutions Inc				8	8	8	8	8			
Project Name 1 DOT 046 - IL 132 (Grand Ave)		Lab Project #									
Project Location/State Lake County, IL		Lab PM D Wright									
Sampler M. Doherty-Skubic											
Lab ID	M/S/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs	SUOCs	TOTAL METALS	TCUR/SPUR METALS	PH
11		PA-2 (0-6)-072514DP	7-25-14	1110	2	S	X	X	X	X	X
12		PA-1 (0-6)-072514	7-25-14	1130	2	S	X	X	X	X	X
13		R5-1 (0-4)-072514	7-25-14	1155	2	S	X	X	X	X	X
14		R5-1 (4-10)-072514	7-25-14	1200	2	S	X	X	X	X	X
15		FS-1 (0-7)-072514	7-25-14	1220	2	S	X	X	X	X	X
16		VL-8 (0-4)-072514	7-25-14	1240	2	S	X	X	X	X	X
17		VL-7 (0-4)-072514	7-25-14	1257	2	S	X	X	X	X	X
18		VL-6 (0-4)-072514	7-25-14	1310	2	S	X	X	X	X	X
19		VL-5 (0-4)-072514	7-25-14	1325	2	S	X	X	X	X	X
20		VL-4 (0-6)-072514	7-25-14	1350	2	S	X	X	X	X	X

Turnaround Time Required (Business Days)

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

Requested Due Date

Sample Disposal

Return to Client

Disposal by Lab

Archive for \_\_\_\_\_ Months

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

Relinquished By <u>[Signature]</u> Company: <u>Weston</u> Date: <u>7-25-14</u> Time: <u>1526</u>	Received By <u>[Signature]</u> Company: <u>TA</u> Date: <u>7/25/14</u> Time: <u>1526</u>
Relinquished By <u>[Signature]</u> Company: <u>TA</u> Date: <u>7/25/14</u> Time: <u>1650</u>	Received By <u>[Signature]</u> Company: <u>TA</u> Date: <u>7/26/14</u> Time: <u>0630</u>
Relinquished By <u>[Signature]</u> Company: <u>TA</u> Date: <u>7-25-14</u> Time: <u>1835</u>	Received By <u>[Signature]</u> Company: <u>TA</u> 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 541 (Grand Ave) at Fairfield Rd Office Phone Number, if available: \_\_\_\_\_

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

24200 block of W. Grand Ave

City: Lake Villa 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: 42.415412611 Longitude: -88.106411358

(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 541 (Grand Ave) at Fairfield RdLatitude: 42.415412611 Longitude: -88.106411358Uncontaminated 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, AND W-2 WERE SAMPLED ADJACENT TO ISGS SITE No. 2732-7. 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: 500-81068-1

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

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

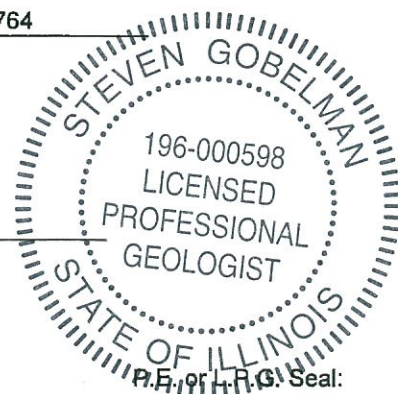
***Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))***

Company Name: Illinois Department of TransportationStreet Address: 2300 South Dirksen ParkwayCity: Springfield State: IL Zip Code: 62764Phone: 217-785-4246Steven Gobelman, P.E., L.P.G.

Printed Name:

  
Licensed Professional Engineer or  
Licensed Professional Geologist Signature:

2/20/15  
Date:



**Summary Table of ISGS Site No. 2732-7**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAP 541 (IL Route 132; Grand Avenue) at Fairfield Road**  
**Unincorporated Lake County, Illinois**

Field Sample ID	W-1(0-6)-072214	W-2(0-6)-072214	Soil Reference Concentrations <sup>A</sup>
Sample Date	7/22/2014	7/22/2014	
Location ID	W-1	W-2	
Depth	0 - 6	0 - 6	
ISGS Site Number	2732-7	2732-7	
<b>Parameter</b>			
Laboratory pH (standard units)	8.16	8.49	<6.25, >9.0
<b>VOCs (ug/kg)</b>	<b>None Detected</b>		
<b>SVOCs (ug/kg)</b>	<b>No Exceedances</b>		
<b>Total Metals (mg/kg)</b>			
Arsenic, Total	7.4 J-	8.2 J-	11.3/13.0
Barium, Total	47 J	30 J	1500
Beryllium, Total	0.65 J	0.55 J	22
Cadmium, Total	0.26 B	0.13 B	5.2
Chromium, Total	24 J	15 J	21
Cobalt, Total	11 J	17 J	20
Copper, Total	24 J	25 J	2900
Iron, Total	18000 J	17000 J	15000/15900
Lead, Total	120 J	13 J	107
Magnesium, Total	25000 J	35000 J	325000
Manganese, Total	400 J	470 J	630/636
Mercury, Total	0.023	0.019	0.89
Nickel, Total	31 J	32 J	100
Selenium, Total	0.42 J	0.43 J	1.3
<b>TCLP Metals (mg/l)</b>			
Arsenic, TCLP	ND	ND	0.05
Barium, TCLP	0.42 J	0.25 J	2
Beryllium, TCLP	ND	ND	0.004
Cadmium, TCLP	ND	0.0048 J	0.005
Chromium, TCLP	ND	ND	0.1
Cobalt, TCLP	0.022 J	0.029	1
Copper, TCLP	0.011 J	0.02 J	0.65
Iron, TCLP	ND	1.7	5
Lead, TCLP	ND	ND	0.0075
Manganese, TCLP	7	5.5	0.15
Mercury, TCLP	ND	ND	0.002
Nickel, TCLP	0.013 J	0.037	0.1
Selenium, TCLP	ND	ND	0.05
<b>SPLP Metals (mg/l)</b>			
Arsenic, SPLP	0.051	0.052	0.05
Barium, SPLP	0.65	0.31 J	2
Beryllium, SPLP	0.0067	0.0041	0.004
Cadmium, SPLP	0.0033 J	0.0026 J	0.005
Chromium, SPLP	0.17	0.1	0.1
Cobalt, SPLP	0.06	0.053	1
Copper, SPLP	0.21	0.21	0.65
Iron, SPLP	170	130	5
Lead, SPLP	0.23	0.16	0.0075
Manganese, SPLP	2	1.1	0.15
Mercury, SPLP	ND	ND	0.002
Nickel, SPLP	0.17	0.14	0.1
Selenium, SPLP	ND	ND	0.05

**Notes:**

--- - not applicable or value not available.

<sup>A</sup> - 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: 500-81068-1

Client Project/Site: IDOT - IL Rt. 132 - WO 046

For:

Weston Solutions, Inc.

300 Plaza Circle, Suite 202

Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar



Authorized for release by:

8/6/2014 1:51:19 PM

Richard Wright, Senior Project Manager

(708)534-5200

[richard.wright@testamericainc.com](mailto:richard.wright@testamericainc.com)

### LINKS

Review your project  
results through

TotalAccess

Have a Question?



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[www.testamericainc.com](http://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 - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81068-1

**Client Sample ID: W-1(0-6)-072214**

**Lab Sample ID: 500-81068-8**

**Date Collected: 07/22/14 14:00**

**Matrix: Solid**

**Date Received: 07/23/14 10:00**

**Percent Solids: 85.4**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>66</b>		5.9	2.5	ug/Kg	☼		07/25/14 01:58	1
Benzene	<5.9		5.9	0.80	ug/Kg	☼		07/25/14 01:58	1
Bromodichloromethane	<5.9		5.9	1.0	ug/Kg	☼		07/25/14 01:58	1
Bromoform	<5.9		5.9	1.3	ug/Kg	☼		07/25/14 01:58	1
Bromomethane	<5.9		5.9	1.8	ug/Kg	☼		07/25/14 01:58	1
Carbon disulfide	<5.9		5.9	0.87	ug/Kg	☼		07/25/14 01:58	1
Carbon tetrachloride	<5.9		5.9	1.1	ug/Kg	☼		07/25/14 01:58	1
Chlorobenzene	<5.9		5.9	0.59	ug/Kg	☼		07/25/14 01:58	1
Chloroethane	<5.9		5.9	1.6	ug/Kg	☼		07/25/14 01:58	1
Chloroform	<5.9		5.9	0.67	ug/Kg	☼		07/25/14 01:58	1
Chloromethane	<5.9		5.9	1.2	ug/Kg	☼		07/25/14 01:58	1
cis-1,2-Dichloroethene	<5.9		5.9	0.83	ug/Kg	☼		07/25/14 01:58	1
cis-1,3-Dichloropropene	<5.9		5.9	0.77	ug/Kg	☼		07/25/14 01:58	1
Dibromochloromethane	<5.9		5.9	1.0	ug/Kg	☼		07/25/14 01:58	1
1,1-Dichloroethane	<5.9		5.9	0.93	ug/Kg	☼		07/25/14 01:58	1
1,2-Dichloroethane	<5.9		5.9	0.87	ug/Kg	☼		07/25/14 01:58	1
1,1-Dichloroethene	<5.9		5.9	0.95	ug/Kg	☼		07/25/14 01:58	1
1,2-Dichloropropane	<5.9		5.9	0.89	ug/Kg	☼		07/25/14 01:58	1
1,3-Dichloropropene, Total	<5.9		5.9	0.77	ug/Kg	☼		07/25/14 01:58	1
Ethylbenzene	<5.9		5.9	1.2	ug/Kg	☼		07/25/14 01:58	1
2-Hexanone	<5.9		5.9	1.7	ug/Kg	☼		07/25/14 01:58	1
Methylene Chloride	<5.9		5.9	1.6	ug/Kg	☼		07/25/14 01:58	1
<b>Methyl Ethyl Ketone</b>	<b>17</b>		5.9	2.1	ug/Kg	☼		07/25/14 01:58	1
methyl isobutyl ketone	<5.9		5.9	1.5	ug/Kg	☼		07/25/14 01:58	1
Methyl tert-butyl ether	<5.9		5.9	0.97	ug/Kg	☼		07/25/14 01:58	1
Styrene	<5.9		5.9	0.77	ug/Kg	☼		07/25/14 01:58	1
1,1,2,2-Tetrachloroethane	<5.9		5.9	1.2	ug/Kg	☼		07/25/14 01:58	1
Tetrachloroethene	<5.9		5.9	0.89	ug/Kg	☼		07/25/14 01:58	1
Toluene	<5.9		5.9	0.82	ug/Kg	☼		07/25/14 01:58	1
trans-1,2-Dichloroethene	<5.9		5.9	0.81	ug/Kg	☼		07/25/14 01:58	1
trans-1,3-Dichloropropene	<5.9		5.9	1.0	ug/Kg	☼		07/25/14 01:58	1
1,1,1-Trichloroethane	<5.9		5.9	0.87	ug/Kg	☼		07/25/14 01:58	1
1,1,2-Trichloroethane	<5.9		5.9	0.80	ug/Kg	☼		07/25/14 01:58	1
Trichloroethene	<5.9		5.9	0.97	ug/Kg	☼		07/25/14 01:58	1
Vinyl chloride	<5.9		5.9	1.2	ug/Kg	☼		07/25/14 01:58	1
Xylenes, Total	<12		12	0.53	ug/Kg	☼		07/25/14 01:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 122		07/25/14 01:58	1
Dibromofluoromethane	111		75 - 120		07/25/14 01:58	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134		07/25/14 01:58	1
Toluene-d8 (Surr)	102		75 - 122		07/25/14 01:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	40	ug/Kg	☼	08/05/14 14:18	08/06/14 06:32	1
1,2-Dichlorobenzene	<190		190	44	ug/Kg	☼	08/05/14 14:18	08/06/14 06:32	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	08/05/14 14:18	08/06/14 06:32	1
1,4-Dichlorobenzene	<190		190	47	ug/Kg	☼	08/05/14 14:18	08/06/14 06:32	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	08/05/14 14:18	08/06/14 06:32	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81068-1

**Client Sample ID: W-1(0-6)-072214**

**Lab Sample ID: 500-81068-8**

**Date Collected: 07/22/14 14:00**

**Matrix: Solid**

**Date Received: 07/23/14 10:00**

**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	<370		370	84	ug/Kg	☼	08/05/14 14:18	08/06/14 06:32	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	08/05/14 14:18	08/06/14 06:32	1
2,4-Dichlorophenol	<370		370	88	ug/Kg	☼	08/05/14 14:18	08/06/14 06:32	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	08/05/14 14:18	08/06/14 06:32	1
2,4-Dinitrophenol	<750		750	650	ug/Kg	☼	08/05/14 14:18	08/06/14 06:32	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	08/05/14 14:18	08/06/14 06:32	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	08/05/14 14:18	08/06/14 06:32	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	08/05/14 14:18	08/06/14 06:32	1
2-Chlorophenol	<190		190	63	ug/Kg	☼	08/05/14 14:18	08/06/14 06:32	1
<b>2-Methylnaphthalene</b>	<b>18</b>	<b>J</b>	37	6.8	ug/Kg	☼	08/05/14 14:18	08/06/14 06:32	1
2-Methylphenol	<190		190	59	ug/Kg	☼	08/05/14 14:18	08/06/14 06:32	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	08/05/14 14:18	08/06/14 06:32	1
2-Nitrophenol	<370		370	87	ug/Kg	☼	08/05/14 14:18	08/06/14 06:32	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	08/05/14 14:18	08/06/14 06:32	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	08/05/14 14:18	08/06/14 06:32	1
3-Nitroaniline	<370		370	110	ug/Kg	☼	08/05/14 14:18	08/06/14 06:32	1
4,6-Dinitro-2-methylphenol	<370		370	300	ug/Kg	☼	08/05/14 14:18	08/06/14 06:32	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	08/05/14 14:18	08/06/14 06:32	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	08/05/14 14:18	08/06/14 06:32	1
4-Chloroaniline	<750		750	170	ug/Kg	☼	08/05/14 14:18	08/06/14 06:32	1
4-Chlorophenyl phenyl ether	<190		190	43	ug/Kg	☼	08/05/14 14:18	08/06/14 06:32	1
4-Nitroaniline	<370		370	150	ug/Kg	☼	08/05/14 14:18	08/06/14 06:32	1
4-Nitrophenol	<750		750	350	ug/Kg	☼	08/05/14 14:18	08/06/14 06:32	1
Acenaphthene	<37		37	6.6	ug/Kg	☼	08/05/14 14:18	08/06/14 06:32	1
Acenaphthylene	<37		37	4.9	ug/Kg	☼	08/05/14 14:18	08/06/14 06:32	1
Anthracene	<37		37	6.2	ug/Kg	☼	08/05/14 14:18	08/06/14 06:32	1
<b>Benzo[a]anthracene</b>	<b>21</b>	<b>J</b>	37	5.0	ug/Kg	☼	08/05/14 14:18	08/06/14 06:32	1
<b>Benzo[a]pyrene</b>	<b>19</b>	<b>J</b>	37	7.2	ug/Kg	☼	08/05/14 14:18	08/06/14 06:32	1
<b>Benzo[b]fluoranthene</b>	<b>28</b>	<b>J</b>	37	8.0	ug/Kg	☼	08/05/14 14:18	08/06/14 06:32	1
<b>Benzo[g,h,i]perylene</b>	<b>24</b>	<b>J</b>	37	12	ug/Kg	☼	08/05/14 14:18	08/06/14 06:32	1
<b>Benzo[k]fluoranthene</b>	<b>11</b>	<b>J</b>	37	11	ug/Kg	☼	08/05/14 14:18	08/06/14 06:32	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	08/05/14 14:18	08/06/14 06:32	1
Bis(2-chloroethyl)ether	<190		190	55	ug/Kg	☼	08/05/14 14:18	08/06/14 06:32	1
Bis(2-ethylhexyl) phthalate	<190		190	68	ug/Kg	☼	08/05/14 14:18	08/06/14 06:32	1
Butyl benzyl phthalate	<190		190	70	ug/Kg	☼	08/05/14 14:18	08/06/14 06:32	1
Carbazole	<190		190	95	ug/Kg	☼	08/05/14 14:18	08/06/14 06:32	1
<b>Chrysene</b>	<b>28</b>	<b>J</b>	37	10	ug/Kg	☼	08/05/14 14:18	08/06/14 06:32	1
Dibenz(a,h)anthracene	<37		37	7.1	ug/Kg	☼	08/05/14 14:18	08/06/14 06:32	1
Dibenzofuran	<190		190	43	ug/Kg	☼	08/05/14 14:18	08/06/14 06:32	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	08/05/14 14:18	08/06/14 06:32	1
Dimethyl phthalate	<190		190	48	ug/Kg	☼	08/05/14 14:18	08/06/14 06:32	1
Di-n-butyl phthalate	<190		190	56	ug/Kg	☼	08/05/14 14:18	08/06/14 06:32	1
Di-n-octyl phthalate	<190		190	60	ug/Kg	☼	08/05/14 14:18	08/06/14 06:32	1
<b>Fluoranthene</b>	<b>41</b>		37	6.9	ug/Kg	☼	08/05/14 14:18	08/06/14 06:32	1
Fluorene	<37		37	5.2	ug/Kg	☼	08/05/14 14:18	08/06/14 06:32	1
Hexachlorobenzene	<75		75	8.6	ug/Kg	☼	08/05/14 14:18	08/06/14 06:32	1
Hexachlorobutadiene	<190		190	58	ug/Kg	☼	08/05/14 14:18	08/06/14 06:32	1
Hexachlorocyclopentadiene	<750		750	210	ug/Kg	☼	08/05/14 14:18	08/06/14 06:32	1
Hexachloroethane	<190		190	56	ug/Kg	☼	08/05/14 14:18	08/06/14 06:32	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81068-1

**Client Sample ID: W-1(0-6)-072214**

**Lab Sample ID: 500-81068-8**

Date Collected: 07/22/14 14:00

Matrix: Solid

Date Received: 07/23/14 10:00

Percent Solids: 85.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Indeno[1,2,3-cd]pyrene</b>	<b>13</b>	<b>J</b>	37	9.6	ug/Kg	☼	08/05/14 14:18	08/06/14 06:32	1
Isophorone	<190		190	41	ug/Kg	☼	08/05/14 14:18	08/06/14 06:32	1
Naphthalene	<37		37	5.7	ug/Kg	☼	08/05/14 14:18	08/06/14 06:32	1
Nitrobenzene	<37		37	9.2	ug/Kg	☼	08/05/14 14:18	08/06/14 06:32	1
N-Nitrosodi-n-propylamine	<190		190	45	ug/Kg	☼	08/05/14 14:18	08/06/14 06:32	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	08/05/14 14:18	08/06/14 06:32	1
Pentachlorophenol	<750		750	590	ug/Kg	☼	08/05/14 14:18	08/06/14 06:32	1
<b>Phenanthrene</b>	<b>40</b>		37	5.1	ug/Kg	☼	08/05/14 14:18	08/06/14 06:32	1
Phenol	<190		190	82	ug/Kg	☼	08/05/14 14:18	08/06/14 06:32	1
<b>Pyrene</b>	<b>46</b>		37	7.3	ug/Kg	☼	08/05/14 14:18	08/06/14 06:32	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2,4,6-Tribromophenol	51		35 - 137				08/05/14 14:18	08/06/14 06:32	1
2-Fluorobiphenyl	35		25 - 119				08/05/14 14:18	08/06/14 06:32	1
2-Fluorophenol	35		25 - 110				08/05/14 14:18	08/06/14 06:32	1
Nitrobenzene-d5	28		25 - 115				08/05/14 14:18	08/06/14 06:32	1
Phenol-d5	40		31 - 110				08/05/14 14:18	08/06/14 06:32	1
Terphenyl-d14	60		36 - 134				08/05/14 14:18	08/06/14 06:32	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		08/01/14 09:00	08/01/14 21:36	1
<b>Barium</b>	<b>0.42</b>	<b>J</b>	0.50	0.050	mg/L		08/01/14 09:00	08/01/14 21:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/01/14 09:00	08/01/14 21:36	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/01/14 09:00	08/01/14 21:36	1
Chromium	<0.025		0.025	0.010	mg/L		08/01/14 09:00	08/01/14 21:36	1
<b>Cobalt</b>	<b>0.022</b>	<b>J</b>	0.025	0.010	mg/L		08/01/14 09:00	08/01/14 21:36	1
<b>Copper</b>	<b>0.011</b>	<b>J</b>	0.025	0.010	mg/L		08/01/14 09:00	08/01/14 21:36	1
Iron	<0.20		0.20	0.20	mg/L		08/01/14 09:00	08/01/14 21:36	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/01/14 09:00	08/01/14 21:36	1
<b>Manganese</b>	<b>7.0</b>		0.025	0.010	mg/L		08/01/14 09:00	08/01/14 21:36	1
<b>Nickel</b>	<b>0.013</b>	<b>J</b>	0.025	0.010	mg/L		08/01/14 09:00	08/01/14 21:36	1
<b>Selenium</b>	<b>0.024</b>	<b>J B</b>	0.050	0.010	mg/L		08/01/14 09:00	08/01/14 21:36	1
Silver	<0.025		0.025	0.010	mg/L		08/01/14 09:00	08/01/14 21:36	1
<b>Zinc</b>	<b>0.037</b>	<b>J</b>	0.10	0.020	mg/L		08/01/14 09:00	08/01/14 21:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.051</b>		0.050	0.010	mg/L		07/30/14 09:15	07/31/14 00:42	1
<b>Barium</b>	<b>0.65</b>		0.50	0.050	mg/L		07/30/14 09:15	07/31/14 00:42	1
<b>Beryllium</b>	<b>0.0067</b>		0.0040	0.0040	mg/L		07/30/14 09:15	07/31/14 00:42	1
<b>Cadmium</b>	<b>0.0033</b>	<b>J</b>	0.0050	0.0020	mg/L		07/30/14 09:15	07/31/14 00:42	1
<b>Chromium</b>	<b>0.17</b>		0.025	0.010	mg/L		07/30/14 09:15	07/31/14 00:42	1
<b>Cobalt</b>	<b>0.060</b>		0.025	0.010	mg/L		07/30/14 09:15	07/31/14 00:42	1
<b>Copper</b>	<b>0.21</b>		0.025	0.010	mg/L		07/30/14 09:15	07/31/14 00:42	1
<b>Iron</b>	<b>170</b>		0.20	0.20	mg/L		07/30/14 09:15	07/31/14 00:42	1
<b>Lead</b>	<b>0.23</b>		0.0075	0.0075	mg/L		07/30/14 09:15	07/31/14 00:42	1
<b>Manganese</b>	<b>2.0</b>		0.025	0.010	mg/L		07/30/14 09:15	07/31/14 00:42	1
<b>Nickel</b>	<b>0.17</b>		0.025	0.010	mg/L		07/30/14 09:15	07/31/14 00:42	1
Selenium	<0.050		0.050	0.010	mg/L		07/30/14 09:15	07/31/14 00:42	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81068-1

**Client Sample ID: W-1(0-6)-072214**

**Lab Sample ID: 500-81068-8**

Date Collected: 07/22/14 14:00

Matrix: Solid

Date Received: 07/23/14 10:00

**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		07/30/14 09:15	07/31/14 00:42	1
Zinc	0.41		0.10	0.020	mg/L		07/30/14 09:15	07/31/14 00:42	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.47	J	1.1	0.45	mg/Kg	☼	07/30/14 16:30	07/31/14 22:30	1
Arsenic	7.4		0.56	0.11	mg/Kg	☼	07/30/14 16:30	07/31/14 22:30	1
Barium	47		0.56	0.060	mg/Kg	☼	07/30/14 16:30	07/31/14 22:30	1
Beryllium	0.65		0.22	0.045	mg/Kg	☼	07/30/14 16:30	07/31/14 22:30	1
Cadmium	0.26	B	0.11	0.014	mg/Kg	☼	07/30/14 16:30	07/31/14 22:30	1
Calcium	66000	B	110	30	mg/Kg	☼	07/30/14 16:30	08/01/14 17:51	10
Chromium	24	B	0.56	0.065	mg/Kg	☼	07/30/14 16:30	07/31/14 22:30	1
Cobalt	11		0.28	0.056	mg/Kg	☼	07/30/14 16:30	08/01/14 17:46	1
Copper	24		0.56	0.11	mg/Kg	☼	07/30/14 16:30	07/31/14 22:30	1
Iron	18000		11	4.6	mg/Kg	☼	07/30/14 16:30	07/31/14 22:30	1
Lead	120		0.28	0.084	mg/Kg	☼	07/30/14 16:30	07/31/14 22:30	1
Magnesium	25000	B	5.6	1.2	mg/Kg	☼	07/30/14 16:30	07/31/14 22:30	1
Manganese	400	B	0.56	0.11	mg/Kg	☼	07/30/14 16:30	07/31/14 22:30	1
Nickel	31		0.56	0.11	mg/Kg	☼	07/30/14 16:30	07/31/14 22:30	1
Potassium	1800		28	1.7	mg/Kg	☼	07/30/14 16:30	07/31/14 22:30	1
Selenium	0.42	J	0.56	0.20	mg/Kg	☼	07/30/14 16:30	07/31/14 22:30	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	07/30/14 16:30	07/31/14 22:30	1
Sodium	1300	B	56	7.5	mg/Kg	☼	07/30/14 16:30	08/01/14 17:46	1
Thallium	<0.56		0.56	0.24	mg/Kg	☼	07/30/14 16:30	07/31/14 22:30	1
Vanadium	23		0.28	0.042	mg/Kg	☼	07/30/14 16:30	07/31/14 22:30	1
Zinc	98		1.1	0.23	mg/Kg	☼	07/30/14 16:30	07/31/14 22:30	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		08/01/14 13:11	08/04/14 14:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		07/30/14 12:00	07/31/14 09:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	23		19	7.6	ug/Kg	☼	07/30/14 12:00	07/31/14 08:43	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.16		0.200	0.200	SU			07/30/14 13:45	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81068-1

**Client Sample ID: W-2(0-6)-072214**

**Lab Sample ID: 500-81068-9**

**Date Collected: 07/22/14 14:10**

**Matrix: Solid**

**Date Received: 07/23/14 10:00**

**Percent Solids: 85.4**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	6.6		5.9	2.5	ug/Kg	☼		07/25/14 02:22	1
Benzene	<5.9		5.9	0.80	ug/Kg	☼		07/25/14 02:22	1
Bromodichloromethane	<5.9		5.9	1.0	ug/Kg	☼		07/25/14 02:22	1
Bromoform	<5.9		5.9	1.3	ug/Kg	☼		07/25/14 02:22	1
Bromomethane	<5.9		5.9	1.8	ug/Kg	☼		07/25/14 02:22	1
Carbon disulfide	<5.9		5.9	0.87	ug/Kg	☼		07/25/14 02:22	1
Carbon tetrachloride	<5.9		5.9	1.1	ug/Kg	☼		07/25/14 02:22	1
Chlorobenzene	<5.9		5.9	0.59	ug/Kg	☼		07/25/14 02:22	1
Chloroethane	<5.9		5.9	1.6	ug/Kg	☼		07/25/14 02:22	1
Chloroform	<5.9		5.9	0.67	ug/Kg	☼		07/25/14 02:22	1
Chloromethane	<5.9		5.9	1.2	ug/Kg	☼		07/25/14 02:22	1
cis-1,2-Dichloroethene	<5.9		5.9	0.83	ug/Kg	☼		07/25/14 02:22	1
cis-1,3-Dichloropropene	<5.9		5.9	0.77	ug/Kg	☼		07/25/14 02:22	1
Dibromochloromethane	<5.9		5.9	1.0	ug/Kg	☼		07/25/14 02:22	1
1,1-Dichloroethane	<5.9		5.9	0.93	ug/Kg	☼		07/25/14 02:22	1
1,2-Dichloroethane	<5.9		5.9	0.87	ug/Kg	☼		07/25/14 02:22	1
1,1-Dichloroethene	<5.9		5.9	0.95	ug/Kg	☼		07/25/14 02:22	1
1,2-Dichloropropane	<5.9		5.9	0.89	ug/Kg	☼		07/25/14 02:22	1
1,3-Dichloropropene, Total	<5.9		5.9	0.77	ug/Kg	☼		07/25/14 02:22	1
Ethylbenzene	<5.9		5.9	1.2	ug/Kg	☼		07/25/14 02:22	1
2-Hexanone	<5.9		5.9	1.7	ug/Kg	☼		07/25/14 02:22	1
Methylene Chloride	<5.9		5.9	1.6	ug/Kg	☼		07/25/14 02:22	1
Methyl Ethyl Ketone	<5.9		5.9	2.1	ug/Kg	☼		07/25/14 02:22	1
methyl isobutyl ketone	<5.9		5.9	1.5	ug/Kg	☼		07/25/14 02:22	1
Methyl tert-butyl ether	<5.9		5.9	0.97	ug/Kg	☼		07/25/14 02:22	1
Styrene	<5.9		5.9	0.77	ug/Kg	☼		07/25/14 02:22	1
1,1,2,2-Tetrachloroethane	<5.9		5.9	1.2	ug/Kg	☼		07/25/14 02:22	1
Tetrachloroethene	<5.9		5.9	0.89	ug/Kg	☼		07/25/14 02:22	1
Toluene	<5.9		5.9	0.82	ug/Kg	☼		07/25/14 02:22	1
trans-1,2-Dichloroethene	<5.9		5.9	0.81	ug/Kg	☼		07/25/14 02:22	1
trans-1,3-Dichloropropene	<5.9		5.9	1.0	ug/Kg	☼		07/25/14 02:22	1
1,1,1-Trichloroethane	<5.9		5.9	0.87	ug/Kg	☼		07/25/14 02:22	1
1,1,2-Trichloroethane	<5.9		5.9	0.80	ug/Kg	☼		07/25/14 02:22	1
Trichloroethene	<5.9		5.9	0.97	ug/Kg	☼		07/25/14 02:22	1
Vinyl chloride	<5.9		5.9	1.2	ug/Kg	☼		07/25/14 02:22	1
Xylenes, Total	<12		12	0.53	ug/Kg	☼		07/25/14 02:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 122		07/25/14 02:22	1
Dibromofluoromethane	111		75 - 120		07/25/14 02:22	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134		07/25/14 02:22	1
Toluene-d8 (Surr)	102		75 - 122		07/25/14 02:22	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	40	ug/Kg	☼	08/05/14 14:18	08/06/14 02:28	1
1,2-Dichlorobenzene	<190		190	44	ug/Kg	☼	08/05/14 14:18	08/06/14 02:28	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	08/05/14 14:18	08/06/14 02:28	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	08/05/14 14:18	08/06/14 02:28	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	08/05/14 14:18	08/06/14 02:28	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81068-1

**Client Sample ID: W-2(0-6)-072214**

**Lab Sample ID: 500-81068-9**

**Date Collected: 07/22/14 14:10**

**Matrix: Solid**

**Date Received: 07/23/14 10:00**

**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	<370		370	85	ug/Kg	☼	08/05/14 14:18	08/06/14 02:28	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	08/05/14 14:18	08/06/14 02:28	1
2,4-Dichlorophenol	<370		370	88	ug/Kg	☼	08/05/14 14:18	08/06/14 02:28	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	08/05/14 14:18	08/06/14 02:28	1
2,4-Dinitrophenol	<750		750	650	ug/Kg	☼	08/05/14 14:18	08/06/14 02:28	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	08/05/14 14:18	08/06/14 02:28	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	08/05/14 14:18	08/06/14 02:28	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	08/05/14 14:18	08/06/14 02:28	1
2-Chlorophenol	<190		190	63	ug/Kg	☼	08/05/14 14:18	08/06/14 02:28	1
2-Methylnaphthalene	<37		37	6.8	ug/Kg	☼	08/05/14 14:18	08/06/14 02:28	1
2-Methylphenol	<190		190	60	ug/Kg	☼	08/05/14 14:18	08/06/14 02:28	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	08/05/14 14:18	08/06/14 02:28	1
2-Nitrophenol	<370		370	88	ug/Kg	☼	08/05/14 14:18	08/06/14 02:28	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	08/05/14 14:18	08/06/14 02:28	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	08/05/14 14:18	08/06/14 02:28	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	08/05/14 14:18	08/06/14 02:28	1
4,6-Dinitro-2-methylphenol	<370		370	300	ug/Kg	☼	08/05/14 14:18	08/06/14 02:28	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	08/05/14 14:18	08/06/14 02:28	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	08/05/14 14:18	08/06/14 02:28	1
4-Chloroaniline	<750		750	170	ug/Kg	☼	08/05/14 14:18	08/06/14 02:28	1
4-Chlorophenyl phenyl ether	<190		190	43	ug/Kg	☼	08/05/14 14:18	08/06/14 02:28	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	08/05/14 14:18	08/06/14 02:28	1
4-Nitrophenol	<750		750	350	ug/Kg	☼	08/05/14 14:18	08/06/14 02:28	1
Acenaphthene	<37		37	6.7	ug/Kg	☼	08/05/14 14:18	08/06/14 02:28	1
Acenaphthylene	<37		37	4.9	ug/Kg	☼	08/05/14 14:18	08/06/14 02:28	1
Anthracene	<37		37	6.2	ug/Kg	☼	08/05/14 14:18	08/06/14 02:28	1
Benzo[a]anthracene	<37		37	5.0	ug/Kg	☼	08/05/14 14:18	08/06/14 02:28	1
Benzo[a]pyrene	<37		37	7.2	ug/Kg	☼	08/05/14 14:18	08/06/14 02:28	1
Benzo[b]fluoranthene	<37		37	8.0	ug/Kg	☼	08/05/14 14:18	08/06/14 02:28	1
Benzo[g,h,i]perylene	<37		37	12	ug/Kg	☼	08/05/14 14:18	08/06/14 02:28	1
Benzo[k]fluoranthene	<37		37	11	ug/Kg	☼	08/05/14 14:18	08/06/14 02:28	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	08/05/14 14:18	08/06/14 02:28	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	08/05/14 14:18	08/06/14 02:28	1
Bis(2-ethylhexyl) phthalate	<190		190	68	ug/Kg	☼	08/05/14 14:18	08/06/14 02:28	1
Butyl benzyl phthalate	<190		190	71	ug/Kg	☼	08/05/14 14:18	08/06/14 02:28	1
Carbazole	<190		190	96	ug/Kg	☼	08/05/14 14:18	08/06/14 02:28	1
Chrysene	<37		37	10	ug/Kg	☼	08/05/14 14:18	08/06/14 02:28	1
Dibenz(a,h)anthracene	<37		37	7.2	ug/Kg	☼	08/05/14 14:18	08/06/14 02:28	1
Dibenzofuran	<190		190	44	ug/Kg	☼	08/05/14 14:18	08/06/14 02:28	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	08/05/14 14:18	08/06/14 02:28	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	08/05/14 14:18	08/06/14 02:28	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	08/05/14 14:18	08/06/14 02:28	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	08/05/14 14:18	08/06/14 02:28	1
Fluoranthene	<37		37	6.9	ug/Kg	☼	08/05/14 14:18	08/06/14 02:28	1
Fluorene	<37		37	5.2	ug/Kg	☼	08/05/14 14:18	08/06/14 02:28	1
Hexachlorobenzene	<75		75	8.6	ug/Kg	☼	08/05/14 14:18	08/06/14 02:28	1
Hexachlorobutadiene	<190		190	58	ug/Kg	☼	08/05/14 14:18	08/06/14 02:28	1
Hexachlorocyclopentadiene	<750		750	210	ug/Kg	☼	08/05/14 14:18	08/06/14 02:28	1
Hexachloroethane	<190		190	56	ug/Kg	☼	08/05/14 14:18	08/06/14 02:28	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81068-1

**Client Sample ID: W-2(0-6)-072214**

**Lab Sample ID: 500-81068-9**

**Date Collected: 07/22/14 14:10**

**Matrix: Solid**

**Date Received: 07/23/14 10:00**

**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	<37		37	9.6	ug/Kg	☼	08/05/14 14:18	08/06/14 02:28	1
Isophorone	<190		190	42	ug/Kg	☼	08/05/14 14:18	08/06/14 02:28	1
Naphthalene	<37		37	5.7	ug/Kg	☼	08/05/14 14:18	08/06/14 02:28	1
Nitrobenzene	<37		37	9.3	ug/Kg	☼	08/05/14 14:18	08/06/14 02:28	1
N-Nitrosodi-n-propylamine	<190		190	45	ug/Kg	☼	08/05/14 14:18	08/06/14 02:28	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	08/05/14 14:18	08/06/14 02:28	1
Pentachlorophenol	<750		750	600	ug/Kg	☼	08/05/14 14:18	08/06/14 02:28	1
Phenanthrene	<37		37	5.2	ug/Kg	☼	08/05/14 14:18	08/06/14 02:28	1
Phenol	<190		190	83	ug/Kg	☼	08/05/14 14:18	08/06/14 02:28	1
Pyrene	<37		37	7.4	ug/Kg	☼	08/05/14 14:18	08/06/14 02:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	55		35 - 137				08/05/14 14:18	08/06/14 02:28	1
2-Fluorobiphenyl	43		25 - 119				08/05/14 14:18	08/06/14 02:28	1
2-Fluorophenol	44		25 - 110				08/05/14 14:18	08/06/14 02:28	1
Nitrobenzene-d5	41		25 - 115				08/05/14 14:18	08/06/14 02:28	1
Phenol-d5	46		31 - 110				08/05/14 14:18	08/06/14 02:28	1
Terphenyl-d14	63		36 - 134				08/05/14 14:18	08/06/14 02:28	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		08/01/14 09:00	08/01/14 21:41	1
<b>Barium</b>	<b>0.25</b>	<b>J</b>	0.50	0.050	mg/L		08/01/14 09:00	08/01/14 21:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/01/14 09:00	08/01/14 21:41	1
<b>Cadmium</b>	<b>0.0048</b>	<b>J</b>	0.0050	0.0020	mg/L		08/01/14 09:00	08/01/14 21:41	1
Chromium	<0.025		0.025	0.010	mg/L		08/01/14 09:00	08/01/14 21:41	1
<b>Cobalt</b>	<b>0.029</b>		0.025	0.010	mg/L		08/01/14 09:00	08/01/14 21:41	1
<b>Copper</b>	<b>0.020</b>	<b>J</b>	0.025	0.010	mg/L		08/01/14 09:00	08/01/14 21:41	1
<b>Iron</b>	<b>1.7</b>		0.20	0.20	mg/L		08/01/14 09:00	08/01/14 21:41	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/01/14 09:00	08/01/14 21:41	1
<b>Manganese</b>	<b>5.5</b>		0.025	0.010	mg/L		08/01/14 09:00	08/01/14 21:41	1
<b>Nickel</b>	<b>0.037</b>		0.025	0.010	mg/L		08/01/14 09:00	08/01/14 21:41	1
<b>Selenium</b>	<b>0.016</b>	<b>J B</b>	0.050	0.010	mg/L		08/01/14 09:00	08/01/14 21:41	1
Silver	<0.025		0.025	0.010	mg/L		08/01/14 09:00	08/01/14 21:41	1
<b>Zinc</b>	<b>0.11</b>		0.10	0.020	mg/L		08/01/14 09:00	08/01/14 21:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.052</b>		0.050	0.010	mg/L		07/30/14 09:15	07/31/14 00:48	1
<b>Barium</b>	<b>0.31</b>	<b>J</b>	0.50	0.050	mg/L		07/30/14 09:15	07/31/14 00:48	1
<b>Beryllium</b>	<b>0.0041</b>		0.0040	0.0040	mg/L		07/30/14 09:15	07/31/14 00:48	1
<b>Cadmium</b>	<b>0.0026</b>	<b>J</b>	0.0050	0.0020	mg/L		07/30/14 09:15	07/31/14 00:48	1
<b>Chromium</b>	<b>0.10</b>		0.025	0.010	mg/L		07/30/14 09:15	07/31/14 00:48	1
<b>Cobalt</b>	<b>0.053</b>		0.025	0.010	mg/L		07/30/14 09:15	07/31/14 00:48	1
<b>Copper</b>	<b>0.21</b>		0.025	0.010	mg/L		07/30/14 09:15	07/31/14 00:48	1
<b>Iron</b>	<b>130</b>		0.20	0.20	mg/L		07/30/14 09:15	07/31/14 00:48	1
<b>Lead</b>	<b>0.16</b>		0.0075	0.0075	mg/L		07/30/14 09:15	07/31/14 00:48	1
<b>Manganese</b>	<b>1.1</b>		0.025	0.010	mg/L		07/30/14 09:15	07/31/14 00:48	1
<b>Nickel</b>	<b>0.14</b>		0.025	0.010	mg/L		07/30/14 09:15	07/31/14 00:48	1
Selenium	<0.050		0.050	0.010	mg/L		07/30/14 09:15	07/31/14 00:48	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81068-1

**Client Sample ID: W-2(0-6)-072214**

**Lab Sample ID: 500-81068-9**

Date Collected: 07/22/14 14:10

Matrix: Solid

Date Received: 07/23/14 10:00

**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		07/30/14 09:15	07/31/14 00:48	1
<b>Zinc</b>	<b>0.42</b>		0.10	0.020	mg/L		07/30/14 09:15	07/31/14 00:48	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.55</b>	<b>J</b>	1.1	0.45	mg/Kg	☼	07/30/14 16:30	07/31/14 22:35	1
<b>Arsenic</b>	<b>8.2</b>		0.56	0.11	mg/Kg	☼	07/30/14 16:30	07/31/14 22:35	1
<b>Barium</b>	<b>30</b>		0.56	0.060	mg/Kg	☼	07/30/14 16:30	07/31/14 22:35	1
<b>Beryllium</b>	<b>0.55</b>		0.22	0.045	mg/Kg	☼	07/30/14 16:30	07/31/14 22:35	1
<b>Cadmium</b>	<b>0.13</b>	<b>B</b>	0.11	0.014	mg/Kg	☼	07/30/14 16:30	07/31/14 22:35	1
<b>Calcium</b>	<b>120000</b>	<b>B</b>	110	30	mg/Kg	☼	07/30/14 16:30	08/01/14 18:00	10
<b>Chromium</b>	<b>15</b>	<b>B</b>	0.56	0.065	mg/Kg	☼	07/30/14 16:30	07/31/14 22:35	1
<b>Cobalt</b>	<b>17</b>		0.28	0.056	mg/Kg	☼	07/30/14 16:30	08/01/14 17:55	1
<b>Copper</b>	<b>25</b>		0.56	0.11	mg/Kg	☼	07/30/14 16:30	07/31/14 22:35	1
<b>Iron</b>	<b>17000</b>		11	4.6	mg/Kg	☼	07/30/14 16:30	07/31/14 22:35	1
<b>Lead</b>	<b>13</b>		0.28	0.083	mg/Kg	☼	07/30/14 16:30	07/31/14 22:35	1
<b>Magnesium</b>	<b>35000</b>	<b>B</b>	5.6	1.1	mg/Kg	☼	07/30/14 16:30	07/31/14 22:35	1
<b>Manganese</b>	<b>470</b>	<b>B</b>	0.56	0.11	mg/Kg	☼	07/30/14 16:30	07/31/14 22:35	1
<b>Nickel</b>	<b>32</b>		0.56	0.11	mg/Kg	☼	07/30/14 16:30	07/31/14 22:35	1
<b>Potassium</b>	<b>2100</b>		28	1.7	mg/Kg	☼	07/30/14 16:30	07/31/14 22:35	1
<b>Selenium</b>	<b>0.43</b>	<b>J</b>	0.56	0.20	mg/Kg	☼	07/30/14 16:30	07/31/14 22:35	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	07/30/14 16:30	07/31/14 22:35	1
<b>Sodium</b>	<b>860</b>	<b>B</b>	56	7.5	mg/Kg	☼	07/30/14 16:30	08/01/14 17:55	1
Thallium	<0.56		0.56	0.24	mg/Kg	☼	07/30/14 16:30	07/31/14 22:35	1
<b>Vanadium</b>	<b>18</b>		0.28	0.041	mg/Kg	☼	07/30/14 16:30	07/31/14 22:35	1
<b>Zinc</b>	<b>57</b>		1.1	0.23	mg/Kg	☼	07/30/14 16:30	07/31/14 22:35	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		08/01/14 13:11	08/04/14 14:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		07/30/14 12:00	07/31/14 09:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>19</b>		18	7.1	ug/Kg	☼	07/30/14 12:00	07/31/14 08:46	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.49</b>		0.200	0.200	SU			07/30/14 13:48	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81068-1

## 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
F2	MS/MSD RPD exceeds control limits

### Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F3	Duplicate RPD exceeds the control limit
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.
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 - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81068-1

## 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



500-81068 COC

Report To (optional)  
Contact: S. Babusankumar  
Company: Weston Solutions Inc.  
Address: 300 Plaza Circle, Ste 202  
Address: Mundelein, IL 60061  
Phone: 847 224-864-7250  
Fax: 224-864-7238  
E-Mail:

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

## Chain of Custody Record

Lab Job #: 500-81068  
Chain of Custody Number:  
Page 3 of 4  
Temperature °C of Cooler: 3.2

Client		Client Project #		Preservative		Parameter		Total Metals		TELP/SPUP Metals		PH		Preservative Key	
<u>Weston</u>														1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		Sampling		# of Containers	Matrix	VOCs	SVOCs	Total Metals	TELP/SPUP Metals	PH	Comments		
<u>IDOT-046</u>				Date	Time								Comments		
Project Location/State		Lab Project #		Sampling		# of Containers	Matrix	VOCs	SVOCs	Total Metals	TELP/SPUP Metals	PH	Comments		
<u>Lake County / IL</u>				Date	Time								Comments		
Sampler		Lab PM		Sampling		# of Containers	Matrix	VOCs	SVOCs	Total Metals	TELP/SPUP Metals	PH	Comments		
<u>T. Walls</u>		<u>D. Wright</u>		Date	Time								Comments		
1		CP-8(0-4)-072214		7-22-14	1230	2	S	X	X	X	X	X			
2		LV-1(0-3)-072214			1240										
3		LV-2(0-3)-072214			1250										
4		LV-2(0-3)-072214			1250										
5		TP-2(0-4)-072214			1315										
6		TP-1(0-4)-072214			1330										
7		R8-1(0-4)-072214			1345										
8		W-1(0-6)-072214			1400										
9		W-2(0-6)-072214			1410										
10		R11-1(0-6)-072214		7-22-14	1425	2	S	X	X	X	X	X			

Turnaround Time Required (Business Days)

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

Requested Due Date

Sample Disposal

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

Relinquished By <u>Jamethy A. White</u> Company <u>Weston</u> Date <u>7-22-14</u> Time <u>1545</u>	Received By <u>[Signature]</u> Company <u>JA</u> Date <u>7/22/14</u> Time <u>1545</u>
Relinquished By <u>[Signature]</u> Company <u>JA</u> Date <u>7/22/14</u> Time <u>955</u>	Received By <u>[Signature]</u> Company <u>JA</u> Date <u>7/23/14</u> Time <u>0835</u>
Relinquished By <u>[Signature]</u> Company <u>JA</u> Date <u>7/23/14</u> Time <u>1000</u>	Received By <u>[Signature]</u> Company <u>JA</u> Date <u>7/23/14</u> Time <u>1000</u>

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:



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 541 (Grand Ave) at Fairfield Rd Office Phone Number, if available: \_\_\_\_\_

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

37951 N. Fairfield Rd

City: Lake Villa 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: 42.414759453 Longitude: -88.106862611  
(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 541 (Grand Ave) at Fairfield Rd

Latitude: 42.414759453 Longitude: -88.106862611

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 R8-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2732-8. 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: 500-81068-1

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

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

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

Company Name: Illinois Department of Transportation

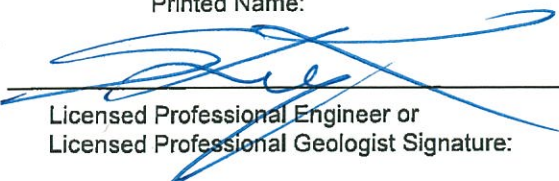
Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Steven Gobelman, P.E., L.P.G.

Printed Name:

  
 Licensed Professional Engineer or  
 Licensed Professional Geologist Signature:

2/25/15  
 Date:



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



**Summary Table of ISGS Site No. 2732-8**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAP 541 (IL Route 132; Grand Avenue) at Fairfield Road**  
**Unincorporated Lake County, Illinois**

Field Sample ID	R8-1(0-4)-072214	<b>Soil Reference Concentrations<sup>A</sup></b>
Sample Date	7/22/2014	
Location ID	R8-1	
Depth	0 - 4	
ISGS Site Number	2732-8	
Parameter		
Laboratory pH (standard units)	8.61	<6.25, >9.0
<b>VOCs (ug/kg)</b>	<b>None Detected</b>	
<b>SVOCs (ug/kg)</b>	<b>None Detected</b>	
<b>Total Metals (mg/kg)</b>		
Arsenic, Total	7.6 J-	11.3/13.0
Barium, Total	56 J	1500
Beryllium, Total	0.74 J	22
Cadmium, Total	ND	5.2
Chromium, Total	20 J	21
Cobalt, Total	13 J	20
Copper, Total	24 J	2900
Iron, Total	20000 J	15000/15900
Lead, Total	24 J	107
Magnesium, Total	22000 J	325000
Manganese, Total	530 J	630/636
Mercury, Total	0.034	0.89
Nickel, Total	36 J	100
Selenium, Total	0.36 J	1.3
<b>TCLP Metals (mg/l)</b>		
Arsenic, TCLP	ND	0.05
Barium, TCLP	0.54	2
Beryllium, TCLP	ND	0.004
Cadmium, TCLP	ND	0.005
Chromium, TCLP	ND	0.1
Cobalt, TCLP	0.017 J	1
Copper, TCLP	0.11	0.65
Iron, TCLP	0.36	5
Lead, TCLP	0.01	0.0075
Manganese, TCLP	14	0.15
Mercury, TCLP	ND	0.002
Nickel, TCLP	0.019 J	0.1
Selenium, TCLP	ND	0.05
<b>SPLP Metals (mg/l)</b>		
Arsenic, SPLP	0.097	0.05
Barium, SPLP	1.1	2
Beryllium, SPLP	0.012	0.004
Cadmium, SPLP	0.0063	0.005
Chromium, SPLP	0.28	0.1
Cobalt, SPLP	0.11	1
Copper, SPLP	0.38	0.65
Iron, SPLP	300	5
Lead, SPLP	0.23	0.0075
Manganese, SPLP	4	0.15
Mercury, SPLP	0.00039	0.002
Nickel, SPLP	0.34	0.1
Selenium, SPLP	ND	0.05

**Notes:**

--- - not applicable or value not available.

<sup>A</sup> - 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: 500-81068-1

Client Project/Site: IDOT - IL Rt. 132 - WO 046

For:

Weston Solutions, Inc.

300 Plaza Circle, Suite 202

Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar



Authorized for release by:

8/6/2014 1:51:19 PM

Richard Wright, Senior Project Manager

(708)534-5200

[richard.wright@testamericainc.com](mailto:richard.wright@testamericainc.com)

### LINKS

Review your project  
results through

**TotalAccess**

Have a Question?



Visit us at:

[www.testamericainc.com](http://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 - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81068-1

**Client Sample ID: R8-1(0-4)-072214**

**Lab Sample ID: 500-81068-7**

**Date Collected: 07/22/14 13:45**

**Matrix: Solid**

**Date Received: 07/23/14 10:00**

**Percent Solids: 86.7**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>66</b>		5.8	2.5	ug/Kg	☼		07/25/14 01:34	1
Benzene	<5.8		5.8	0.79	ug/Kg	☼		07/25/14 01:34	1
Bromodichloromethane	<5.8		5.8	0.99	ug/Kg	☼		07/25/14 01:34	1
Bromoform	<5.8		5.8	1.3	ug/Kg	☼		07/25/14 01:34	1
Bromomethane	<5.8		5.8	1.7	ug/Kg	☼		07/25/14 01:34	1
Carbon disulfide	<5.8		5.8	0.86	ug/Kg	☼		07/25/14 01:34	1
Carbon tetrachloride	<5.8		5.8	1.0	ug/Kg	☼		07/25/14 01:34	1
Chlorobenzene	<5.8		5.8	0.58	ug/Kg	☼		07/25/14 01:34	1
Chloroethane	<5.8		5.8	1.6	ug/Kg	☼		07/25/14 01:34	1
Chloroform	<5.8		5.8	0.66	ug/Kg	☼		07/25/14 01:34	1
Chloromethane	<5.8		5.8	1.2	ug/Kg	☼		07/25/14 01:34	1
cis-1,2-Dichloroethene	<5.8		5.8	0.82	ug/Kg	☼		07/25/14 01:34	1
cis-1,3-Dichloropropene	<5.8		5.8	0.76	ug/Kg	☼		07/25/14 01:34	1
Dibromochloromethane	<5.8		5.8	1.0	ug/Kg	☼		07/25/14 01:34	1
1,1-Dichloroethane	<5.8		5.8	0.91	ug/Kg	☼		07/25/14 01:34	1
1,2-Dichloroethane	<5.8		5.8	0.85	ug/Kg	☼		07/25/14 01:34	1
1,1-Dichloroethene	<5.8		5.8	0.93	ug/Kg	☼		07/25/14 01:34	1
1,2-Dichloropropane	<5.8		5.8	0.88	ug/Kg	☼		07/25/14 01:34	1
1,3-Dichloropropene, Total	<5.8		5.8	0.76	ug/Kg	☼		07/25/14 01:34	1
Ethylbenzene	<5.8		5.8	1.2	ug/Kg	☼		07/25/14 01:34	1
2-Hexanone	<5.8		5.8	1.7	ug/Kg	☼		07/25/14 01:34	1
Methylene Chloride	<5.8		5.8	1.6	ug/Kg	☼		07/25/14 01:34	1
<b>Methyl Ethyl Ketone</b>	<b>13</b>		5.8	2.1	ug/Kg	☼		07/25/14 01:34	1
methyl isobutyl ketone	<5.8		5.8	1.5	ug/Kg	☼		07/25/14 01:34	1
Methyl tert-butyl ether	<5.8		5.8	0.95	ug/Kg	☼		07/25/14 01:34	1
Styrene	<5.8		5.8	0.76	ug/Kg	☼		07/25/14 01:34	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	1.2	ug/Kg	☼		07/25/14 01:34	1
Tetrachloroethene	<5.8		5.8	0.88	ug/Kg	☼		07/25/14 01:34	1
Toluene	<5.8		5.8	0.81	ug/Kg	☼		07/25/14 01:34	1
trans-1,2-Dichloroethene	<5.8		5.8	0.79	ug/Kg	☼		07/25/14 01:34	1
trans-1,3-Dichloropropene	<5.8		5.8	1.0	ug/Kg	☼		07/25/14 01:34	1
1,1,1-Trichloroethane	<5.8		5.8	0.86	ug/Kg	☼		07/25/14 01:34	1
1,1,2-Trichloroethane	<5.8		5.8	0.79	ug/Kg	☼		07/25/14 01:34	1
Trichloroethene	<5.8		5.8	0.95	ug/Kg	☼		07/25/14 01:34	1
Vinyl chloride	<5.8		5.8	1.2	ug/Kg	☼		07/25/14 01:34	1
Xylenes, Total	<12		12	0.52	ug/Kg	☼		07/25/14 01:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 122		07/25/14 01:34	1
Dibromofluoromethane	109		75 - 120		07/25/14 01:34	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 134		07/25/14 01:34	1
Toluene-d8 (Surr)	103		75 - 122		07/25/14 01:34	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	☼	08/05/14 14:18	08/06/14 05:51	1
1,2-Dichlorobenzene	<190		190	44	ug/Kg	☼	08/05/14 14:18	08/06/14 05:51	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	08/05/14 14:18	08/06/14 05:51	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	08/05/14 14:18	08/06/14 05:51	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	08/05/14 14:18	08/06/14 05:51	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81068-1

**Client Sample ID: R8-1(0-4)-072214**

**Lab Sample ID: 500-81068-7**

**Date Collected: 07/22/14 13:45**

**Matrix: Solid**

**Date Received: 07/23/14 10:00**

**Percent Solids: 86.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	85	ug/Kg	☼	08/05/14 14:18	08/06/14 05:51	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	08/05/14 14:18	08/06/14 05:51	1
2,4-Dichlorophenol	<370		370	88	ug/Kg	☼	08/05/14 14:18	08/06/14 05:51	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	08/05/14 14:18	08/06/14 05:51	1
2,4-Dinitrophenol	<750		750	650	ug/Kg	☼	08/05/14 14:18	08/06/14 05:51	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	08/05/14 14:18	08/06/14 05:51	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	08/05/14 14:18	08/06/14 05:51	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	08/05/14 14:18	08/06/14 05:51	1
2-Chlorophenol	<190		190	63	ug/Kg	☼	08/05/14 14:18	08/06/14 05:51	1
2-Methylnaphthalene	<37		37	6.8	ug/Kg	☼	08/05/14 14:18	08/06/14 05:51	1
2-Methylphenol	<190		190	60	ug/Kg	☼	08/05/14 14:18	08/06/14 05:51	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	08/05/14 14:18	08/06/14 05:51	1
2-Nitrophenol	<370		370	88	ug/Kg	☼	08/05/14 14:18	08/06/14 05:51	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	08/05/14 14:18	08/06/14 05:51	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	08/05/14 14:18	08/06/14 05:51	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	08/05/14 14:18	08/06/14 05:51	1
4,6-Dinitro-2-methylphenol	<370		370	300	ug/Kg	☼	08/05/14 14:18	08/06/14 05:51	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	08/05/14 14:18	08/06/14 05:51	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	08/05/14 14:18	08/06/14 05:51	1
4-Chloroaniline	<750		750	170	ug/Kg	☼	08/05/14 14:18	08/06/14 05:51	1
4-Chlorophenyl phenyl ether	<190		190	43	ug/Kg	☼	08/05/14 14:18	08/06/14 05:51	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	08/05/14 14:18	08/06/14 05:51	1
4-Nitrophenol	<750		750	350	ug/Kg	☼	08/05/14 14:18	08/06/14 05:51	1
Acenaphthene	<37		37	6.7	ug/Kg	☼	08/05/14 14:18	08/06/14 05:51	1
Acenaphthylene	<37		37	4.9	ug/Kg	☼	08/05/14 14:18	08/06/14 05:51	1
Anthracene	<37		37	6.2	ug/Kg	☼	08/05/14 14:18	08/06/14 05:51	1
Benzo[a]anthracene	<37		37	5.0	ug/Kg	☼	08/05/14 14:18	08/06/14 05:51	1
Benzo[a]pyrene	<37		37	7.2	ug/Kg	☼	08/05/14 14:18	08/06/14 05:51	1
Benzo[b]fluoranthene	<37		37	8.0	ug/Kg	☼	08/05/14 14:18	08/06/14 05:51	1
Benzo[g,h,i]perylene	<37		37	12	ug/Kg	☼	08/05/14 14:18	08/06/14 05:51	1
Benzo[k]fluoranthene	<37		37	11	ug/Kg	☼	08/05/14 14:18	08/06/14 05:51	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	08/05/14 14:18	08/06/14 05:51	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	08/05/14 14:18	08/06/14 05:51	1
Bis(2-ethylhexyl) phthalate	<190		190	68	ug/Kg	☼	08/05/14 14:18	08/06/14 05:51	1
Butyl benzyl phthalate	<190		190	71	ug/Kg	☼	08/05/14 14:18	08/06/14 05:51	1
Carbazole	<190		190	96	ug/Kg	☼	08/05/14 14:18	08/06/14 05:51	1
Chrysene	<37		37	10	ug/Kg	☼	08/05/14 14:18	08/06/14 05:51	1
Dibenz(a,h)anthracene	<37		37	7.2	ug/Kg	☼	08/05/14 14:18	08/06/14 05:51	1
Dibenzofuran	<190		190	43	ug/Kg	☼	08/05/14 14:18	08/06/14 05:51	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	08/05/14 14:18	08/06/14 05:51	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	08/05/14 14:18	08/06/14 05:51	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	08/05/14 14:18	08/06/14 05:51	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	08/05/14 14:18	08/06/14 05:51	1
<b>Fluoranthene</b>	<b>9.1</b>	<b>J</b>	37	6.9	ug/Kg	☼	08/05/14 14:18	08/06/14 05:51	1
Fluorene	<37		37	5.2	ug/Kg	☼	08/05/14 14:18	08/06/14 05:51	1
Hexachlorobenzene	<75		75	8.6	ug/Kg	☼	08/05/14 14:18	08/06/14 05:51	1
Hexachlorobutadiene	<190		190	58	ug/Kg	☼	08/05/14 14:18	08/06/14 05:51	1
Hexachlorocyclopentadiene	<750		750	210	ug/Kg	☼	08/05/14 14:18	08/06/14 05:51	1
Hexachloroethane	<190		190	56	ug/Kg	☼	08/05/14 14:18	08/06/14 05:51	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81068-1

**Client Sample ID: R8-1(0-4)-072214**

**Lab Sample ID: 500-81068-7**

**Date Collected: 07/22/14 13:45**

**Matrix: Solid**

**Date Received: 07/23/14 10:00**

**Percent Solids: 86.7**

**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	9.6	ug/Kg	☼	08/05/14 14:18	08/06/14 05:51	1
Isophorone	<190		190	42	ug/Kg	☼	08/05/14 14:18	08/06/14 05:51	1
Naphthalene	<37		37	5.7	ug/Kg	☼	08/05/14 14:18	08/06/14 05:51	1
Nitrobenzene	<37		37	9.3	ug/Kg	☼	08/05/14 14:18	08/06/14 05:51	1
N-Nitrosodi-n-propylamine	<190		190	45	ug/Kg	☼	08/05/14 14:18	08/06/14 05:51	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	08/05/14 14:18	08/06/14 05:51	1
Pentachlorophenol	<750		750	600	ug/Kg	☼	08/05/14 14:18	08/06/14 05:51	1
<b>Phenanthrene</b>	<b>12</b>	<b>J</b>	37	5.2	ug/Kg	☼	08/05/14 14:18	08/06/14 05:51	1
Phenol	<190		190	83	ug/Kg	☼	08/05/14 14:18	08/06/14 05:51	1
<b>Pyrene</b>	<b>8.6</b>	<b>J</b>	37	7.4	ug/Kg	☼	08/05/14 14:18	08/06/14 05:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	70		35 - 137				08/05/14 14:18	08/06/14 05:51	1
2-Fluorobiphenyl	47		25 - 119				08/05/14 14:18	08/06/14 05:51	1
2-Fluorophenol	55		25 - 110				08/05/14 14:18	08/06/14 05:51	1
Nitrobenzene-d5	43		25 - 115				08/05/14 14:18	08/06/14 05:51	1
Phenol-d5	51		31 - 110				08/05/14 14:18	08/06/14 05:51	1
Terphenyl-d14	73		36 - 134				08/05/14 14:18	08/06/14 05:51	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		08/01/14 09:00	08/01/14 21:31	1
<b>Barium</b>	<b>0.54</b>		0.50	0.050	mg/L		08/01/14 09:00	08/01/14 21:31	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/01/14 09:00	08/01/14 21:31	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/01/14 09:00	08/01/14 21:31	1
Chromium	<0.025		0.025	0.010	mg/L		08/01/14 09:00	08/01/14 21:31	1
<b>Cobalt</b>	<b>0.017</b>	<b>J</b>	0.025	0.010	mg/L		08/01/14 09:00	08/01/14 21:31	1
<b>Copper</b>	<b>0.11</b>		0.025	0.010	mg/L		08/01/14 09:00	08/01/14 21:31	1
<b>Iron</b>	<b>0.36</b>		0.20	0.20	mg/L		08/01/14 09:00	08/01/14 21:31	1
<b>Lead</b>	<b>0.010</b>		0.0075	0.0075	mg/L		08/01/14 09:00	08/01/14 21:31	1
<b>Manganese</b>	<b>14</b>		0.025	0.010	mg/L		08/01/14 09:00	08/01/14 21:31	1
<b>Nickel</b>	<b>0.019</b>	<b>J</b>	0.025	0.010	mg/L		08/01/14 09:00	08/01/14 21:31	1
<b>Selenium</b>	<b>0.024</b>	<b>J B</b>	0.050	0.010	mg/L		08/01/14 09:00	08/01/14 21:31	1
Silver	<0.025		0.025	0.010	mg/L		08/01/14 09:00	08/01/14 21:31	1
<b>Zinc</b>	<b>0.076</b>	<b>J</b>	0.10	0.020	mg/L		08/01/14 09:00	08/01/14 21:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.097</b>		0.050	0.010	mg/L		07/30/14 09:15	07/31/14 00:36	1
<b>Barium</b>	<b>1.1</b>		0.50	0.050	mg/L		07/30/14 09:15	07/31/14 00:36	1
<b>Beryllium</b>	<b>0.012</b>		0.0040	0.0040	mg/L		07/30/14 09:15	07/31/14 00:36	1
<b>Cadmium</b>	<b>0.0063</b>		0.0050	0.0020	mg/L		07/30/14 09:15	07/31/14 00:36	1
<b>Chromium</b>	<b>0.28</b>		0.025	0.010	mg/L		07/30/14 09:15	07/31/14 00:36	1
<b>Cobalt</b>	<b>0.11</b>		0.025	0.010	mg/L		07/30/14 09:15	07/31/14 00:36	1
<b>Copper</b>	<b>0.38</b>		0.025	0.010	mg/L		07/30/14 09:15	07/31/14 00:36	1
<b>Iron</b>	<b>300</b>		0.20	0.20	mg/L		07/30/14 09:15	07/31/14 00:36	1
<b>Lead</b>	<b>0.23</b>		0.0075	0.0075	mg/L		07/30/14 09:15	07/31/14 00:36	1
<b>Manganese</b>	<b>4.0</b>		0.025	0.010	mg/L		07/30/14 09:15	07/31/14 00:36	1
<b>Nickel</b>	<b>0.34</b>		0.025	0.010	mg/L		07/30/14 09:15	07/31/14 00:36	1
Selenium	<0.050		0.050	0.010	mg/L		07/30/14 09:15	07/31/14 00:36	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81068-1

**Client Sample ID: R8-1(0-4)-072214**

**Lab Sample ID: 500-81068-7**

Date Collected: 07/22/14 13:45

Matrix: Solid

Date Received: 07/23/14 10:00

**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		07/30/14 09:15	07/31/14 00:36	1
Zinc	0.58		0.10	0.020	mg/L		07/30/14 09:15	07/31/14 00:36	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.45	mg/Kg	☼	07/30/14 16:30	07/31/14 22:25	1
Arsenic	7.6		0.56	0.11	mg/Kg	☼	07/30/14 16:30	07/31/14 22:25	1
Barium	56		0.56	0.060	mg/Kg	☼	07/30/14 16:30	07/31/14 22:25	1
Beryllium	0.74		0.23	0.045	mg/Kg	☼	07/30/14 16:30	07/31/14 22:25	1
Cadmium	0.029	J B	0.11	0.014	mg/Kg	☼	07/30/14 16:30	07/31/14 22:25	1
Calcium	31000	B	11	3.1	mg/Kg	☼	07/30/14 16:30	08/01/14 17:37	1
Chromium	20	B	0.56	0.065	mg/Kg	☼	07/30/14 16:30	07/31/14 22:25	1
Cobalt	13		0.28	0.056	mg/Kg	☼	07/30/14 16:30	08/01/14 17:37	1
Copper	24		0.56	0.11	mg/Kg	☼	07/30/14 16:30	07/31/14 22:25	1
Iron	20000		11	4.6	mg/Kg	☼	07/30/14 16:30	07/31/14 22:25	1
Lead	24		0.28	0.084	mg/Kg	☼	07/30/14 16:30	07/31/14 22:25	1
Magnesium	22000	B	5.6	1.2	mg/Kg	☼	07/30/14 16:30	07/31/14 22:25	1
Manganese	530	B	0.56	0.11	mg/Kg	☼	07/30/14 16:30	07/31/14 22:25	1
Nickel	36		0.56	0.11	mg/Kg	☼	07/30/14 16:30	07/31/14 22:25	1
Potassium	2000		28	1.7	mg/Kg	☼	07/30/14 16:30	07/31/14 22:25	1
Selenium	0.36	J	0.56	0.20	mg/Kg	☼	07/30/14 16:30	07/31/14 22:25	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	07/30/14 16:30	07/31/14 22:25	1
Sodium	1100	B	56	7.5	mg/Kg	☼	07/30/14 16:30	08/01/14 17:37	1
Thallium	<0.56		0.56	0.24	mg/Kg	☼	07/30/14 16:30	07/31/14 22:25	1
Vanadium	23		0.28	0.042	mg/Kg	☼	07/30/14 16:30	07/31/14 22:25	1
Zinc	65		1.1	0.23	mg/Kg	☼	07/30/14 16:30	07/31/14 22:25	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		08/01/14 13:11	08/04/14 14:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.39		0.20	0.20	ug/L		07/30/14 12:00	07/31/14 09:00	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	34		17	6.7	ug/Kg	☼	07/30/14 12:00	07/31/14 08:35	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.61		0.200	0.200	SU			07/30/14 13:42	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81068-1

## 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
F2	MS/MSD RPD exceeds control limits

### Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F3	Duplicate RPD exceeds the control limit
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.
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 - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81068-1

## 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





500-81068 COC

Report To (optional)  
Contact: S. Babusankumar  
Company: Weston Solutions Inc.  
Address: 300 Plaza Circle, Ste 202  
Address: Mundelein, IL 60061  
Phone: 847 224-864-7250  
Fax: 224-864-7238  
E-Mail:

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

## Chain of Custody Record

Lab Job #: 500-81068  
Chain of Custody Number:  
Page 3 of 4  
Temperature °C of Cooler: 3.2

Client		Client Project #		Preservative		Parameter		Total Metals		TELP/SPLP Metals		PH		Preservative Key	
<u>Weston</u>														1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		# of Containers	Matrix	VOCs	S-VOCs	Total Metals	TELP/SPLP Metals	PH	Comments				
<u>IDOT-046</u>															
Project Location/State		Lab Project #		Sampling											
<u>Lake County / IL</u>				Date	Time										
Sampler		Lab PM													
<u>T. Walls</u>		<u>D. Wright</u>													
1	MS/MSD	Sample ID													
		<u>CP-8(0-4)-072214</u>	<u>7-22-14</u>	<u>1230</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>				
2		<u>LV-1(0-3)-072214</u>		<u>1240</u>											
3		<u>LV-2(0-3)-072214</u>		<u>1250</u>											
4		<u>LV-2(0-3)-072214D</u>		<u>1250</u>											
5		<u>TP-2(0-4)-072214</u>		<u>1315</u>											
6		<u>TP-1(0-4)-072214</u>		<u>1330</u>											
7		<u>R8-1(0-4)-072214</u>		<u>1345</u>											
8		<u>W-1(0-6)-072214</u>		<u>1400</u>											
9		<u>W-2(0-6)-072214</u>		<u>1410</u>											
10		<u>R11-1(0-6)-072214</u>	<u>7-22-14</u>	<u>1425</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>				

Turnaround Time Required (Business Days)

1 Day  2 Days  5 Days  7 Days  10 Days  15 Days  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>Jamethy A. White</u> Company: <u>Weston</u> Date: <u>7-22-14</u> Time: <u>1545</u>	Received By <u>JA</u> Company: <u>JA</u> Date: <u>7/22/14</u> Time: <u>1545</u>
Relinquished By <u>JA</u> Company: <u>JA</u> Date: <u>7/22/14</u> Time: <u>955</u>	Received By <u>JA</u> Company: <u>JA</u> Date: <u>7/23/14</u> Time: <u>0835</u>
Relinquished By <u>JA</u> Company: <u>JA</u> Date: <u>7/23/14</u> Time: <u>1000</u>	Received By <u>JA</u> Company: <u>JA</u> Date: <u>7/23/14</u> Time: <u>1000</u>

Lab Courier: JA  
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 541 (Grand Ave) at Fairfield Rd Office Phone Number, if available: \_\_\_\_\_

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

37925 N. Fairfield Rd

City: Lake Villa 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: 42.413492581 Longitude: -88.107096722

(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 541 (Grand Ave) at Fairfield Rd  
Latitude: 42.413492581 Longitude: -88.107096722

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 TP-2 WAS SAMPLED ADJACENT TO ISGS SITE No. 2732-9. 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: 500-81068-1

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


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

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

Company Name: Illinois Department of Transportation  
Street Address: 2300 South Dirksen Parkway  
City: Springfield State: IL Zip Code: 62764  
Phone: 217-785-4246

Steven Gobelman, P.E., L.P.G.

Printed Name:



Licensed Professional Engineer or  
Licensed Professional Geologist Signature:

2/25/15

Date:



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

**Summary Table of ISGS Site No. 2732-9**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAP 541 (IL Route 132; Grand Avenue) at Fairfield Road**  
**Unincorporated Lake County, Illinois**

Field Sample ID	TP-2(0-4)-072214	<b>Soil Reference Concentrations<sup>A</sup></b>
Sample Date	7/22/2014	
Location ID	TP-2	
Depth	0 - 4	
ISGS Site Number	2732-9	
Parameter		
Laboratory pH (standard units)	8.58	<6.25, >9.0
<b>VOCs (ug/kg)</b>	<b>None Detected</b>	
<b>SVOCs (ug/kg)</b>		
Benzo(a)pyrene	69 J	90 / 1300 / 2100
<b>Total Metals (mg/kg)</b>		
Arsenic, Total	7 J-	11.3/13.0
Barium, Total	39 J	1500
Beryllium, Total	0.52 J	22
Cadmium, Total	0.15 B	5.2
Chromium, Total	14 J	21
Cobalt, Total	10 J	20
Copper, Total	19 J	2900
Iron, Total	16000 J	15000/15900
Lead, Total	27 J	107
Magnesium, Total	24000 J	325000
Manganese, Total	410 J	630/636
Mercury, Total	0.018	0.89
Nickel, Total	22 J	100
Selenium, Total	0.47 J	1.3
<b>TCLP Metals (mg/l)</b>		
Arsenic, TCLP	0.011 J	0.05
Barium, TCLP	0.43 J	2
Beryllium, TCLP	ND	0.004
Cadmium, TCLP	ND	0.005
Chromium, TCLP	ND	0.1
Cobalt, TCLP	0.017 J	1
Copper, TCLP	0.027	0.65
Iron, TCLP	0.28	5
Lead, TCLP	ND	0.0075
Manganese, TCLP	6.3	0.15
Mercury, TCLP	ND	0.002
Nickel, TCLP	0.019 J	0.1
Selenium, TCLP	ND	0.05
<b>SPLP Metals (mg/l)</b>		
Arsenic, SPLP	ND	0.05
Barium, SPLP	0.32 J	2
Beryllium, SPLP	ND	0.004
Cadmium, SPLP	ND	0.005
Chromium, SPLP	0.014 J	0.1
Cobalt, SPLP	ND	1
Copper, SPLP	0.049	0.65
Iron, SPLP	12	5
Lead, SPLP	0.086	0.0075
Manganese, SPLP	0.75	0.15
Mercury, SPLP	ND	0.002
Nickel, SPLP	0.016 J	0.1
Selenium, SPLP	ND	0.05

**Notes:**

--- - not applicable or value not available.

<sup>A</sup> - 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: 500-81068-1

Client Project/Site: IDOT - IL Rt. 132 - WO 046

For:

Weston Solutions, Inc.

300 Plaza Circle, Suite 202

Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar



Authorized for release by:

8/6/2014 1:51:19 PM

Richard Wright, Senior Project Manager

(708)534-5200

[richard.wright@testamericainc.com](mailto:richard.wright@testamericainc.com)

### LINKS

Review your project  
results through

TotalAccess

Have a Question?



Visit us at:

[www.testamericainc.com](http://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 - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81068-1

**Client Sample ID: TP-2(0-4)-072214**

**Lab Sample ID: 500-81068-5**

**Date Collected: 07/22/14 13:15**

**Matrix: Solid**

**Date Received: 07/23/14 10:00**

**Percent Solids: 92.8**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>32</b>		5.4	2.3	ug/Kg	☼		07/25/14 00:45	1
Benzene	<5.4		5.4	0.74	ug/Kg	☼		07/25/14 00:45	1
Bromodichloromethane	<5.4		5.4	0.93	ug/Kg	☼		07/25/14 00:45	1
Bromoform	<5.4		5.4	1.2	ug/Kg	☼		07/25/14 00:45	1
Bromomethane	<5.4		5.4	1.6	ug/Kg	☼		07/25/14 00:45	1
Carbon disulfide	<5.4		5.4	0.81	ug/Kg	☼		07/25/14 00:45	1
Carbon tetrachloride	<5.4		5.4	0.98	ug/Kg	☼		07/25/14 00:45	1
Chlorobenzene	<5.4		5.4	0.55	ug/Kg	☼		07/25/14 00:45	1
Chloroethane	<5.4		5.4	1.5	ug/Kg	☼		07/25/14 00:45	1
Chloroform	<5.4		5.4	0.62	ug/Kg	☼		07/25/14 00:45	1
Chloromethane	<5.4		5.4	1.1	ug/Kg	☼		07/25/14 00:45	1
cis-1,2-Dichloroethene	<5.4		5.4	0.76	ug/Kg	☼		07/25/14 00:45	1
cis-1,3-Dichloropropene	<5.4		5.4	0.71	ug/Kg	☼		07/25/14 00:45	1
Dibromochloromethane	<5.4		5.4	0.94	ug/Kg	☼		07/25/14 00:45	1
1,1-Dichloroethane	<5.4		5.4	0.85	ug/Kg	☼		07/25/14 00:45	1
1,2-Dichloroethane	<5.4		5.4	0.80	ug/Kg	☼		07/25/14 00:45	1
1,1-Dichloroethene	<5.4		5.4	0.87	ug/Kg	☼		07/25/14 00:45	1
1,2-Dichloropropane	<5.4		5.4	0.82	ug/Kg	☼		07/25/14 00:45	1
1,3-Dichloropropene, Total	<5.4		5.4	0.71	ug/Kg	☼		07/25/14 00:45	1
Ethylbenzene	<5.4		5.4	1.1	ug/Kg	☼		07/25/14 00:45	1
2-Hexanone	<5.4		5.4	1.6	ug/Kg	☼		07/25/14 00:45	1
Methylene Chloride	<5.4		5.4	1.5	ug/Kg	☼		07/25/14 00:45	1
<b>Methyl Ethyl Ketone</b>	<b>8.6</b>		5.4	2.0	ug/Kg	☼		07/25/14 00:45	1
methyl isobutyl ketone	<5.4		5.4	1.4	ug/Kg	☼		07/25/14 00:45	1
Methyl tert-butyl ether	<5.4		5.4	0.89	ug/Kg	☼		07/25/14 00:45	1
Styrene	<5.4		5.4	0.71	ug/Kg	☼		07/25/14 00:45	1
1,1,2,2-Tetrachloroethane	<5.4		5.4	1.1	ug/Kg	☼		07/25/14 00:45	1
Tetrachloroethene	<5.4		5.4	0.82	ug/Kg	☼		07/25/14 00:45	1
Toluene	<5.4		5.4	0.75	ug/Kg	☼		07/25/14 00:45	1
trans-1,2-Dichloroethene	<5.4		5.4	0.74	ug/Kg	☼		07/25/14 00:45	1
trans-1,3-Dichloropropene	<5.4		5.4	0.97	ug/Kg	☼		07/25/14 00:45	1
1,1,1-Trichloroethane	<5.4		5.4	0.81	ug/Kg	☼		07/25/14 00:45	1
1,1,2-Trichloroethane	<5.4		5.4	0.74	ug/Kg	☼		07/25/14 00:45	1
Trichloroethene	<5.4		5.4	0.89	ug/Kg	☼		07/25/14 00:45	1
Vinyl chloride	<5.4		5.4	1.1	ug/Kg	☼		07/25/14 00:45	1
Xylenes, Total	<11		11	0.49	ug/Kg	☼		07/25/14 00:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 122		07/25/14 00:45	1
Dibromofluoromethane	108		75 - 120		07/25/14 00:45	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134		07/25/14 00:45	1
Toluene-d8 (Surr)	103		75 - 122		07/25/14 00:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<880		880	190	ug/Kg	☼	08/05/14 14:18	08/06/14 11:17	5
1,2-Dichlorobenzene	<880		880	210	ug/Kg	☼	08/05/14 14:18	08/06/14 11:17	5
1,3-Dichlorobenzene	<880		880	200	ug/Kg	☼	08/05/14 14:18	08/06/14 11:17	5
1,4-Dichlorobenzene	<880		880	220	ug/Kg	☼	08/05/14 14:18	08/06/14 11:17	5
2,2'-oxybis[1-chloropropane]	<880		880	200	ug/Kg	☼	08/05/14 14:18	08/06/14 11:17	5

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81068-1

**Client Sample ID: TP-2(0-4)-072214**

**Lab Sample ID: 500-81068-5**

**Date Collected: 07/22/14 13:15**

**Matrix: Solid**

**Date Received: 07/23/14 10:00**

**Percent Solids: 92.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<1700		1700	400	ug/Kg	☼	08/05/14 14:18	08/06/14 11:17	5
2,4,6-Trichlorophenol	<1700		1700	600	ug/Kg	☼	08/05/14 14:18	08/06/14 11:17	5
2,4-Dichlorophenol	<1700		1700	420	ug/Kg	☼	08/05/14 14:18	08/06/14 11:17	5
2,4-Dimethylphenol	<1700		1700	670	ug/Kg	☼	08/05/14 14:18	08/06/14 11:17	5
2,4-Dinitrophenol	<3500		3500	3100	ug/Kg	☼	08/05/14 14:18	08/06/14 11:17	5
2,4-Dinitrotoluene	<880		880	280	ug/Kg	☼	08/05/14 14:18	08/06/14 11:17	5
2,6-Dinitrotoluene	<880		880	340	ug/Kg	☼	08/05/14 14:18	08/06/14 11:17	5
2-Chloronaphthalene	<880		880	190	ug/Kg	☼	08/05/14 14:18	08/06/14 11:17	5
2-Chlorophenol	<880		880	300	ug/Kg	☼	08/05/14 14:18	08/06/14 11:17	5
2-Methylnaphthalene	<170		170	32	ug/Kg	☼	08/05/14 14:18	08/06/14 11:17	5
2-Methylphenol	<880		880	280	ug/Kg	☼	08/05/14 14:18	08/06/14 11:17	5
2-Nitroaniline	<880		880	240	ug/Kg	☼	08/05/14 14:18	08/06/14 11:17	5
2-Nitrophenol	<1700		1700	410	ug/Kg	☼	08/05/14 14:18	08/06/14 11:17	5
3 & 4 Methylphenol	<880		880	290	ug/Kg	☼	08/05/14 14:18	08/06/14 11:17	5
3,3'-Dichlorobenzidine	<880		880	250	ug/Kg	☼	08/05/14 14:18	08/06/14 11:17	5
3-Nitroaniline	<1700		1700	540	ug/Kg	☼	08/05/14 14:18	08/06/14 11:17	5
4,6-Dinitro-2-methylphenol	<1700		1700	1400	ug/Kg	☼	08/05/14 14:18	08/06/14 11:17	5
4-Bromophenyl phenyl ether	<880		880	230	ug/Kg	☼	08/05/14 14:18	08/06/14 11:17	5
4-Chloro-3-methylphenol	<1700		1700	600	ug/Kg	☼	08/05/14 14:18	08/06/14 11:17	5
4-Chloroaniline	<3500		3500	820	ug/Kg	☼	08/05/14 14:18	08/06/14 11:17	5
4-Chlorophenyl phenyl ether	<880		880	200	ug/Kg	☼	08/05/14 14:18	08/06/14 11:17	5
4-Nitroaniline	<1700		1700	730	ug/Kg	☼	08/05/14 14:18	08/06/14 11:17	5
4-Nitrophenol	<3500		3500	1700	ug/Kg	☼	08/05/14 14:18	08/06/14 11:17	5
Acenaphthene	<170		170	32	ug/Kg	☼	08/05/14 14:18	08/06/14 11:17	5
Acenaphthylene	<170		170	23	ug/Kg	☼	08/05/14 14:18	08/06/14 11:17	5
Anthracene	<170		170	29	ug/Kg	☼	08/05/14 14:18	08/06/14 11:17	5
<b>Benzo[a]anthracene</b>	<b>42 J</b>		170	24	ug/Kg	☼	08/05/14 14:18	08/06/14 11:17	5
<b>Benzo[a]pyrene</b>	<b>69 J</b>		170	34	ug/Kg	☼	08/05/14 14:18	08/06/14 11:17	5
<b>Benzo[b]fluoranthene</b>	<b>62 J</b>		170	38	ug/Kg	☼	08/05/14 14:18	08/06/14 11:17	5
Benzo[g,h,i]perylene	<170		170	57	ug/Kg	☼	08/05/14 14:18	08/06/14 11:17	5
Benzo[k]fluoranthene	<170		170	52	ug/Kg	☼	08/05/14 14:18	08/06/14 11:17	5
Bis(2-chloroethoxy)methane	<880		880	180	ug/Kg	☼	08/05/14 14:18	08/06/14 11:17	5
Bis(2-chloroethyl)ether	<880		880	260	ug/Kg	☼	08/05/14 14:18	08/06/14 11:17	5
Bis(2-ethylhexyl) phthalate	<880		880	320	ug/Kg	☼	08/05/14 14:18	08/06/14 11:17	5
Butyl benzyl phthalate	<880		880	330	ug/Kg	☼	08/05/14 14:18	08/06/14 11:17	5
Carbazole	<880		880	450	ug/Kg	☼	08/05/14 14:18	08/06/14 11:17	5
<b>Chrysene</b>	<b>71 J</b>		170	48	ug/Kg	☼	08/05/14 14:18	08/06/14 11:17	5
Dibenz(a,h)anthracene	<170		170	34	ug/Kg	☼	08/05/14 14:18	08/06/14 11:17	5
Dibenzofuran	<880		880	210	ug/Kg	☼	08/05/14 14:18	08/06/14 11:17	5
Diethyl phthalate	<880		880	300	ug/Kg	☼	08/05/14 14:18	08/06/14 11:17	5
Dimethyl phthalate	<880		880	230	ug/Kg	☼	08/05/14 14:18	08/06/14 11:17	5
Di-n-butyl phthalate	<880		880	270	ug/Kg	☼	08/05/14 14:18	08/06/14 11:17	5
Di-n-octyl phthalate	<880		880	290	ug/Kg	☼	08/05/14 14:18	08/06/14 11:17	5
<b>Fluoranthene</b>	<b>42 J</b>		170	33	ug/Kg	☼	08/05/14 14:18	08/06/14 11:17	5
Fluorene	<170		170	25	ug/Kg	☼	08/05/14 14:18	08/06/14 11:17	5
Hexachlorobenzene	<350		350	41	ug/Kg	☼	08/05/14 14:18	08/06/14 11:17	5
Hexachlorobutadiene	<880		880	280	ug/Kg	☼	08/05/14 14:18	08/06/14 11:17	5
Hexachlorocyclopentadiene	<3500		3500	1000	ug/Kg	☼	08/05/14 14:18	08/06/14 11:17	5
Hexachloroethane	<880		880	270	ug/Kg	☼	08/05/14 14:18	08/06/14 11:17	5

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81068-1

**Client Sample ID: TP-2(0-4)-072214**

**Lab Sample ID: 500-81068-5**

**Date Collected: 07/22/14 13:15**

**Matrix: Solid**

**Date Received: 07/23/14 10:00**

**Percent Solids: 92.8**

**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	<170		170	45	ug/Kg	☼	08/05/14 14:18	08/06/14 11:17	5
Isophorone	<880		880	200	ug/Kg	☼	08/05/14 14:18	08/06/14 11:17	5
Naphthalene	<170		170	27	ug/Kg	☼	08/05/14 14:18	08/06/14 11:17	5
Nitrobenzene	<170		170	44	ug/Kg	☼	08/05/14 14:18	08/06/14 11:17	5
N-Nitrosodi-n-propylamine	<880		880	210	ug/Kg	☼	08/05/14 14:18	08/06/14 11:17	5
N-Nitrosodiphenylamine	<880		880	210	ug/Kg	☼	08/05/14 14:18	08/06/14 11:17	5
Pentachlorophenol	<3500		3500	2800	ug/Kg	☼	08/05/14 14:18	08/06/14 11:17	5
<b>Phenanthrene</b>	<b>44</b>	<b>J</b>	170	24	ug/Kg	☼	08/05/14 14:18	08/06/14 11:17	5
Phenol	<880		880	390	ug/Kg	☼	08/05/14 14:18	08/06/14 11:17	5
<b>Pyrene</b>	<b>120</b>	<b>J</b>	170	35	ug/Kg	☼	08/05/14 14:18	08/06/14 11:17	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	62		35 - 137				08/05/14 14:18	08/06/14 11:17	5
2-Fluorobiphenyl	58		25 - 119				08/05/14 14:18	08/06/14 11:17	5
2-Fluorophenol	56		25 - 110				08/05/14 14:18	08/06/14 11:17	5
Nitrobenzene-d5	58		25 - 115				08/05/14 14:18	08/06/14 11:17	5
Phenol-d5	60		31 - 110				08/05/14 14:18	08/06/14 11:17	5
Terphenyl-d14	90		36 - 134				08/05/14 14:18	08/06/14 11:17	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.011</b>	<b>J</b>	0.050	0.010	mg/L		08/01/14 09:00	08/01/14 21:21	1
<b>Barium</b>	<b>0.43</b>	<b>J</b>	0.50	0.050	mg/L		08/01/14 09:00	08/01/14 21:21	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/01/14 09:00	08/01/14 21:21	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/01/14 09:00	08/01/14 21:21	1
Chromium	<0.025		0.025	0.010	mg/L		08/01/14 09:00	08/01/14 21:21	1
<b>Cobalt</b>	<b>0.017</b>	<b>J</b>	0.025	0.010	mg/L		08/01/14 09:00	08/01/14 21:21	1
<b>Copper</b>	<b>0.027</b>		0.025	0.010	mg/L		08/01/14 09:00	08/01/14 21:21	1
<b>Iron</b>	<b>0.28</b>		0.20	0.20	mg/L		08/01/14 09:00	08/01/14 21:21	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/01/14 09:00	08/01/14 21:21	1
<b>Manganese</b>	<b>6.3</b>		0.025	0.010	mg/L		08/01/14 09:00	08/01/14 21:21	1
<b>Nickel</b>	<b>0.019</b>	<b>J</b>	0.025	0.010	mg/L		08/01/14 09:00	08/01/14 21:21	1
<b>Selenium</b>	<b>0.022</b>	<b>J B</b>	0.050	0.010	mg/L		08/01/14 09:00	08/01/14 21:21	1
Silver	<0.025		0.025	0.010	mg/L		08/01/14 09:00	08/01/14 21:21	1
<b>Zinc</b>	<b>0.087</b>	<b>J</b>	0.10	0.020	mg/L		08/01/14 09:00	08/01/14 21:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		07/30/14 09:15	07/31/14 00:23	1
<b>Barium</b>	<b>0.32</b>	<b>J</b>	0.50	0.050	mg/L		07/30/14 09:15	07/31/14 00:23	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/30/14 09:15	07/31/14 00:23	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/30/14 09:15	07/31/14 00:23	1
<b>Chromium</b>	<b>0.014</b>	<b>J</b>	0.025	0.010	mg/L		07/30/14 09:15	07/31/14 00:23	1
Cobalt	<0.025		0.025	0.010	mg/L		07/30/14 09:15	07/31/14 00:23	1
<b>Copper</b>	<b>0.049</b>		0.025	0.010	mg/L		07/30/14 09:15	07/31/14 00:23	1
<b>Iron</b>	<b>12</b>		0.20	0.20	mg/L		07/30/14 09:15	07/31/14 00:23	1
<b>Lead</b>	<b>0.086</b>		0.0075	0.0075	mg/L		07/30/14 09:15	07/31/14 00:23	1
<b>Manganese</b>	<b>0.75</b>		0.025	0.010	mg/L		07/30/14 09:15	07/31/14 00:23	1
<b>Nickel</b>	<b>0.016</b>	<b>J</b>	0.025	0.010	mg/L		07/30/14 09:15	07/31/14 00:23	1
Selenium	<0.050		0.050	0.010	mg/L		07/30/14 09:15	07/31/14 00:23	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81068-1

**Client Sample ID: TP-2(0-4)-072214**

**Lab Sample ID: 500-81068-5**

Date Collected: 07/22/14 13:15

Matrix: Solid

Date Received: 07/23/14 10:00

**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		07/30/14 09:15	07/31/14 00:23	1
<b>Zinc</b>	<b>0.073</b>	<b>J</b>	0.10	0.020	mg/L		07/30/14 09:15	07/31/14 00:23	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.42	mg/Kg	☼	07/30/14 16:30	07/31/14 22:15	1
<b>Arsenic</b>	<b>7.0</b>		0.52	0.10	mg/Kg	☼	07/30/14 16:30	07/31/14 22:15	1
<b>Barium</b>	<b>39</b>		0.52	0.056	mg/Kg	☼	07/30/14 16:30	07/31/14 22:15	1
<b>Beryllium</b>	<b>0.52</b>		0.21	0.042	mg/Kg	☼	07/30/14 16:30	07/31/14 22:15	1
<b>Cadmium</b>	<b>0.15</b>	<b>B</b>	0.10	0.013	mg/Kg	☼	07/30/14 16:30	07/31/14 22:15	1
<b>Calcium</b>	<b>53000</b>	<b>B</b>	100	28	mg/Kg	☼	07/30/14 16:30	08/01/14 17:28	10
<b>Chromium</b>	<b>14</b>	<b>B</b>	0.52	0.060	mg/Kg	☼	07/30/14 16:30	07/31/14 22:15	1
<b>Cobalt</b>	<b>10</b>		0.26	0.052	mg/Kg	☼	07/30/14 16:30	08/01/14 17:23	1
<b>Copper</b>	<b>19</b>		0.52	0.10	mg/Kg	☼	07/30/14 16:30	07/31/14 22:15	1
<b>Iron</b>	<b>16000</b>		10	4.3	mg/Kg	☼	07/30/14 16:30	07/31/14 22:15	1
<b>Lead</b>	<b>27</b>		0.26	0.077	mg/Kg	☼	07/30/14 16:30	07/31/14 22:15	1
<b>Magnesium</b>	<b>24000</b>	<b>B</b>	5.2	1.1	mg/Kg	☼	07/30/14 16:30	07/31/14 22:15	1
<b>Manganese</b>	<b>410</b>	<b>B</b>	0.52	0.10	mg/Kg	☼	07/30/14 16:30	07/31/14 22:15	1
<b>Nickel</b>	<b>22</b>		0.52	0.10	mg/Kg	☼	07/30/14 16:30	07/31/14 22:15	1
<b>Potassium</b>	<b>1300</b>		26	1.6	mg/Kg	☼	07/30/14 16:30	07/31/14 22:15	1
<b>Selenium</b>	<b>0.47</b>	<b>J</b>	0.52	0.18	mg/Kg	☼	07/30/14 16:30	07/31/14 22:15	1
Silver	<0.26		0.26	0.019	mg/Kg	☼	07/30/14 16:30	07/31/14 22:15	1
<b>Sodium</b>	<b>2700</b>	<b>B</b>	52	7.0	mg/Kg	☼	07/30/14 16:30	08/01/14 17:23	1
Thallium	<0.52		0.52	0.22	mg/Kg	☼	07/30/14 16:30	07/31/14 22:15	1
<b>Vanadium</b>	<b>19</b>		0.26	0.038	mg/Kg	☼	07/30/14 16:30	07/31/14 22:15	1
<b>Zinc</b>	<b>63</b>		1.0	0.21	mg/Kg	☼	07/30/14 16:30	07/31/14 22:15	1

**Method: 7470A - Mercury (CVAA) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		08/01/14 13:11	08/04/14 13:59	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		07/30/14 12:00	07/31/14 08:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>18</b>		17	6.6	ug/Kg	☼	07/30/14 12:00	07/31/14 08:31	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.58</b>		0.200	0.200	SU			07/30/14 13:36	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81068-1

## 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
F2	MS/MSD RPD exceeds control limits

### Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F3	Duplicate RPD exceeds the control limit
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.
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 - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81068-1

## 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



500-81068 COC

Report To (optional)  
Contact: S. Babusankumar  
Company: Weston Solutions Inc.  
Address: 300 Plaza Circle, Ste 202  
Address: Mundelein, IL 60061  
Phone: 847 224-864-7250  
Fax: 224-864-7238  
E-Mail:

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

## Chain of Custody Record

Lab Job #: 500-81068  
Chain of Custody Number:  
Page 3 of 4  
Temperature °C of Cooler: 3.2

Client		Client Project #		Preservative		Parameter		Total Metals		TELP/SPLP Metals		PH		Comments	
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs	SVOCs	Total Metals	TELP/SPLP Metals	PH				
1		CP-8(0-4)-072214	7-22-14	1230	2	S	X	X	X	X	X				
2		LV-1(0-3)-072214		1240											
3		LV-2(0-3)-072214		1250											
4		LV-2(0-3)-072214D		1250											
5		TP-2(0-4)-072214		1315											
6		TP-1(0-4)-072214		1330											
7		R8-1(0-4)-072214		1345											
8		W-1(0-6)-072214		1400											
9		W-2(0-6)-072214		1410											
10		R11-1(0-6)-072214	7-22-14	1425	2	S	X	X	X	X	X				

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

Turnaround Time Required (Business Days)

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

Requested Due Date \_\_\_\_\_

Sample Disposal

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

Relinquished By <u>Jamethy A. White</u> Company: <u>Weston</u> Date: <u>7-22-14</u> Time: <u>1545</u>	Received By <u>[Signature]</u> Company: <u>JA</u> Date: <u>7/22/14</u> Time: <u>1545</u>
Relinquished By <u>[Signature]</u> Company: <u>JA</u> Date: <u>7/22/14</u> Time: <u>955</u>	Received By <u>[Signature]</u> Company: <u>JA</u> Date: <u>7/23/14</u> Time: <u>0835</u>
Relinquished By <u>[Signature]</u> Company: <u>JA</u> Date: <u>7/23/14</u> Time: <u>1000</u>	Received By <u>[Signature]</u> Company: <u>JA</u> Date: <u>7/23/14</u> Time: <u>1000</u>

Lab Courier: JA  
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 541 (Grand Ave) at Fairfield Rd Office Phone Number, if available: \_\_\_\_\_

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

24198 W. Grand Ave

City: Lake Villa 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: 42.415506123 Longitude: -88.105645143

(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 541 (Grand Ave) at Fairfield Rd

Latitude: 42.415506123 Longitude: -88.105645143

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 CLM-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2732-10. 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: 500-81266-1

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

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

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

Company Name: Illinois Department of Transportation

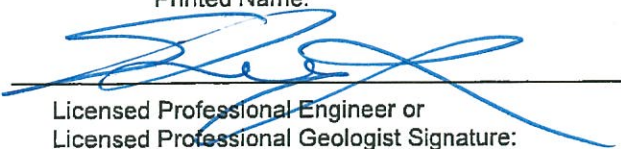
Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

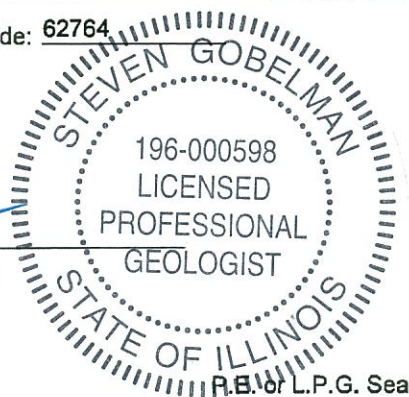
Steven Gobelman, P.E., L.P.G.

Printed Name:

  
 Licensed Professional Engineer or  
 Licensed Professional Geologist Signature:

Date:

2/25/15



**Summary Table of ISGS Site No. 2732-10**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAP 541 (IL Route 132; Grand Avenue) at Fairfield Road**  
**Unincorporated Lake County, Illinois**

Field Sample ID	CLM-1(0-6)-072514	<b>Soil Reference Concentrations<sup>A</sup></b>
Sample Date	7/25/2014	
Location ID	CLM-1	
Depth	0 - 6	
ISGS Site Number	2732-10	
<b>Parameter</b>		
Laboratory pH (standard units)	8.4	<6.25, >9.0
<b>VOCs (ug/kg)</b>	<b>None Detected</b>	
<b>SVOCs (ug/kg)</b>	<b>None Detected</b>	
<b>Total Metals (mg/kg)</b>		
Arsenic, Total	7.6 J	11.3/13.0
Barium, Total	33 J-	1500
Beryllium, Total	0.48	22
Cadmium, Total	1.3 J	5.2
Chromium, Total	13 J+	21
Cobalt, Total	7.8 J	20
Copper, Total	26 J-	2900
Iron, Total	21000 J	15000/15900
Lead, Total	11 J-	107
Magnesium, Total	39000 J-	325000
Manganese, Total	540 J	630/636
Mercury, Total	0.021 J	0.89
Nickel, Total	23	100
Selenium, Total	ND	1.3
<b>TCLP Metals (mg/l)</b>		
Arsenic, TCLP	ND	0.05
Barium, TCLP	0.3 J	2
Beryllium, TCLP	ND	0.004
Cadmium, TCLP	ND	0.005
Chromium, TCLP	ND	0.1
Cobalt, TCLP	ND	1
Copper, TCLP	ND	0.65
Iron, TCLP	ND	5
Lead, TCLP	ND	0.0075
Manganese, TCLP	0.58	0.15
Mercury, TCLP	ND	0.002
Nickel, TCLP	ND	0.1
Selenium, TCLP	ND	0.05
<b>SPLP Metals (mg/l)</b>		
Arsenic, SPLP	0.024 J	0.05
Barium, SPLP	0.33 J	2
Beryllium, SPLP	ND	0.004
Cadmium, SPLP	ND	0.005
Chromium, SPLP	0.1	0.1
Cobalt, SPLP	0.025	1
Copper, SPLP	0.087	0.65
Iron, SPLP	83 J+	5
Lead, SPLP	0.052	0.0075
Manganese, SPLP	0.26	0.15
Mercury, SPLP	ND	0.002
Nickel, SPLP	0.093	0.1
Selenium, SPLP	ND	0.05

**Notes:**

--- - not applicable or value not available.

<sup>A</sup> - 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: 500-81266-1  
Client Project/Site: IDOT - IL Rt. 132 - WO 046

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

Attn: Mr. S. Babusukumar



Authorized for release by:  
8/11/2014 4:30:03 PM

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

### LINKS

Review your project  
results through  
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Have a Question?



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

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

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

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# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81266-1

**Client Sample ID: CLM-1(0-6)-072514**

**Lab Sample ID: 500-81266-7**

**Date Collected: 07/25/14 09:49**

**Matrix: Solid**

**Date Received: 07/26/14 06:30**

**Percent Solids: 78.8**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<6.3		6.3	2.7	ug/Kg	*		07/30/14 02:53	1
Benzene	<6.3		6.3	0.87	ug/Kg	*		07/30/14 02:53	1
Bromodichloromethane	<6.3		6.3	1.1	ug/Kg	*		07/30/14 02:53	1
Bromoform	<6.3		6.3	1.5	ug/Kg	*		07/30/14 02:53	1
Bromomethane	<6.3		6.3	1.9	ug/Kg	*		07/30/14 02:53	1
Carbon disulfide	<6.3		6.3	0.95	ug/Kg	*		07/30/14 02:53	1
Carbon tetrachloride	<6.3		6.3	1.2	ug/Kg	*		07/30/14 02:53	1
Chlorobenzene	<6.3		6.3	0.64	ug/Kg	*		07/30/14 02:53	1
Chloroethane	<6.3		6.3	1.7	ug/Kg	*		07/30/14 02:53	1
Chloroform	<6.3		6.3	0.73	ug/Kg	*		07/30/14 02:53	1
Chloromethane	<6.3		6.3	1.3	ug/Kg	*		07/30/14 02:53	1
cis-1,2-Dichloroethene	<6.3		6.3	0.90	ug/Kg	*		07/30/14 02:53	1
cis-1,3-Dichloropropene	<6.3		6.3	0.83	ug/Kg	*		07/30/14 02:53	1
Dibromochloromethane	<6.3		6.3	1.1	ug/Kg	*		07/30/14 02:53	1
1,1-Dichloroethane	<6.3		6.3	1.0	ug/Kg	*		07/30/14 02:53	1
1,2-Dichloroethane	<6.3		6.3	0.94	ug/Kg	*		07/30/14 02:53	1
1,1,1-Dichloroethene	<6.3		6.3	1.0	ug/Kg	*		07/30/14 02:53	1
1,2-Dichloropropane	<6.3		6.3	0.96	ug/Kg	*		07/30/14 02:53	1
1,3-Dichloropropene, Total	<6.3		6.3	0.83	ug/Kg	*		07/30/14 02:53	1
Ethylbenzene	<6.3		6.3	1.3	ug/Kg	*		07/30/14 02:53	1
2-Hexanone	<6.3		6.3	1.8	ug/Kg	*		07/30/14 02:53	1
Methylene Chloride	<6.3		6.3	1.7	ug/Kg	*		07/30/14 02:53	1
Methyl Ethyl Ketone	<6.3		6.3	2.3	ug/Kg	*		07/30/14 02:53	1
methyl isobutyl ketone	<6.3		6.3	1.7	ug/Kg	*		07/30/14 02:53	1
Methyl tert-butyl ether	<6.3		6.3	1.0	ug/Kg	*		07/30/14 02:53	1
Styrene	<6.3		6.3	0.83	ug/Kg	*		07/30/14 02:53	1
1,1,1,2-Tetrachloroethane	<6.3		6.3	1.3	ug/Kg	*		07/30/14 02:53	1
Tetrachloroethene	<6.3		6.3	0.97	ug/Kg	*		07/30/14 02:53	1
Toluene	<6.3		6.3	0.89	ug/Kg	*		07/30/14 02:53	1
trans-1,2-Dichloroethene	<6.3		6.3	0.87	ug/Kg	*		07/30/14 02:53	1
trans-1,3-Dichloropropene	<6.3		6.3	1.1	ug/Kg	*		07/30/14 02:53	1
1,1,1-Trichloroethane	<6.3		6.3	0.95	ug/Kg	*		07/30/14 02:53	1
1,1,2-Trichloroethane	<6.3		6.3	0.87	ug/Kg	*		07/30/14 02:53	1
Trichloroethene	<6.3		6.3	1.0	ug/Kg	*		07/30/14 02:53	1
Vinyl chloride	<6.3		6.3	1.3	ug/Kg	*		07/30/14 02:53	1
Xylenes, Total	<13		13	0.58	ug/Kg	*		07/30/14 02:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 122		07/30/14 02:53	1
Dibromofluoromethane	111		75 - 120		07/30/14 02:53	1
1,2-Dichloroethane-d4 (Surr)	113		70 - 134		07/30/14 02:53	1
Toluene-d8 (Surr)	100		75 - 122		07/30/14 02:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<200		200	43	ug/Kg	*	08/07/14 07:44	08/08/14 03:12	1
1,2-Dichlorobenzene	<200		200	48	ug/Kg	*	08/07/14 07:44	08/08/14 03:12	1
1,3-Dichlorobenzene	<200		200	45	ug/Kg	*	08/07/14 07:44	08/08/14 03:12	1
1,4-Dichlorobenzene	<200		200	51	ug/Kg	*	08/07/14 07:44	08/08/14 03:12	1
2,2'-oxybis[1-chloropropane]	<200		200	46	ug/Kg	*	08/07/14 07:44	08/08/14 03:12	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81266-1

**Client Sample ID: CLM-1(0-6)-072514**

**Lab Sample ID: 500-81266-7**

**Date Collected: 07/25/14 09:49**

**Matrix: Solid**

**Date Received: 07/26/14 06:30**

**Percent Solids: 78.8**

**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	☼	08/07/14 07:44	08/08/14 03:12	1
2,4,6-Trichlorophenol	<400		400	140	ug/Kg	☼	08/07/14 07:44	08/08/14 03:12	1
2,4-Dichlorophenol	<400		400	95	ug/Kg	☼	08/07/14 07:44	08/08/14 03:12	1
2,4-Dimethylphenol	<400		400	150	ug/Kg	☼	08/07/14 07:44	08/08/14 03:12	1
2,4-Dinitrophenol	<810		810	700	ug/Kg	☼	08/07/14 07:44	08/08/14 03:12	1
2,4-Dinitrotoluene	<200		200	64	ug/Kg	☼	08/07/14 07:44	08/08/14 03:12	1
2,6-Dinitrotoluene	<200		200	79	ug/Kg	☼	08/07/14 07:44	08/08/14 03:12	1
2-Chloronaphthalene	<200		200	44	ug/Kg	☼	08/07/14 07:44	08/08/14 03:12	1
2-Chlorophenol	<200		200	68	ug/Kg	☼	08/07/14 07:44	08/08/14 03:12	1
2-Methylnaphthalene	<40		40	7.4	ug/Kg	☼	08/07/14 07:44	08/08/14 03:12	1
2-Methylphenol	<200		200	64	ug/Kg	☼	08/07/14 07:44	08/08/14 03:12	1
2-Nitroaniline	<200		200	54	ug/Kg	☼	08/07/14 07:44	08/08/14 03:12	1
2-Nitrophenol	<400		400	95	ug/Kg	☼	08/07/14 07:44	08/08/14 03:12	1
3 & 4 Methylphenol	<200		200	67	ug/Kg	☼	08/07/14 07:44	08/08/14 03:12	1
3,3'-Dichlorobenzidine	<200		200	56	ug/Kg	☼	08/07/14 07:44	08/08/14 03:12	1
3-Nitroaniline	<400		400	120	ug/Kg	☼	08/07/14 07:44	08/08/14 03:12	1
4,6-Dinitro-2-methylphenol	<400		400	320	ug/Kg	☼	08/07/14 07:44	08/08/14 03:12	1
4-Bromophenyl phenyl ether	<200		200	53	ug/Kg	☼	08/07/14 07:44	08/08/14 03:12	1
4-Chloro-3-methylphenol	<400		400	140	ug/Kg	☼	08/07/14 07:44	08/08/14 03:12	1
4-Chloroaniline	<810		810	190	ug/Kg	☼	08/07/14 07:44	08/08/14 03:12	1
4-Chlorophenyl phenyl ether	<200		200	47	ug/Kg	☼	08/07/14 07:44	08/08/14 03:12	1
4-Nitroaniline	<400		400	170	ug/Kg	☼	08/07/14 07:44	08/08/14 03:12	1
4-Nitrophenol	<810		810	380	ug/Kg	☼	08/07/14 07:44	08/08/14 03:12	1
Acenaphthene	<40		40	7.2	ug/Kg	☼	08/07/14 07:44	08/08/14 03:12	1
Acenaphthylene	<40		40	5.3	ug/Kg	☼	08/07/14 07:44	08/08/14 03:12	1
Anthracene	<40		40	6.7	ug/Kg	☼	08/07/14 07:44	08/08/14 03:12	1
Benzo[a]anthracene	<40		40	5.4	ug/Kg	☼	08/07/14 07:44	08/08/14 03:12	1
Benzo[a]pyrene	<40		40	7.7	ug/Kg	☼	08/07/14 07:44	08/08/14 03:12	1
Benzo[b]fluoranthene	<40		40	8.6	ug/Kg	☼	08/07/14 07:44	08/08/14 03:12	1
Benzo[g,h,i]perylene	<40		40	13	ug/Kg	☼	08/07/14 07:44	08/08/14 03:12	1
Benzo[k]fluoranthene	<40		40	12	ug/Kg	☼	08/07/14 07:44	08/08/14 03:12	1
Bis(2-chloroethoxy)methane	<200		200	41	ug/Kg	☼	08/07/14 07:44	08/08/14 03:12	1
Bis(2-chloroethyl)ether	<200		200	60	ug/Kg	☼	08/07/14 07:44	08/08/14 03:12	1
Bis(2-ethylhexyl) phthalate	<200		200	73	ug/Kg	☼	08/07/14 07:44	08/08/14 03:12	1
Butyl benzyl phthalate	<200		200	76	ug/Kg	☼	08/07/14 07:44	08/08/14 03:12	1
Carbazole	<200		200	100	ug/Kg	☼	08/07/14 07:44	08/08/14 03:12	1
Chrysene	<40		40	11	ug/Kg	☼	08/07/14 07:44	08/08/14 03:12	1
Dibenz(a,h)anthracene	<40		40	7.7	ug/Kg	☼	08/07/14 07:44	08/08/14 03:12	1
Dibenzofuran	<200		200	47	ug/Kg	☼	08/07/14 07:44	08/08/14 03:12	1
Diethyl phthalate	<200		200	68	ug/Kg	☼	08/07/14 07:44	08/08/14 03:12	1
Dimethyl phthalate	<200		200	52	ug/Kg	☼	08/07/14 07:44	08/08/14 03:12	1
Di-n-butyl phthalate	<200		200	61	ug/Kg	☼	08/07/14 07:44	08/08/14 03:12	1
Di-n-octyl phthalate	<200		200	65	ug/Kg	☼	08/07/14 07:44	08/08/14 03:12	1
Fluoranthene	<40		40	7.4	ug/Kg	☼	08/07/14 07:44	08/08/14 03:12	1
Fluorene	<40		40	5.6	ug/Kg	☼	08/07/14 07:44	08/08/14 03:12	1
Hexachlorobenzene	<81		81	9.3	ug/Kg	☼	08/07/14 07:44	08/08/14 03:12	1
Hexachlorobutadiene	<200		200	63	ug/Kg	☼	08/07/14 07:44	08/08/14 03:12	1
Hexachlorocyclopentadiene	<810		810	230	ug/Kg	☼	08/07/14 07:44	08/08/14 03:12	1
Hexachloroethane	<200		200	61	ug/Kg	☼	08/07/14 07:44	08/08/14 03:12	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81266-1

**Client Sample ID: CLM-1(0-6)-072514**

**Lab Sample ID: 500-81266-7**

**Date Collected: 07/25/14 09:49**

**Matrix: Solid**

**Date Received: 07/26/14 06:30**

**Percent Solids: 78.8**

**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	<40		40	10	ug/Kg	☼	08/07/14 07:44	08/08/14 03:12	1
Isophorone	<200		200	45	ug/Kg	☼	08/07/14 07:44	08/08/14 03:12	1
Naphthalene	<40		40	6.2	ug/Kg	☼	08/07/14 07:44	08/08/14 03:12	1
Nitrobenzene	<40		40	10	ug/Kg	☼	08/07/14 07:44	08/08/14 03:12	1
N-Nitrosodi-n-propylamine	<200		200	49	ug/Kg	☼	08/07/14 07:44	08/08/14 03:12	1
N-Nitrosodiphenylamine	<200		200	47	ug/Kg	☼	08/07/14 07:44	08/08/14 03:12	1
Pentachlorophenol	<810		810	640	ug/Kg	☼	08/07/14 07:44	08/08/14 03:12	1
Phenanthrene	<40		40	5.6	ug/Kg	☼	08/07/14 07:44	08/08/14 03:12	1
Phenol	<200		200	89	ug/Kg	☼	08/07/14 07:44	08/08/14 03:12	1
Pyrene	<40		40	7.9	ug/Kg	☼	08/07/14 07:44	08/08/14 03:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	62		35 - 137				08/07/14 07:44	08/08/14 03:12	1
2-Fluorobiphenyl	54		25 - 119				08/07/14 07:44	08/08/14 03:12	1
2-Fluorophenol	60		25 - 110				08/07/14 07:44	08/08/14 03:12	1
Nitrobenzene-d5	53		25 - 115				08/07/14 07:44	08/08/14 03:12	1
Phenol-d5	62		31 - 110				08/07/14 07:44	08/08/14 03:12	1
Terphenyl-d14	79		36 - 134				08/07/14 07:44	08/08/14 03:12	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		08/05/14 08:30	08/06/14 02:07	1
<b>Barium</b>	<b>0.30</b>	<b>J</b>	0.50	0.050	mg/L		08/05/14 08:30	08/06/14 02:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/05/14 08:30	08/06/14 02:07	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/05/14 08:30	08/06/14 02:07	1
Chromium	<0.025		0.025	0.010	mg/L		08/05/14 08:30	08/06/14 02:07	1
Cobalt	<0.025		0.025	0.010	mg/L		08/05/14 08:30	08/06/14 02:07	1
Copper	<0.025		0.025	0.010	mg/L		08/05/14 08:30	08/06/14 02:07	1
Iron	<0.20		0.20	0.20	mg/L		08/05/14 08:30	08/06/14 02:07	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/05/14 08:30	08/06/14 02:07	1
<b>Manganese</b>	<b>0.58</b>		0.025	0.010	mg/L		08/05/14 08:30	08/06/14 02:07	1
Nickel	<0.025		0.025	0.010	mg/L		08/05/14 08:30	08/06/14 02:07	1
Selenium	<0.050		0.050	0.010	mg/L		08/05/14 08:30	08/06/14 02:07	1
Silver	<0.025		0.025	0.010	mg/L		08/05/14 08:30	08/06/14 02:07	1
<b>Zinc</b>	<b>0.058</b>	<b>J</b>	0.10	0.020	mg/L		08/05/14 08:30	08/06/14 02:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.024</b>	<b>J</b>	0.050	0.010	mg/L		08/05/14 10:30	08/06/14 05:11	1
<b>Barium</b>	<b>0.33</b>	<b>J</b>	0.50	0.050	mg/L		08/05/14 10:30	08/06/14 05:11	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/05/14 10:30	08/06/14 05:11	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/05/14 10:30	08/06/14 05:11	1
<b>Chromium</b>	<b>0.10</b>		0.025	0.010	mg/L		08/05/14 10:30	08/06/14 05:11	1
<b>Cobalt</b>	<b>0.025</b>		0.025	0.010	mg/L		08/05/14 10:30	08/06/14 05:11	1
<b>Copper</b>	<b>0.087</b>		0.025	0.010	mg/L		08/05/14 10:30	08/06/14 05:11	1
<b>Iron</b>	<b>83</b>		0.20	0.20	mg/L		08/05/14 10:30	08/06/14 05:11	1
<b>Lead</b>	<b>0.052</b>		0.0075	0.0075	mg/L		08/05/14 10:30	08/06/14 05:11	1
<b>Manganese</b>	<b>0.26</b>		0.025	0.010	mg/L		08/05/14 10:30	08/06/14 05:11	1
<b>Nickel</b>	<b>0.093</b>		0.025	0.010	mg/L		08/05/14 10:30	08/06/14 05:11	1
Selenium	<0.050		0.050	0.010	mg/L		08/05/14 10:30	08/06/14 05:11	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81266-1

**Client Sample ID: CLM-1(0-6)-072514**

**Lab Sample ID: 500-81266-7**

Date Collected: 07/25/14 09:49

Matrix: Solid

Date Received: 07/26/14 06:30

**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		08/05/14 10:30	08/06/14 05:11	1
<b>Zinc</b>	<b>0.23</b>	<b>B</b>	0.10	0.020	mg/L		08/05/14 10:30	08/06/14 05:11	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.49	mg/Kg	☼	08/01/14 17:50	08/04/14 22:25	1
<b>Arsenic</b>	<b>7.6</b>		0.61	0.12	mg/Kg	☼	08/01/14 17:50	08/04/14 22:25	1
<b>Barium</b>	<b>33</b>		0.61	0.065	mg/Kg	☼	08/01/14 17:50	08/04/14 22:25	1
<b>Beryllium</b>	<b>0.48</b>		0.24	0.049	mg/Kg	☼	08/01/14 17:50	08/04/14 22:25	1
<b>Cadmium</b>	<b>1.3</b>		0.12	0.015	mg/Kg	☼	08/01/14 17:50	08/04/14 22:25	1
<b>Calcium</b>	<b>87000</b>		120	33	mg/Kg	☼	08/01/14 17:50	08/05/14 20:43	10
<b>Chromium</b>	<b>13</b>	<b>B</b>	0.61	0.070	mg/Kg	☼	08/01/14 17:50	08/04/14 22:25	1
<b>Cobalt</b>	<b>7.8</b>		0.30	0.061	mg/Kg	☼	08/01/14 17:50	08/04/14 22:25	1
<b>Copper</b>	<b>26</b>		0.61	0.12	mg/Kg	☼	08/01/14 17:50	08/04/14 22:25	1
<b>Iron</b>	<b>21000</b>		12	5.0	mg/Kg	☼	08/01/14 17:50	08/04/14 22:25	1
<b>Lead</b>	<b>11</b>	<b>B</b>	0.30	0.090	mg/Kg	☼	08/01/14 17:50	08/04/14 22:25	1
<b>Magnesium</b>	<b>39000</b>		6.1	1.3	mg/Kg	☼	08/01/14 17:50	08/04/14 22:25	1
<b>Manganese</b>	<b>540</b>		0.61	0.12	mg/Kg	☼	08/01/14 17:50	08/04/14 22:25	1
<b>Nickel</b>	<b>23</b>		0.61	0.12	mg/Kg	☼	08/01/14 17:50	08/04/14 22:25	1
<b>Potassium</b>	<b>1800</b>		30	1.8	mg/Kg	☼	08/01/14 17:50	08/04/14 22:25	1
Selenium	<0.61		0.61	0.22	mg/Kg	☼	08/01/14 17:50	08/04/14 22:25	1
<b>Silver</b>	<b>0.072</b>	<b>J</b>	0.30	0.022	mg/Kg	☼	08/01/14 17:50	08/04/14 22:25	1
<b>Sodium</b>	<b>260</b>		61	8.1	mg/Kg	☼	08/01/14 17:50	08/04/14 22:25	1
<b>Thallium</b>	<b>0.67</b>		0.61	0.26	mg/Kg	☼	08/01/14 17:50	08/04/14 22:25	1
<b>Vanadium</b>	<b>18</b>	<b>B</b>	0.30	0.045	mg/Kg	☼	08/01/14 17:50	08/04/14 22:25	1
<b>Zinc</b>	<b>65</b>		1.2	0.25	mg/Kg	☼	08/01/14 17:50	08/04/14 22:25	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		08/05/14 12:00	08/06/14 10:11	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		08/05/14 12:00	08/06/14 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
<b>Mercury</b>	<b>21</b>		21	8.3	ug/Kg	☼	08/01/14 12:00	08/04/14 12:44	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.40</b>		0.200	0.200	SU			08/01/14 14:45	1

TestAmerica Chicago

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81266-1

## 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.
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
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.
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 - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81266-1

## 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 ENVIRONMENT.

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



500-81266 COC

Report To (optional)  
 Contact: S. Babusukumar  
 Company: Weston Solutions Inc.  
 Address: 300 Plaza Circle, Ste. 202  
Mundelein, IL 60060  
 Phone: 224-864-7250  
 Fax: 224-864-7236  
 E-Mail:

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

## Chain of Custody Record

Lab Job #: 500-81266

Chain of Custody Number: \_\_\_\_\_

Page 1 of 3

Temperature °C of Cooler: (4.0) (3.7)

Client		Client Project #		Preservative		Parameter		Matrix		Comments	
Weston Solutions Inc.				8	8	8	8	8			Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other
Project Name IDOT 046-IL132 (Grand Ave)		Lab Project #									
Project Location/State Lake County, IL		Lab PM D. Wright									
Lab ID	MIS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCs	SVOCs	TOTAL METALS	TRU/SLUR METALS	pH
1		R13-3(0-4)-072514	7-25-14	0825	2	S	X	X	X	X	X
2		R13-3(48)-072514	7-25-14	0830	2	S	X	X	X	X	X
3		R13-2(0-4)-072514	7-25-14	0855	2	S	X	X	X	X	X
4		R13-2(4-8)-072514	7-25-14	0900	2	S	X	X	X	X	X
5		R13-1(0-4)-072514	7-25-14	0925	2	S	X	X	X	X	X
6		R13-1(4-8)-072514	7-25-14	0930	2	S	X	X	X	X	X
7		CLM-1(0-6)-072514	7-25-14	0949	2	S	X	X	X	X	X
8		PA-4(0-6)-072514	7-25-14	1010	2	S	X	X	X	X	X
9		PA-3(0-6)-072514	7-25-14	1030	2	S	X	X	X	X	X
10		PA-2(0-6)-072514	7-25-14	1110	2	S	X	X	X	X	X

Turnaround Time Required (Business Days)

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

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>7-25-14</u> Time: <u>1526</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>7/25/14</u> Time: <u>1526</u>
Relinquished By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>7/25/14</u> Time: <u>1650</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>7/26/14</u> Time: <u>0630</u>
Relinquished By: <u>[Signature]</u> Company: _____ Date: _____ Time: <u>1835</u>	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 541 (Grand Ave) at Fairfield Rd Office Phone Number, if available: \_\_\_\_\_

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

24205 W. Grand Ave

City: Lake Villa 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: 42.415416982 Longitude: -88.105846338  
(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 541 (Grand Ave) at Fairfield Rd

Latitude: 42.415416982 Longitude: -88.105846338

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 R11-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2732-11. 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: 500-81068-1

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

I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100:205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

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

Company Name: Illinois Department of Transportation

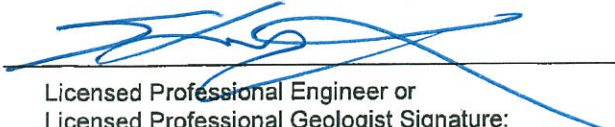
Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

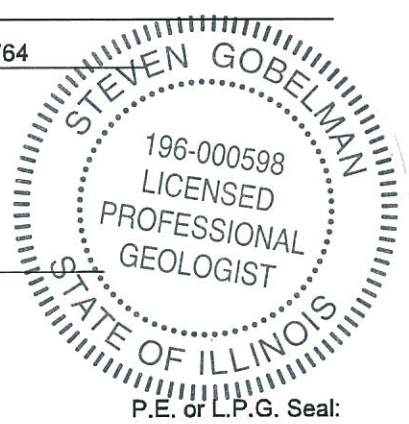
Phone: 217-785-4246

Steven Gobelman, P.E., L.P.G.

Printed Name:

  
 Licensed Professional Engineer or  
 Licensed Professional Geologist Signature:

2/25/15  
 Date:



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

**Summary Table of ISGS Site No. 2732-11**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAP 541 (IL Route 132; Grand Avenue) at Fairfield Road**  
**Unincorporated Lake County, Illinois**

Field Sample ID	R11-1(0-6)-072214	
Sample Date	7/22/2014	
Location ID	R11-1	
Depth	0 - 6	
ISGS Site Number	2732-11	
Parameter		Soil Reference Concentrations <sup>A</sup>
Laboratory pH (standard units)	8.11	<6.25, >9.0
<b>VOCs (ug/kg)</b>	<b>None Detected</b>	
<b>SVOCs (ug/kg)</b>	<b>None Detected</b>	
<b>Total Metals (mg/kg)</b>		
Arsenic, Total	7 J-	11.3/13.0
Barium, Total	36 J	1500
Beryllium, Total	0.64 J	22
Cadmium, Total	0.11 B	5.2
Chromium, Total	17 J	21
Cobalt, Total	11 J	20
Copper, Total	23 J	2900
Iron, Total	17000 J	15000/15900
Lead, Total	13 J	107
Magnesium, Total	32000 J	325000
Manganese, Total	510 J	630/636
Mercury, Total	0.024	0.89
Nickel, Total	31 J	100
Selenium, Total	0.43 J	1.3
<b>TCLP Metals (mg/l)</b>		
Arsenic, TCLP	0.01 J	0.05
Barium, TCLP	0.38 J	2
Beryllium, TCLP	ND	0.004
Cadmium, TCLP	ND	0.005
Chromium, TCLP	ND	0.1
Cobalt, TCLP	0.012 J	1
Copper, TCLP	ND	0.65
Iron, TCLP	ND	5
Lead, TCLP	ND	0.0075
Manganese, TCLP	7	0.15
Mercury, TCLP	ND	0.002
Nickel, TCLP	0.016 J	0.1
Selenium, TCLP	ND	0.05
<b>SPLP Metals (mg/l)</b>		
Arsenic, SPLP	0.028 J	0.05
Barium, SPLP	0.27 J	2
Beryllium, SPLP	ND	0.004
Cadmium, SPLP	ND	0.005
Chromium, SPLP	0.07	0.1
Cobalt, SPLP	0.03	1
Copper, SPLP	0.11	0.65
Iron, SPLP	76	5
Lead, SPLP	0.039	0.0075
Manganese, SPLP	0.82	0.15
Mercury, SPLP	ND	0.002
Nickel, SPLP	0.088	0.1
Selenium, SPLP	ND	0.05

**Notes:**

--- - not applicable or value not available.

<sup>A</sup> - 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: 500-81068-1  
Client Project/Site: IDOT - IL Rt. 132 - WO 046

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

Attn: Mr. S. Babusukumar



Authorized for release by:  
8/6/2014 1:51:19 PM

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

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://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 - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81068-1

**Client Sample ID: R11-1(0-6)-072214**

**Lab Sample ID: 500-81068-10**

**Date Collected: 07/22/14 14:25**

**Matrix: Solid**

**Date Received: 07/23/14 10:00**

**Percent Solids: 83.5**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>14</b>		6.0	2.6	ug/Kg	☼		07/25/14 02:46	1
Benzene	<6.0		6.0	0.82	ug/Kg	☼		07/25/14 02:46	1
Bromodichloromethane	<6.0		6.0	1.0	ug/Kg	☼		07/25/14 02:46	1
Bromoform	<6.0		6.0	1.4	ug/Kg	☼		07/25/14 02:46	1
Bromomethane	<6.0		6.0	1.8	ug/Kg	☼		07/25/14 02:46	1
Carbon disulfide	<6.0		6.0	0.90	ug/Kg	☼		07/25/14 02:46	1
Carbon tetrachloride	<6.0		6.0	1.1	ug/Kg	☼		07/25/14 02:46	1
Chlorobenzene	<6.0		6.0	0.61	ug/Kg	☼		07/25/14 02:46	1
Chloroethane	<6.0		6.0	1.6	ug/Kg	☼		07/25/14 02:46	1
Chloroform	<6.0		6.0	0.69	ug/Kg	☼		07/25/14 02:46	1
Chloromethane	<6.0		6.0	1.3	ug/Kg	☼		07/25/14 02:46	1
cis-1,2-Dichloroethene	<6.0		6.0	0.85	ug/Kg	☼		07/25/14 02:46	1
cis-1,3-Dichloropropene	<6.0		6.0	0.79	ug/Kg	☼		07/25/14 02:46	1
Dibromochloromethane	<6.0		6.0	1.0	ug/Kg	☼		07/25/14 02:46	1
1,1-Dichloroethane	<6.0		6.0	0.95	ug/Kg	☼		07/25/14 02:46	1
1,2-Dichloroethane	<6.0		6.0	0.89	ug/Kg	☼		07/25/14 02:46	1
1,1-Dichloroethene	<6.0		6.0	0.97	ug/Kg	☼		07/25/14 02:46	1
1,2-Dichloropropane	<6.0		6.0	0.91	ug/Kg	☼		07/25/14 02:46	1
1,3-Dichloropropene, Total	<6.0		6.0	0.79	ug/Kg	☼		07/25/14 02:46	1
Ethylbenzene	<6.0		6.0	1.2	ug/Kg	☼		07/25/14 02:46	1
2-Hexanone	<6.0		6.0	1.7	ug/Kg	☼		07/25/14 02:46	1
Methylene Chloride	<6.0		6.0	1.6	ug/Kg	☼		07/25/14 02:46	1
<b>Methyl Ethyl Ketone</b>	<b>3.4 J</b>		6.0	2.2	ug/Kg	☼		07/25/14 02:46	1
methyl isobutyl ketone	<6.0		6.0	1.6	ug/Kg	☼		07/25/14 02:46	1
Methyl tert-butyl ether	<6.0		6.0	0.99	ug/Kg	☼		07/25/14 02:46	1
Styrene	<6.0		6.0	0.79	ug/Kg	☼		07/25/14 02:46	1
1,1,2,2-Tetrachloroethane	<6.0		6.0	1.2	ug/Kg	☼		07/25/14 02:46	1
Tetrachloroethene	<6.0		6.0	0.92	ug/Kg	☼		07/25/14 02:46	1
Toluene	<6.0		6.0	0.84	ug/Kg	☼		07/25/14 02:46	1
trans-1,2-Dichloroethene	<6.0		6.0	0.82	ug/Kg	☼		07/25/14 02:46	1
trans-1,3-Dichloropropene	<6.0		6.0	1.1	ug/Kg	☼		07/25/14 02:46	1
1,1,1-Trichloroethane	<6.0		6.0	0.90	ug/Kg	☼		07/25/14 02:46	1
1,1,2-Trichloroethane	<6.0		6.0	0.82	ug/Kg	☼		07/25/14 02:46	1
Trichloroethene	<6.0		6.0	0.99	ug/Kg	☼		07/25/14 02:46	1
Vinyl chloride	<6.0		6.0	1.3	ug/Kg	☼		07/25/14 02:46	1
Xylenes, Total	<12		12	0.54	ug/Kg	☼		07/25/14 02:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122		07/25/14 02:46	1
Dibromofluoromethane	106		75 - 120		07/25/14 02:46	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134		07/25/14 02:46	1
Toluene-d8 (Surr)	104		75 - 122		07/25/14 02:46	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	☼	08/05/14 14:18	08/06/14 02:48	1
1,2-Dichlorobenzene	<200		200	47	ug/Kg	☼	08/05/14 14:18	08/06/14 02:48	1
1,3-Dichlorobenzene	<200		200	44	ug/Kg	☼	08/05/14 14:18	08/06/14 02:48	1
1,4-Dichlorobenzene	<200		200	50	ug/Kg	☼	08/05/14 14:18	08/06/14 02:48	1
2,2'-oxybis[1-chloropropane]	<200		200	45	ug/Kg	☼	08/05/14 14:18	08/06/14 02:48	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81068-1

**Client Sample ID: R11-1(0-6)-072214**

**Lab Sample ID: 500-81068-10**

**Date Collected: 07/22/14 14:25**

**Matrix: Solid**

**Date Received: 07/23/14 10:00**

**Percent Solids: 83.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<390		390	89	ug/Kg	☼	08/05/14 14:18	08/06/14 02:48	1
2,4,6-Trichlorophenol	<390		390	130	ug/Kg	☼	08/05/14 14:18	08/06/14 02:48	1
2,4-Dichlorophenol	<390		390	92	ug/Kg	☼	08/05/14 14:18	08/06/14 02:48	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	08/05/14 14:18	08/06/14 02:48	1
2,4-Dinitrophenol	<790		790	690	ug/Kg	☼	08/05/14 14:18	08/06/14 02:48	1
2,4-Dinitrotoluene	<200		200	62	ug/Kg	☼	08/05/14 14:18	08/06/14 02:48	1
2,6-Dinitrotoluene	<200		200	77	ug/Kg	☼	08/05/14 14:18	08/06/14 02:48	1
2-Chloronaphthalene	<200		200	43	ug/Kg	☼	08/05/14 14:18	08/06/14 02:48	1
2-Chlorophenol	<200		200	66	ug/Kg	☼	08/05/14 14:18	08/06/14 02:48	1
2-Methylnaphthalene	<39		39	7.2	ug/Kg	☼	08/05/14 14:18	08/06/14 02:48	1
2-Methylphenol	<200		200	62	ug/Kg	☼	08/05/14 14:18	08/06/14 02:48	1
2-Nitroaniline	<200		200	52	ug/Kg	☼	08/05/14 14:18	08/06/14 02:48	1
2-Nitrophenol	<390		390	92	ug/Kg	☼	08/05/14 14:18	08/06/14 02:48	1
3 & 4 Methylphenol	<200		200	65	ug/Kg	☼	08/05/14 14:18	08/06/14 02:48	1
3,3'-Dichlorobenzidine	<200		200	54	ug/Kg	☼	08/05/14 14:18	08/06/14 02:48	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	08/05/14 14:18	08/06/14 02:48	1
4,6-Dinitro-2-methylphenol	<390		390	310	ug/Kg	☼	08/05/14 14:18	08/06/14 02:48	1
4-Bromophenyl phenyl ether	<200		200	51	ug/Kg	☼	08/05/14 14:18	08/06/14 02:48	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	08/05/14 14:18	08/06/14 02:48	1
4-Chloroaniline	<790		790	180	ug/Kg	☼	08/05/14 14:18	08/06/14 02:48	1
4-Chlorophenyl phenyl ether	<200		200	45	ug/Kg	☼	08/05/14 14:18	08/06/14 02:48	1
4-Nitroaniline	<390		390	160	ug/Kg	☼	08/05/14 14:18	08/06/14 02:48	1
4-Nitrophenol	<790		790	370	ug/Kg	☼	08/05/14 14:18	08/06/14 02:48	1
Acenaphthene	<39		39	7.0	ug/Kg	☼	08/05/14 14:18	08/06/14 02:48	1
Acenaphthylene	<39		39	5.1	ug/Kg	☼	08/05/14 14:18	08/06/14 02:48	1
Anthracene	<39		39	6.5	ug/Kg	☼	08/05/14 14:18	08/06/14 02:48	1
Benzo[a]anthracene	<39		39	5.2	ug/Kg	☼	08/05/14 14:18	08/06/14 02:48	1
Benzo[a]pyrene	<39		39	7.5	ug/Kg	☼	08/05/14 14:18	08/06/14 02:48	1
Benzo[b]fluoranthene	<39		39	8.4	ug/Kg	☼	08/05/14 14:18	08/06/14 02:48	1
Benzo[g,h,i]perylene	<39		39	13	ug/Kg	☼	08/05/14 14:18	08/06/14 02:48	1
Benzo[k]fluoranthene	<39		39	11	ug/Kg	☼	08/05/14 14:18	08/06/14 02:48	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	☼	08/05/14 14:18	08/06/14 02:48	1
Bis(2-chloroethyl)ether	<200		200	58	ug/Kg	☼	08/05/14 14:18	08/06/14 02:48	1
Bis(2-ethylhexyl) phthalate	<200		200	71	ug/Kg	☼	08/05/14 14:18	08/06/14 02:48	1
Butyl benzyl phthalate	<200		200	74	ug/Kg	☼	08/05/14 14:18	08/06/14 02:48	1
Carbazole	<200		200	100	ug/Kg	☼	08/05/14 14:18	08/06/14 02:48	1
Chrysene	<39		39	11	ug/Kg	☼	08/05/14 14:18	08/06/14 02:48	1
Dibenz(a,h)anthracene	<39		39	7.5	ug/Kg	☼	08/05/14 14:18	08/06/14 02:48	1
Dibenzofuran	<200		200	46	ug/Kg	☼	08/05/14 14:18	08/06/14 02:48	1
Diethyl phthalate	<200		200	66	ug/Kg	☼	08/05/14 14:18	08/06/14 02:48	1
Dimethyl phthalate	<200		200	51	ug/Kg	☼	08/05/14 14:18	08/06/14 02:48	1
Di-n-butyl phthalate	<200		200	59	ug/Kg	☼	08/05/14 14:18	08/06/14 02:48	1
Di-n-octyl phthalate	<200		200	64	ug/Kg	☼	08/05/14 14:18	08/06/14 02:48	1
Fluoranthene	<39		39	7.2	ug/Kg	☼	08/05/14 14:18	08/06/14 02:48	1
Fluorene	<39		39	5.5	ug/Kg	☼	08/05/14 14:18	08/06/14 02:48	1
Hexachlorobenzene	<79		79	9.0	ug/Kg	☼	08/05/14 14:18	08/06/14 02:48	1
Hexachlorobutadiene	<200		200	61	ug/Kg	☼	08/05/14 14:18	08/06/14 02:48	1
Hexachlorocyclopentadiene	<790		790	220	ug/Kg	☼	08/05/14 14:18	08/06/14 02:48	1
Hexachloroethane	<200		200	59	ug/Kg	☼	08/05/14 14:18	08/06/14 02:48	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81068-1

**Client Sample ID: R11-1(0-6)-072214**

**Lab Sample ID: 500-81068-10**

**Date Collected: 07/22/14 14:25**

**Matrix: Solid**

**Date Received: 07/23/14 10:00**

**Percent Solids: 83.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<39		39	10	ug/Kg	☼	08/05/14 14:18	08/06/14 02:48	1
Isophorone	<200		200	44	ug/Kg	☼	08/05/14 14:18	08/06/14 02:48	1
Naphthalene	<39		39	6.0	ug/Kg	☼	08/05/14 14:18	08/06/14 02:48	1
Nitrobenzene	<39		39	9.7	ug/Kg	☼	08/05/14 14:18	08/06/14 02:48	1
N-Nitrosodi-n-propylamine	<200		200	48	ug/Kg	☼	08/05/14 14:18	08/06/14 02:48	1
N-Nitrosodiphenylamine	<200		200	46	ug/Kg	☼	08/05/14 14:18	08/06/14 02:48	1
Pentachlorophenol	<790		790	620	ug/Kg	☼	08/05/14 14:18	08/06/14 02:48	1
Phenanthrene	<39		39	5.4	ug/Kg	☼	08/05/14 14:18	08/06/14 02:48	1
Phenol	<200		200	86	ug/Kg	☼	08/05/14 14:18	08/06/14 02:48	1
Pyrene	<39		39	7.7	ug/Kg	☼	08/05/14 14:18	08/06/14 02:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	59		35 - 137				08/05/14 14:18	08/06/14 02:48	1
2-Fluorobiphenyl	45		25 - 119				08/05/14 14:18	08/06/14 02:48	1
2-Fluorophenol	46		25 - 110				08/05/14 14:18	08/06/14 02:48	1
Nitrobenzene-d5	42		25 - 115				08/05/14 14:18	08/06/14 02:48	1
Phenol-d5	48		31 - 110				08/05/14 14:18	08/06/14 02:48	1
Terphenyl-d14	62		36 - 134				08/05/14 14:18	08/06/14 02:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.010</b>	<b>J</b>	0.050	0.010	mg/L		08/01/14 09:00	08/01/14 21:46	1
<b>Barium</b>	<b>0.38</b>	<b>J</b>	0.50	0.050	mg/L		08/01/14 09:00	08/01/14 21:46	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/01/14 09:00	08/01/14 21:46	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/01/14 09:00	08/01/14 21:46	1
Chromium	<0.025		0.025	0.010	mg/L		08/01/14 09:00	08/01/14 21:46	1
<b>Cobalt</b>	<b>0.012</b>	<b>J</b>	0.025	0.010	mg/L		08/01/14 09:00	08/01/14 21:46	1
Copper	<0.025		0.025	0.010	mg/L		08/01/14 09:00	08/01/14 21:46	1
Iron	<0.20		0.20	0.20	mg/L		08/01/14 09:00	08/01/14 21:46	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/01/14 09:00	08/01/14 21:46	1
<b>Manganese</b>	<b>7.0</b>		0.025	0.010	mg/L		08/01/14 09:00	08/01/14 21:46	1
<b>Nickel</b>	<b>0.016</b>	<b>J</b>	0.025	0.010	mg/L		08/01/14 09:00	08/01/14 21:46	1
<b>Selenium</b>	<b>0.026</b>	<b>J B</b>	0.050	0.010	mg/L		08/01/14 09:00	08/01/14 21:46	1
Silver	<0.025		0.025	0.010	mg/L		08/01/14 09:00	08/01/14 21:46	1
Zinc	<0.10		0.10	0.020	mg/L		08/01/14 09:00	08/01/14 21:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.028</b>	<b>J</b>	0.050	0.010	mg/L		07/30/14 09:15	07/31/14 00:55	1
<b>Barium</b>	<b>0.27</b>	<b>J</b>	0.50	0.050	mg/L		07/30/14 09:15	07/31/14 00:55	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/30/14 09:15	07/31/14 00:55	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/30/14 09:15	07/31/14 00:55	1
<b>Chromium</b>	<b>0.070</b>		0.025	0.010	mg/L		07/30/14 09:15	07/31/14 00:55	1
<b>Cobalt</b>	<b>0.030</b>		0.025	0.010	mg/L		07/30/14 09:15	07/31/14 00:55	1
<b>Copper</b>	<b>0.11</b>		0.025	0.010	mg/L		07/30/14 09:15	07/31/14 00:55	1
<b>Iron</b>	<b>76</b>		0.20	0.20	mg/L		07/30/14 09:15	07/31/14 00:55	1
<b>Lead</b>	<b>0.039</b>		0.0075	0.0075	mg/L		07/30/14 09:15	07/31/14 00:55	1
<b>Manganese</b>	<b>0.82</b>		0.025	0.010	mg/L		07/30/14 09:15	07/31/14 00:55	1
<b>Nickel</b>	<b>0.088</b>		0.025	0.010	mg/L		07/30/14 09:15	07/31/14 00:55	1
Selenium	<0.050		0.050	0.010	mg/L		07/30/14 09:15	07/31/14 00:55	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81068-1

**Client Sample ID: R11-1(0-6)-072214**

**Lab Sample ID: 500-81068-10**

Date Collected: 07/22/14 14:25

Matrix: Solid

Date Received: 07/23/14 10:00

**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		07/30/14 09:15	07/31/14 00:55	1
<b>Zinc</b>	<b>0.20</b>		0.10	0.020	mg/L		07/30/14 09:15	07/31/14 00:55	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.45	mg/Kg	☼	07/30/14 16:30	07/31/14 22:40	1
<b>Arsenic</b>	<b>7.0</b>		0.56	0.11	mg/Kg	☼	07/30/14 16:30	07/31/14 22:40	1
<b>Barium</b>	<b>36</b>		0.56	0.060	mg/Kg	☼	07/30/14 16:30	07/31/14 22:40	1
<b>Beryllium</b>	<b>0.64</b>		0.22	0.045	mg/Kg	☼	07/30/14 16:30	07/31/14 22:40	1
<b>Cadmium</b>	<b>0.11</b>	<b>B</b>	0.11	0.014	mg/Kg	☼	07/30/14 16:30	07/31/14 22:40	1
<b>Calcium</b>	<b>87000</b>	<b>B</b>	110	30	mg/Kg	☼	07/30/14 16:30	08/01/14 18:18	10
<b>Chromium</b>	<b>17</b>	<b>B</b>	0.56	0.065	mg/Kg	☼	07/30/14 16:30	07/31/14 22:40	1
<b>Cobalt</b>	<b>11</b>		0.28	0.056	mg/Kg	☼	07/30/14 16:30	08/01/14 18:04	1
<b>Copper</b>	<b>23</b>		0.56	0.11	mg/Kg	☼	07/30/14 16:30	07/31/14 22:40	1
<b>Iron</b>	<b>17000</b>		11	4.6	mg/Kg	☼	07/30/14 16:30	07/31/14 22:40	1
<b>Lead</b>	<b>13</b>		0.28	0.083	mg/Kg	☼	07/30/14 16:30	07/31/14 22:40	1
<b>Magnesium</b>	<b>32000</b>	<b>B</b>	5.6	1.1	mg/Kg	☼	07/30/14 16:30	07/31/14 22:40	1
<b>Manganese</b>	<b>510</b>	<b>B</b>	0.56	0.11	mg/Kg	☼	07/30/14 16:30	07/31/14 22:40	1
<b>Nickel</b>	<b>31</b>		0.56	0.11	mg/Kg	☼	07/30/14 16:30	07/31/14 22:40	1
<b>Potassium</b>	<b>2100</b>		28	1.7	mg/Kg	☼	07/30/14 16:30	07/31/14 22:40	1
<b>Selenium</b>	<b>0.43</b>	<b>J</b>	0.56	0.20	mg/Kg	☼	07/30/14 16:30	07/31/14 22:40	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	07/30/14 16:30	07/31/14 22:40	1
<b>Sodium</b>	<b>840</b>	<b>B</b>	56	7.5	mg/Kg	☼	07/30/14 16:30	08/01/14 18:04	1
Thallium	<0.56		0.56	0.24	mg/Kg	☼	07/30/14 16:30	07/31/14 22:40	1
<b>Vanadium</b>	<b>19</b>		0.28	0.041	mg/Kg	☼	07/30/14 16:30	07/31/14 22:40	1
<b>Zinc</b>	<b>60</b>		1.1	0.23	mg/Kg	☼	07/30/14 16:30	07/31/14 22:40	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		08/01/14 13:11	08/04/14 14:16	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		07/30/14 12:00	07/31/14 09:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>24</b>		18	7.0	ug/Kg	☼	07/30/14 12:00	07/31/14 08:48	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.11</b>		0.200	0.200	SU			07/30/14 13:51	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81068-1

## 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
F2	MS/MSD RPD exceeds control limits

### Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F3	Duplicate RPD exceeds the control limit
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.
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 - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81068-1

## 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



500-81068 COC

Report To (optional)  
Contact: S. Babusankumar  
Company: Weston Solutions Inc.  
Address: 300 Plaza Circle, Ste 202  
Address: Mundelein, IL 60061  
Phone: 847 224-864-7250  
Fax: 224-864-7238  
E-Mail:

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

## Chain of Custody Record

Lab Job #: 500-81068  
Chain of Custody Number:  
Page 3 of 4  
Temperature °C of Cooler: 3.2

Client		Client Project #		Preservative		Parameter		Total Metals		TELP/SPLP Metals		PH		Preservative Key	
<u>Weston</u>														1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		# of Containers	Matrix	VOCs	S-VOCs	Total Metals	TELP/SPLP Metals	PH	Comments				
<u>IDOT-046</u>															
Project Location/State		Lab Project #		Sampling											
<u>Lake County / IL</u>				Date	Time										
Sampler		Lab PM													
<u>T. Walls</u>		<u>D. Wright</u>													
1	MS/MSD	Sample ID													
		<u>CP-8(0-4)-072214</u>	<u>7-22-14</u>	<u>1230</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>				
2		<u>LV-1(0-3)-072214</u>		<u>1240</u>											
3		<u>LV-2(0-3)-072214</u>		<u>1250</u>											
4		<u>LV-2(0-3)-072214D</u>		<u>1250</u>											
5		<u>TP-2(0-4)-072214</u>		<u>1315</u>											
6		<u>TP-1(0-4)-072214</u>		<u>1330</u>											
7		<u>R8-1(0-4)-072214</u>		<u>1345</u>											
8		<u>W-1(0-6)-072214</u>		<u>1400</u>											
9		<u>W-2(0-6)-072214</u>		<u>1410</u>											
10		<u>R11-1(0-6)-072214</u>	<u>7-22-14</u>	<u>1425</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>				

Turnaround Time Required (Business Days)

1 Day  2 Days  5 Days  7 Days  10 Days  15 Days  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>Jamethy A. White</u> Company: <u>Weston</u> Date: <u>7-22-14</u> Time: <u>1545</u>	Received By <u>JA</u> Company: <u>JA</u> Date: <u>7/22/14</u> Time: <u>1545</u>
Relinquished By <u>JA</u> Company: <u>JA</u> Date: <u>7/22/14</u> Time: <u>955</u>	Received By <u>JA</u> Company: <u>JA</u> Date: <u>7/23/14</u> Time: <u>0835</u>
Relinquished By <u>JA</u> Company: <u>JA</u> Date: <u>7/23/14</u> Time: <u>1000</u>	Received By <u>JA</u> Company: <u>JA</u> Date: <u>7/23/14</u> Time: <u>1000</u>

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:



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 541 (Grand Ave) at Fairfield Rd Office Phone Number, if available: \_\_\_\_\_

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

24179 W. Grand Ave

City: Lake Villa 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: 42.415412778 Longitude: -88.105520917

(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 541 (Grand Ave) at Fairfield Rd

Latitude: 42.415412778 Longitude: -88.105520917

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 R12-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2732-12. 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: 500-81068-1

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

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

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

Company Name: Illinois Department of Transportation

Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

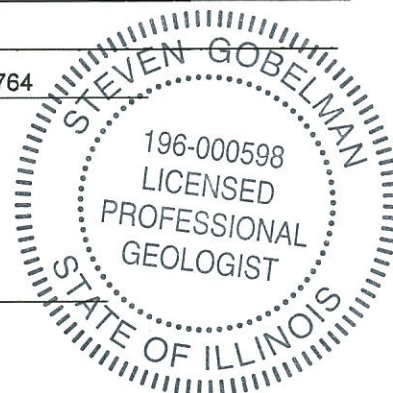
Phone: 217-785-4246

Steven Gobelman, P.E., L.P.G.

Printed Name:

  
 Licensed Professional Engineer or  
 Licensed Professional Geologist Signature:

2/25/15  
 Date:



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

**Summary Table of ISGS Site No. 2732-12**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAP 541 (IL Route 132; Grand Avenue) at Fairfield Road**  
**Unincorporated Lake County, Illinois**

Field Sample ID	R12-1(0-4)-072214	<b>Soil Reference Concentrations<sup>A</sup></b>
Sample Date	7/22/2014	
Location ID	R12-1	
Depth	0 - 4	
ISGS Site Number	2732-12	
Parameter		
Laboratory pH (standard units)	7.55	<6.25, >9.0
<b>VOCs (ug/kg)</b>	<b>None Detected</b>	
<b>SVOCs (ug/kg)</b>	<b>None Detected</b>	
<b>Total Metals (mg/kg)</b>		
Arsenic, Total	5.2 J-	11.3/13.0
Barium, Total	70 J	1500
Beryllium, Total	0.72 J	22
Cadmium, Total	0.44 B	5.2
Chromium, Total	19 J	21
Cobalt, Total	10 J	20
Copper, Total	24 J	2900
Iron, Total	17000 J	15000/15900
Lead, Total	18 J	107
Magnesium, Total	6200 J	325000
Manganese, Total	280 J	630/636
Mercury, Total	0.056	0.89
Nickel, Total	26 J	100
Selenium, Total	0.28 J	1.3
<b>TCLP Metals (mg/l)</b>		
Arsenic, TCLP	ND	0.05
Barium, TCLP	0.46 J	2
Beryllium, TCLP	ND	0.004
Cadmium, TCLP	ND	0.005
Chromium, TCLP	ND	0.1
Cobalt, TCLP	0.027	1
Copper, TCLP	0.05	0.65
Iron, TCLP	0.21	5
Lead, TCLP	ND	0.0075
Manganese, TCLP	7.3	0.15
Mercury, TCLP	ND	0.002
Nickel, TCLP	0.021 J	0.1
Selenium, TCLP	ND	0.05
<b>SPLP Metals (mg/l)</b>		
Arsenic, SPLP	0.043 J	0.05
Barium, SPLP	0.65	2
Beryllium, SPLP	0.006	0.004
Cadmium, SPLP	0.0032 J	0.005
Chromium, SPLP	0.15	0.1
Cobalt, SPLP	0.054	1
Copper, SPLP	0.21	0.65
Iron, SPLP	150	5
Lead, SPLP	0.11	0.0075
Manganese, SPLP	1.7	0.15
Mercury, SPLP	0.0002	0.002
Nickel, SPLP	0.15	0.1
Selenium, SPLP	ND	0.05

**Notes:**

--- - not applicable or value not available.

<sup>A</sup> - 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: 500-81068-1

Client Project/Site: IDOT - IL Rt. 132 - WO 046

For:

Weston Solutions, Inc.

300 Plaza Circle, Suite 202

Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar



Authorized for release by:

8/6/2014 1:51:19 PM

Richard Wright, Senior Project Manager

(708)534-5200

[richard.wright@testamericainc.com](mailto:richard.wright@testamericainc.com)

### LINKS

Review your project  
results through

TotalAccess

Have a Question?



Visit us at:

[www.testamericainc.com](http://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 - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81068-1

**Client Sample ID: R12-1(0-4)-072214**

**Lab Sample ID: 500-81068-11**

**Date Collected: 07/22/14 14:35**

**Matrix: Solid**

**Date Received: 07/23/14 10:00**

**Percent Solids: 78.3**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>17</b>		6.4	2.8	ug/Kg	☼		07/25/14 03:10	1
Benzene	<6.4		6.4	0.87	ug/Kg	☼		07/25/14 03:10	1
Bromodichloromethane	<6.4		6.4	1.1	ug/Kg	☼		07/25/14 03:10	1
Bromoform	<6.4		6.4	1.5	ug/Kg	☼		07/25/14 03:10	1
Bromomethane	<6.4		6.4	1.9	ug/Kg	☼		07/25/14 03:10	1
Carbon disulfide	<6.4		6.4	0.95	ug/Kg	☼		07/25/14 03:10	1
Carbon tetrachloride	<6.4		6.4	1.2	ug/Kg	☼		07/25/14 03:10	1
Chlorobenzene	<6.4		6.4	0.65	ug/Kg	☼		07/25/14 03:10	1
Chloroethane	<6.4		6.4	1.7	ug/Kg	☼		07/25/14 03:10	1
Chloroform	<6.4		6.4	0.73	ug/Kg	☼		07/25/14 03:10	1
Chloromethane	<6.4		6.4	1.3	ug/Kg	☼		07/25/14 03:10	1
cis-1,2-Dichloroethene	<6.4		6.4	0.90	ug/Kg	☼		07/25/14 03:10	1
cis-1,3-Dichloropropene	<6.4		6.4	0.84	ug/Kg	☼		07/25/14 03:10	1
Dibromochloromethane	<6.4		6.4	1.1	ug/Kg	☼		07/25/14 03:10	1
1,1-Dichloroethane	<6.4		6.4	1.0	ug/Kg	☼		07/25/14 03:10	1
1,2-Dichloroethane	<6.4		6.4	0.95	ug/Kg	☼		07/25/14 03:10	1
1,1-Dichloroethene	<6.4		6.4	1.0	ug/Kg	☼		07/25/14 03:10	1
1,2-Dichloropropane	<6.4		6.4	0.97	ug/Kg	☼		07/25/14 03:10	1
1,3-Dichloropropene, Total	<6.4		6.4	0.84	ug/Kg	☼		07/25/14 03:10	1
Ethylbenzene	<6.4		6.4	1.3	ug/Kg	☼		07/25/14 03:10	1
2-Hexanone	<6.4		6.4	1.8	ug/Kg	☼		07/25/14 03:10	1
Methylene Chloride	<6.4		6.4	1.7	ug/Kg	☼		07/25/14 03:10	1
<b>Methyl Ethyl Ketone</b>	<b>4.0 J</b>		6.4	2.3	ug/Kg	☼		07/25/14 03:10	1
methyl isobutyl ketone	<6.4		6.4	1.7	ug/Kg	☼		07/25/14 03:10	1
Methyl tert-butyl ether	<6.4		6.4	1.1	ug/Kg	☼		07/25/14 03:10	1
Styrene	<6.4		6.4	0.84	ug/Kg	☼		07/25/14 03:10	1
1,1,2,2-Tetrachloroethane	<6.4		6.4	1.3	ug/Kg	☼		07/25/14 03:10	1
Tetrachloroethene	<6.4		6.4	0.98	ug/Kg	☼		07/25/14 03:10	1
Toluene	<6.4		6.4	0.89	ug/Kg	☼		07/25/14 03:10	1
trans-1,2-Dichloroethene	<6.4		6.4	0.88	ug/Kg	☼		07/25/14 03:10	1
trans-1,3-Dichloropropene	<6.4		6.4	1.1	ug/Kg	☼		07/25/14 03:10	1
1,1,1-Trichloroethane	<6.4		6.4	0.95	ug/Kg	☼		07/25/14 03:10	1
1,1,2-Trichloroethane	<6.4		6.4	0.87	ug/Kg	☼		07/25/14 03:10	1
Trichloroethene	<6.4		6.4	1.1	ug/Kg	☼		07/25/14 03:10	1
Vinyl chloride	<6.4		6.4	1.3	ug/Kg	☼		07/25/14 03:10	1
Xylenes, Total	<13		13	0.58	ug/Kg	☼		07/25/14 03:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 122		07/25/14 03:10	1
Dibromofluoromethane	113		75 - 120		07/25/14 03:10	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134		07/25/14 03:10	1
Toluene-d8 (Surr)	101		75 - 122		07/25/14 03:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<210		210	44	ug/Kg	☼	08/05/14 14:18	08/06/14 03:09	1
1,2-Dichlorobenzene	<210		210	49	ug/Kg	☼	08/05/14 14:18	08/06/14 03:09	1
1,3-Dichlorobenzene	<210		210	46	ug/Kg	☼	08/05/14 14:18	08/06/14 03:09	1
1,4-Dichlorobenzene	<210		210	52	ug/Kg	☼	08/05/14 14:18	08/06/14 03:09	1
2,2'-oxybis[1-chloropropane]	<210		210	47	ug/Kg	☼	08/05/14 14:18	08/06/14 03:09	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81068-1

**Client Sample ID: R12-1(0-4)-072214**

**Lab Sample ID: 500-81068-11**

**Date Collected: 07/22/14 14:35**

**Matrix: Solid**

**Date Received: 07/23/14 10:00**

**Percent Solids: 78.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<410		410	93	ug/Kg	☼	08/05/14 14:18	08/06/14 03:09	1
2,4,6-Trichlorophenol	<410		410	140	ug/Kg	☼	08/05/14 14:18	08/06/14 03:09	1
2,4-Dichlorophenol	<410		410	97	ug/Kg	☼	08/05/14 14:18	08/06/14 03:09	1
2,4-Dimethylphenol	<410		410	150	ug/Kg	☼	08/05/14 14:18	08/06/14 03:09	1
2,4-Dinitrophenol	<820		820	720	ug/Kg	☼	08/05/14 14:18	08/06/14 03:09	1
2,4-Dinitrotoluene	<210		210	65	ug/Kg	☼	08/05/14 14:18	08/06/14 03:09	1
2,6-Dinitrotoluene	<210		210	80	ug/Kg	☼	08/05/14 14:18	08/06/14 03:09	1
2-Chloronaphthalene	<210		210	45	ug/Kg	☼	08/05/14 14:18	08/06/14 03:09	1
2-Chlorophenol	<210		210	70	ug/Kg	☼	08/05/14 14:18	08/06/14 03:09	1
2-Methylnaphthalene	<41		41	7.5	ug/Kg	☼	08/05/14 14:18	08/06/14 03:09	1
2-Methylphenol	<210		210	66	ug/Kg	☼	08/05/14 14:18	08/06/14 03:09	1
2-Nitroaniline	<210		210	55	ug/Kg	☼	08/05/14 14:18	08/06/14 03:09	1
2-Nitrophenol	<410		410	97	ug/Kg	☼	08/05/14 14:18	08/06/14 03:09	1
3 & 4 Methylphenol	<210		210	68	ug/Kg	☼	08/05/14 14:18	08/06/14 03:09	1
3,3'-Dichlorobenzidine	<210		210	57	ug/Kg	☼	08/05/14 14:18	08/06/14 03:09	1
3-Nitroaniline	<410		410	130	ug/Kg	☼	08/05/14 14:18	08/06/14 03:09	1
4,6-Dinitro-2-methylphenol	<410		410	330	ug/Kg	☼	08/05/14 14:18	08/06/14 03:09	1
4-Bromophenyl phenyl ether	<210		210	54	ug/Kg	☼	08/05/14 14:18	08/06/14 03:09	1
4-Chloro-3-methylphenol	<410		410	140	ug/Kg	☼	08/05/14 14:18	08/06/14 03:09	1
4-Chloroaniline	<820		820	190	ug/Kg	☼	08/05/14 14:18	08/06/14 03:09	1
4-Chlorophenyl phenyl ether	<210		210	48	ug/Kg	☼	08/05/14 14:18	08/06/14 03:09	1
4-Nitroaniline	<410		410	170	ug/Kg	☼	08/05/14 14:18	08/06/14 03:09	1
4-Nitrophenol	<820		820	390	ug/Kg	☼	08/05/14 14:18	08/06/14 03:09	1
Acenaphthene	<41		41	7.3	ug/Kg	☼	08/05/14 14:18	08/06/14 03:09	1
Acenaphthylene	<41		41	5.4	ug/Kg	☼	08/05/14 14:18	08/06/14 03:09	1
Anthracene	<41		41	6.8	ug/Kg	☼	08/05/14 14:18	08/06/14 03:09	1
Benzo[a]anthracene	<41		41	5.5	ug/Kg	☼	08/05/14 14:18	08/06/14 03:09	1
Benzo[a]pyrene	<41		41	7.9	ug/Kg	☼	08/05/14 14:18	08/06/14 03:09	1
Benzo[b]fluoranthene	<41		41	8.8	ug/Kg	☼	08/05/14 14:18	08/06/14 03:09	1
Benzo[g,h,i]perylene	<41		41	13	ug/Kg	☼	08/05/14 14:18	08/06/14 03:09	1
Benzo[k]fluoranthene	<41		41	12	ug/Kg	☼	08/05/14 14:18	08/06/14 03:09	1
Bis(2-chloroethoxy)methane	<210		210	42	ug/Kg	☼	08/05/14 14:18	08/06/14 03:09	1
Bis(2-chloroethyl)ether	<210		210	61	ug/Kg	☼	08/05/14 14:18	08/06/14 03:09	1
Bis(2-ethylhexyl) phthalate	<210		210	75	ug/Kg	☼	08/05/14 14:18	08/06/14 03:09	1
Butyl benzyl phthalate	<210		210	78	ug/Kg	☼	08/05/14 14:18	08/06/14 03:09	1
Carbazole	<210		210	110	ug/Kg	☼	08/05/14 14:18	08/06/14 03:09	1
Chrysene	<41		41	11	ug/Kg	☼	08/05/14 14:18	08/06/14 03:09	1
Dibenz(a,h)anthracene	<41		41	7.9	ug/Kg	☼	08/05/14 14:18	08/06/14 03:09	1
Dibenzofuran	<210		210	48	ug/Kg	☼	08/05/14 14:18	08/06/14 03:09	1
Diethyl phthalate	<210		210	69	ug/Kg	☼	08/05/14 14:18	08/06/14 03:09	1
Dimethyl phthalate	<210		210	53	ug/Kg	☼	08/05/14 14:18	08/06/14 03:09	1
Di-n-butyl phthalate	<210		210	62	ug/Kg	☼	08/05/14 14:18	08/06/14 03:09	1
Di-n-octyl phthalate	<210		210	67	ug/Kg	☼	08/05/14 14:18	08/06/14 03:09	1
Fluoranthene	<41		41	7.6	ug/Kg	☼	08/05/14 14:18	08/06/14 03:09	1
Fluorene	<41		41	5.7	ug/Kg	☼	08/05/14 14:18	08/06/14 03:09	1
Hexachlorobenzene	<82		82	9.5	ug/Kg	☼	08/05/14 14:18	08/06/14 03:09	1
Hexachlorobutadiene	<210		210	64	ug/Kg	☼	08/05/14 14:18	08/06/14 03:09	1
Hexachlorocyclopentadiene	<820		820	230	ug/Kg	☼	08/05/14 14:18	08/06/14 03:09	1
Hexachloroethane	<210		210	62	ug/Kg	☼	08/05/14 14:18	08/06/14 03:09	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81068-1

**Client Sample ID: R12-1(0-4)-072214**

**Lab Sample ID: 500-81068-11**

**Date Collected: 07/22/14 14:35**

**Matrix: Solid**

**Date Received: 07/23/14 10:00**

**Percent Solids: 78.3**

**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	<41		41	11	ug/Kg	☼	08/05/14 14:18	08/06/14 03:09	1
Isophorone	<210		210	46	ug/Kg	☼	08/05/14 14:18	08/06/14 03:09	1
Naphthalene	<41		41	6.3	ug/Kg	☼	08/05/14 14:18	08/06/14 03:09	1
Nitrobenzene	<41		41	10	ug/Kg	☼	08/05/14 14:18	08/06/14 03:09	1
N-Nitrosodi-n-propylamine	<210		210	50	ug/Kg	☼	08/05/14 14:18	08/06/14 03:09	1
N-Nitrosodiphenylamine	<210		210	48	ug/Kg	☼	08/05/14 14:18	08/06/14 03:09	1
Pentachlorophenol	<820		820	660	ug/Kg	☼	08/05/14 14:18	08/06/14 03:09	1
Phenanthrene	<41		41	5.7	ug/Kg	☼	08/05/14 14:18	08/06/14 03:09	1
Phenol	<210		210	91	ug/Kg	☼	08/05/14 14:18	08/06/14 03:09	1
Pyrene	<41		41	8.1	ug/Kg	☼	08/05/14 14:18	08/06/14 03:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	57		35 - 137				08/05/14 14:18	08/06/14 03:09	1
2-Fluorobiphenyl	34		25 - 119				08/05/14 14:18	08/06/14 03:09	1
2-Fluorophenol	32		25 - 110				08/05/14 14:18	08/06/14 03:09	1
Nitrobenzene-d5	28		25 - 115				08/05/14 14:18	08/06/14 03:09	1
Phenol-d5	35		31 - 110				08/05/14 14:18	08/06/14 03:09	1
Terphenyl-d14	58		36 - 134				08/05/14 14:18	08/06/14 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		08/01/14 09:00	08/01/14 21:51	1
<b>Barium</b>	<b>0.46</b>	<b>J</b>	0.50	0.050	mg/L		08/01/14 09:00	08/01/14 21:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/01/14 09:00	08/01/14 21:51	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/01/14 09:00	08/01/14 21:51	1
Chromium	<0.025		0.025	0.010	mg/L		08/01/14 09:00	08/01/14 21:51	1
<b>Cobalt</b>	<b>0.027</b>		0.025	0.010	mg/L		08/01/14 09:00	08/01/14 21:51	1
<b>Copper</b>	<b>0.050</b>		0.025	0.010	mg/L		08/01/14 09:00	08/01/14 21:51	1
<b>Iron</b>	<b>0.21</b>		0.20	0.20	mg/L		08/01/14 09:00	08/01/14 21:51	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/01/14 09:00	08/01/14 21:51	1
<b>Manganese</b>	<b>7.3</b>		0.025	0.010	mg/L		08/01/14 09:00	08/01/14 21:51	1
<b>Nickel</b>	<b>0.021</b>	<b>J</b>	0.025	0.010	mg/L		08/01/14 09:00	08/01/14 21:51	1
<b>Selenium</b>	<b>0.026</b>	<b>J B</b>	0.050	0.010	mg/L		08/01/14 09:00	08/01/14 21:51	1
Silver	<0.025		0.025	0.010	mg/L		08/01/14 09:00	08/01/14 21:51	1
<b>Zinc</b>	<b>0.065</b>	<b>J</b>	0.10	0.020	mg/L		08/01/14 09:00	08/01/14 21:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.043</b>	<b>J</b>	0.050	0.010	mg/L		07/30/14 09:15	07/31/14 01:01	1
<b>Barium</b>	<b>0.65</b>		0.50	0.050	mg/L		07/30/14 09:15	07/31/14 01:01	1
<b>Beryllium</b>	<b>0.0060</b>		0.0040	0.0040	mg/L		07/30/14 09:15	07/31/14 01:01	1
<b>Cadmium</b>	<b>0.0032</b>	<b>J</b>	0.0050	0.0020	mg/L		07/30/14 09:15	07/31/14 01:01	1
<b>Chromium</b>	<b>0.15</b>		0.025	0.010	mg/L		07/30/14 09:15	07/31/14 01:01	1
<b>Cobalt</b>	<b>0.054</b>		0.025	0.010	mg/L		07/30/14 09:15	07/31/14 01:01	1
<b>Copper</b>	<b>0.21</b>		0.025	0.010	mg/L		07/30/14 09:15	07/31/14 01:01	1
<b>Iron</b>	<b>150</b>		0.20	0.20	mg/L		07/30/14 09:15	07/31/14 01:01	1
<b>Lead</b>	<b>0.11</b>		0.0075	0.0075	mg/L		07/30/14 09:15	07/31/14 01:01	1
<b>Manganese</b>	<b>1.7</b>		0.025	0.010	mg/L		07/30/14 09:15	07/31/14 01:01	1
<b>Nickel</b>	<b>0.15</b>		0.025	0.010	mg/L		07/30/14 09:15	07/31/14 01:01	1
Selenium	<0.050		0.050	0.010	mg/L		07/30/14 09:15	07/31/14 01:01	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81068-1

**Client Sample ID: R12-1(0-4)-072214**

**Lab Sample ID: 500-81068-11**

Date Collected: 07/22/14 14:35

Matrix: Solid

Date Received: 07/23/14 10:00

**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		07/30/14 09:15	07/31/14 01:01	1
<b>Zinc</b>	<b>0.39</b>		0.10	0.020	mg/L		07/30/14 09:15	07/31/14 01:01	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.3		1.3	0.51	mg/Kg	☼	07/30/14 16:30	07/31/14 22:45	1
<b>Arsenic</b>	<b>5.2</b>		0.63	0.13	mg/Kg	☼	07/30/14 16:30	07/31/14 22:45	1
<b>Barium</b>	<b>70</b>		0.63	0.068	mg/Kg	☼	07/30/14 16:30	07/31/14 22:45	1
<b>Beryllium</b>	<b>0.72</b>		0.25	0.051	mg/Kg	☼	07/30/14 16:30	07/31/14 22:45	1
<b>Cadmium</b>	<b>0.44</b>	<b>B</b>	0.13	0.016	mg/Kg	☼	07/30/14 16:30	07/31/14 22:45	1
<b>Calcium</b>	<b>8000</b>	<b>B</b>	13	3.4	mg/Kg	☼	07/30/14 16:30	08/01/14 18:22	1
<b>Chromium</b>	<b>19</b>	<b>B</b>	0.63	0.073	mg/Kg	☼	07/30/14 16:30	07/31/14 22:45	1
<b>Cobalt</b>	<b>10</b>		0.32	0.063	mg/Kg	☼	07/30/14 16:30	08/01/14 18:22	1
<b>Copper</b>	<b>24</b>		0.63	0.13	mg/Kg	☼	07/30/14 16:30	07/31/14 22:45	1
<b>Iron</b>	<b>17000</b>		13	5.2	mg/Kg	☼	07/30/14 16:30	07/31/14 22:45	1
<b>Lead</b>	<b>18</b>		0.32	0.094	mg/Kg	☼	07/30/14 16:30	07/31/14 22:45	1
<b>Magnesium</b>	<b>6200</b>	<b>B</b>	6.3	1.3	mg/Kg	☼	07/30/14 16:30	07/31/14 22:45	1
<b>Manganese</b>	<b>280</b>	<b>B</b>	0.63	0.13	mg/Kg	☼	07/30/14 16:30	07/31/14 22:45	1
<b>Nickel</b>	<b>26</b>		0.63	0.13	mg/Kg	☼	07/30/14 16:30	07/31/14 22:45	1
<b>Potassium</b>	<b>1300</b>		32	1.9	mg/Kg	☼	07/30/14 16:30	07/31/14 22:45	1
<b>Selenium</b>	<b>0.28</b>	<b>J</b>	0.63	0.22	mg/Kg	☼	07/30/14 16:30	07/31/14 22:45	1
Silver	<0.32		0.32	0.023	mg/Kg	☼	07/30/14 16:30	07/31/14 22:45	1
<b>Sodium</b>	<b>2200</b>	<b>B</b>	63	8.5	mg/Kg	☼	07/30/14 16:30	08/01/14 18:22	1
Thallium	<0.63		0.63	0.27	mg/Kg	☼	07/30/14 16:30	07/31/14 22:45	1
<b>Vanadium</b>	<b>24</b>		0.32	0.047	mg/Kg	☼	07/30/14 16:30	07/31/14 22:45	1
<b>Zinc</b>	<b>86</b>		1.3	0.26	mg/Kg	☼	07/30/14 16:30	07/31/14 22:45	1

**Method: 7470A - Mercury (CVAA) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		08/01/14 13:11	08/04/14 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.20</b>		0.20	0.20	ug/L		07/30/14 12:00	07/31/14 09:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>56</b>		19	7.4	ug/Kg	☼	07/30/14 12:00	07/31/14 08:50	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.55</b>		0.200	0.200	SU			07/30/14 13:54	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81068-1

## 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
F2	MS/MSD RPD exceeds control limits

### Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F3	Duplicate RPD exceeds the control limit
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.
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 - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81068-1

## 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 TESTING

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

Report To (optional)  
Contact: S. Babusankumar  
Company: Weston Solutions Inc.  
Address: 300 Plaza Circle, Ste 202  
Address: Munchehain, FL 60060  
Phone: 224-864-7850  
Fax: 224-864-7236  
E-Mail:

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

## Chain of Custody Record

Lab Job #: 500-81068  
Chain of Custody Number: \_\_\_\_\_  
Page 4 of 4  
Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter		Matrix		Comments	
<u>Weston</u>											
Project Name		Lab Project #		Date		Time		# of Containers		Matrix	
<u>FDOT-046</u>											
Project Location/State		Sampler		Date		Time		# of Containers		Matrix	
<u>Lake County / FL</u>		<u>T. Walker</u>									
Sampler		Lab PM		Date		Time		# of Containers		Matrix	
<u>T. Walker</u>		<u>D. Wright</u>									
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	NOCs	SNOCs	Total Metals	Ten P/SPUP Metals	pH
<u>11</u>		<u>R12-1(0-4)-072214</u>	<u>7-22-14</u>	<u>1435</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>R14-1(0-6)-072214</u>	<u>↓</u>	<u>1445</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>
<u>13</u>		<u>6W-1(0-4)-072214</u>	<u>↓</u>	<u>1510</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>
<u>14</u>		<u>6W-2(0-4)-072214</u>	<u>↓</u>	<u>1520</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>
<u>15</u>		<u>6W-2(0-4)-072214D</u>	<u>7-22-14</u>	<u>1520</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>7-22-14</u>											

- Preservative Key
- HCL, Cool to 4°
  - H2SO4, Cool to 4°
  - HNO3, Cool to 4°
  - NaOH, Cool to 4°
  - NaOH/Zn, Cool to 4°
  - NaHSO4
  - Cool to 4°
  - None
  - Other

Turnaround Time Required (Business Days)

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

Sample Disposal

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

Relinquished By <u>T. Walker</u>	Company <u>Weston</u>	Date <u>7-27-14</u>	Time <u>1545</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>7/23/14</u>	Time <u>1545</u>
Relinquished By <u>[Signature]</u>	Company <u>JA</u>	Date <u>7/22/14</u>	Time <u>835</u>	Received By <u>[Signature]</u>	Company <u>JA</u>	Date <u>7/23/14</u>	Time <u>0835</u>
Relinquished By <u>[Signature]</u>	Company <u>JA</u>	Date <u>7/23/14</u>	Time <u>1000</u>	Received By <u>[Signature]</u>	Company <u>JA</u>	Date <u>7/23/14</u>	Time <u>1000</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 541 (Grand Ave) at Fairfield Rd Office Phone Number, if available: \_\_\_\_\_

Physical Site Location (address, including number and street):  
24076 - 24160 W. Grand Ave

City: Lake Villa 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: 42.415514031 Longitude: -88.104391785  
(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 541 (Grand Ave) at Fairfield RdLatitude: 42.415514031 Longitude: -88.104391785Uncontaminated 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 R13-3 WAS SAMPLED ADJACENT TO ISGS SITE No. 2732-13. 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: 500-81266-1

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

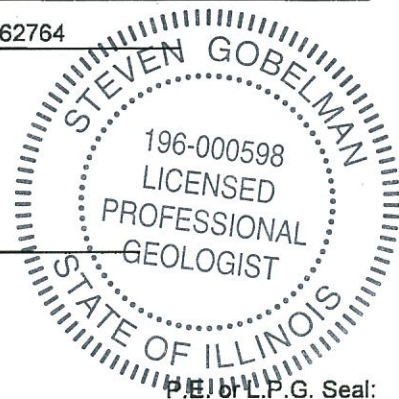
I, Steven Gobelman, P.E., L.P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance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

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

Company Name: Illinois Department of TransportationStreet Address: 2300 South Dirksen ParkwayCity: Springfield State: IL Zip Code: 62764Phone: 217-785-4246Steven Gobelman, P.E., L.P.G.

Printed Name:

  
Licensed Professional Engineer or  
Licensed Professional Geologist Signature:

Date: 2/25/15

**Summary Table of ISGS Site No. 2732-13**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAP 541 (IL Route 132; Grand Avenue) at Fairfield Road**  
**Unincorporated Lake County, Illinois**

Field Sample ID	R13-3(0-4)-072514	R13-3(4-8)-072514	Soil Reference Concentrations <sup>A</sup>
Sample Date	7/25/2014	7/25/2014	
Location ID	R13-3	R13-3	
Depth	0 - 4	4 - 8	
ISGS Site Number	2732-13	2732-13	
<b>Parameter</b>			
Laboratory pH (standard units)	7.99	8.25	<6.25, >9.0
<b>VOCs (ug/kg)</b>	None Detected		
<b>SVOCs (ug/kg)</b>			
<b>Total Metals (mg/kg)</b>			
Arsenic, Total	4 J	12 J	11.3/13.0
Barium, Total	89 J-	100 J-	1500
Beryllium, Total	0.77	0.7	22
Cadmium, Total	0.81 J	1.3 J	5.2
Chromium, Total	19 J+	17 J+	21
Cobalt, Total	8.1 J	12 J	20
Copper, Total	25 J-	23 J-	2900
Iron, Total	16000 J	21000 J	15000/15900
Lead, Total	19 J-	9.9 J-	107
Magnesium, Total	7900 J-	30000 J-	325000
Manganese, Total	210 J	460 J	630/636
Mercury, Total	0.023 J	0.011 J	0.89
Nickel, Total	21	24	100
Selenium, Total	0.45 J	ND	1.3
<b>TCLP Metals (mg/l)</b>			
Arsenic, TCLP	ND	ND	0.05
Barium, TCLP	0.42 J	0.55	2
Beryllium, TCLP	ND	ND	0.004
Cadmium, TCLP	ND	ND	0.005
Chromium, TCLP	ND	ND	0.1
Cobalt, TCLP	0.012 J	ND	1
Copper, TCLP	ND	ND	0.65
Iron, TCLP	ND	ND	5
Lead, TCLP	ND	ND	0.0075
Manganese, TCLP	3.8	0.89	0.15
Mercury, TCLP	ND	ND	0.002
Nickel, TCLP	ND	ND	0.1
Selenium, TCLP	ND	ND	0.05
<b>SPLP Metals (mg/l)</b>			
Arsenic, SPLP	0.035 J	ND	0.05
Barium, SPLP	0.82	0.19 J	2
Beryllium, SPLP	0.0067	ND	0.004
Cadmium, SPLP	ND	ND	0.005
Chromium, SPLP	0.18	0.049	0.1
Cobalt, SPLP	0.057	0.018 J	1
Copper, SPLP	0.12	0.1	0.65
Iron, SPLP	160 J+	34 J+	5
Lead, SPLP	0.084	0.02	0.0075
Manganese, SPLP	0.79	0.18	0.15
Mercury, SPLP	0.0003	0.00031	0.002
Nickel, SPLP	0.14	0.051	0.1
Selenium, SPLP	ND	ND	0.05

**Notes:**

--- - not applicable or value not available.

<sup>A</sup> - 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: 500-81266-1  
Client Project/Site: IDOT - IL Rt. 132 - WO 046

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

Attn: Mr. S. Babusukumar



Authorized for release by:  
8/11/2014 4:30:03 PM

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

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://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 - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81266-1

**Client Sample ID: R13-3(0-4)-072514**

**Lab Sample ID: 500-81266-1**

**Date Collected: 07/25/14 08:25**

**Matrix: Solid**

**Date Received: 07/26/14 06:30**

**Percent Solids: 77.6**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<6.4		6.4	2.8	ug/Kg	☼		07/30/14 00:36	1
Benzene	<6.4		6.4	0.88	ug/Kg	☼		07/30/14 00:36	1
Bromodichloromethane	<6.4		6.4	1.1	ug/Kg	☼		07/30/14 00:36	1
Bromoform	<6.4		6.4	1.5	ug/Kg	☼		07/30/14 00:36	1
Bromomethane	<6.4		6.4	1.9	ug/Kg	☼		07/30/14 00:36	1
Carbon disulfide	<6.4		6.4	0.96	ug/Kg	☼		07/30/14 00:36	1
Carbon tetrachloride	<6.4		6.4	1.2	ug/Kg	☼		07/30/14 00:36	1
Chlorobenzene	<6.4		6.4	0.65	ug/Kg	☼		07/30/14 00:36	1
Chloroethane	<6.4		6.4	1.8	ug/Kg	☼		07/30/14 00:36	1
Chloroform	<6.4		6.4	0.74	ug/Kg	☼		07/30/14 00:36	1
Chloromethane	<6.4		6.4	1.4	ug/Kg	☼		07/30/14 00:36	1
cis-1,2-Dichloroethene	<6.4		6.4	0.91	ug/Kg	☼		07/30/14 00:36	1
cis-1,3-Dichloropropene	<6.4		6.4	0.85	ug/Kg	☼		07/30/14 00:36	1
Dibromochloromethane	<6.4		6.4	1.1	ug/Kg	☼		07/30/14 00:36	1
1,1-Dichloroethane	<6.4		6.4	1.0	ug/Kg	☼		07/30/14 00:36	1
1,2-Dichloroethane	<6.4		6.4	0.95	ug/Kg	☼		07/30/14 00:36	1
1,1,1-Dichloroethene	<6.4		6.4	1.0	ug/Kg	☼		07/30/14 00:36	1
1,2-Dichloropropane	<6.4		6.4	0.98	ug/Kg	☼		07/30/14 00:36	1
1,3-Dichloropropene, Total	<6.4		6.4	0.85	ug/Kg	☼		07/30/14 00:36	1
Ethylbenzene	<6.4		6.4	1.3	ug/Kg	☼		07/30/14 00:36	1
2-Hexanone	<6.4		6.4	1.9	ug/Kg	☼		07/30/14 00:36	1
Methylene Chloride	<6.4		6.4	1.7	ug/Kg	☼		07/30/14 00:36	1
Methyl Ethyl Ketone	<6.4		6.4	2.3	ug/Kg	☼		07/30/14 00:36	1
methyl isobutyl ketone	<6.4		6.4	1.7	ug/Kg	☼		07/30/14 00:36	1
Methyl tert-butyl ether	<6.4		6.4	1.1	ug/Kg	☼		07/30/14 00:36	1
Styrene	<6.4		6.4	0.85	ug/Kg	☼		07/30/14 00:36	1
1,1,1,2-Tetrachloroethane	<6.4		6.4	1.3	ug/Kg	☼		07/30/14 00:36	1
Tetrachloroethene	<6.4		6.4	0.98	ug/Kg	☼		07/30/14 00:36	1
Toluene	<6.4		6.4	0.90	ug/Kg	☼		07/30/14 00:36	1
trans-1,2-Dichloroethene	<6.4		6.4	0.89	ug/Kg	☼		07/30/14 00:36	1
trans-1,3-Dichloropropene	<6.4		6.4	1.2	ug/Kg	☼		07/30/14 00:36	1
1,1,1-Trichloroethane	<6.4		6.4	0.96	ug/Kg	☼		07/30/14 00:36	1
1,1,2-Trichloroethane	<6.4		6.4	0.88	ug/Kg	☼		07/30/14 00:36	1
Trichloroethene	<6.4		6.4	1.1	ug/Kg	☼		07/30/14 00:36	1
Vinyl chloride	<6.4		6.4	1.4	ug/Kg	☼		07/30/14 00:36	1
Xylenes, Total	<13		13	0.58	ug/Kg	☼		07/30/14 00:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 122		07/30/14 00:36	1
Dibromofluoromethane	109		75 - 120		07/30/14 00:36	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 134		07/30/14 00:36	1
Toluene-d8 (Surr)	101		75 - 122		07/30/14 00:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<210		210	45	ug/Kg	☼	08/07/14 07:44	08/08/14 06:28	1
1,2-Dichlorobenzene	<210		210	50	ug/Kg	☼	08/07/14 07:44	08/08/14 06:28	1
1,3-Dichlorobenzene	<210		210	47	ug/Kg	☼	08/07/14 07:44	08/08/14 06:28	1
1,4-Dichlorobenzene	<210		210	54	ug/Kg	☼	08/07/14 07:44	08/08/14 06:28	1
2,2'-oxybis[1-chloropropane]	<210		210	49	ug/Kg	☼	08/07/14 07:44	08/08/14 06:28	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81266-1

**Client Sample ID: R13-3(0-4)-072514**

**Lab Sample ID: 500-81266-1**

**Date Collected: 07/25/14 08:25**

**Matrix: Solid**

**Date Received: 07/26/14 06:30**

**Percent Solids: 77.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<420		420	96	ug/Kg	☼	08/07/14 07:44	08/08/14 06:28	1
2,4,6-Trichlorophenol	<420		420	140	ug/Kg	☼	08/07/14 07:44	08/08/14 06:28	1
2,4-Dichlorophenol	<420		420	100	ug/Kg	☼	08/07/14 07:44	08/08/14 06:28	1
2,4-Dimethylphenol	<420		420	160	ug/Kg	☼	08/07/14 07:44	08/08/14 06:28	1
2,4-Dinitrophenol	<850		850	740	ug/Kg	☼	08/07/14 07:44	08/08/14 06:28	1
2,4-Dinitrotoluene	<210		210	67	ug/Kg	☼	08/07/14 07:44	08/08/14 06:28	1
2,6-Dinitrotoluene	<210		210	83	ug/Kg	☼	08/07/14 07:44	08/08/14 06:28	1
2-Chloronaphthalene	<210		210	47	ug/Kg	☼	08/07/14 07:44	08/08/14 06:28	1
2-Chlorophenol	<210		210	72	ug/Kg	☼	08/07/14 07:44	08/08/14 06:28	1
2-Methylnaphthalene	<42		42	7.8	ug/Kg	☼	08/07/14 07:44	08/08/14 06:28	1
2-Methylphenol	<210		210	68	ug/Kg	☼	08/07/14 07:44	08/08/14 06:28	1
2-Nitroaniline	<210		210	57	ug/Kg	☼	08/07/14 07:44	08/08/14 06:28	1
2-Nitrophenol	<420		420	100	ug/Kg	☼	08/07/14 07:44	08/08/14 06:28	1
3 & 4 Methylphenol	<210		210	70	ug/Kg	☼	08/07/14 07:44	08/08/14 06:28	1
3,3'-Dichlorobenzidine	<210		210	59	ug/Kg	☼	08/07/14 07:44	08/08/14 06:28	1
3-Nitroaniline	<420		420	130	ug/Kg	☼	08/07/14 07:44	08/08/14 06:28	1
4,6-Dinitro-2-methylphenol	<420		420	340	ug/Kg	☼	08/07/14 07:44	08/08/14 06:28	1
4-Bromophenyl phenyl ether	<210		210	56	ug/Kg	☼	08/07/14 07:44	08/08/14 06:28	1
4-Chloro-3-methylphenol	<420		420	140	ug/Kg	☼	08/07/14 07:44	08/08/14 06:28	1
4-Chloroaniline	<850		850	200	ug/Kg	☼	08/07/14 07:44	08/08/14 06:28	1
4-Chlorophenyl phenyl ether	<210		210	49	ug/Kg	☼	08/07/14 07:44	08/08/14 06:28	1
4-Nitroaniline	<420		420	180	ug/Kg	☼	08/07/14 07:44	08/08/14 06:28	1
4-Nitrophenol	<850		850	400	ug/Kg	☼	08/07/14 07:44	08/08/14 06:28	1
Acenaphthene	<42		42	7.6	ug/Kg	☼	08/07/14 07:44	08/08/14 06:28	1
Acenaphthylene	<42		42	5.6	ug/Kg	☼	08/07/14 07:44	08/08/14 06:28	1
Anthracene	<42		42	7.0	ug/Kg	☼	08/07/14 07:44	08/08/14 06:28	1
<b>Benzo[a]anthracene</b>	<b>29 J</b>		42	5.7	ug/Kg	☼	08/07/14 07:44	08/08/14 06:28	1
<b>Benzo[a]pyrene</b>	<b>36 J</b>		42	8.2	ug/Kg	☼	08/07/14 07:44	08/08/14 06:28	1
<b>Benzo[b]fluoranthene</b>	<b>48</b>		42	9.1	ug/Kg	☼	08/07/14 07:44	08/08/14 06:28	1
<b>Benzo[g,h,i]perylene</b>	<b>35 J</b>		42	14	ug/Kg	☼	08/07/14 07:44	08/08/14 06:28	1
<b>Benzo[k]fluoranthene</b>	<b>26 J</b>		42	12	ug/Kg	☼	08/07/14 07:44	08/08/14 06:28	1
Bis(2-chloroethoxy)methane	<210		210	43	ug/Kg	☼	08/07/14 07:44	08/08/14 06:28	1
Bis(2-chloroethyl)ether	<210		210	63	ug/Kg	☼	08/07/14 07:44	08/08/14 06:28	1
Bis(2-ethylhexyl) phthalate	<210		210	77	ug/Kg	☼	08/07/14 07:44	08/08/14 06:28	1
Butyl benzyl phthalate	<210		210	80	ug/Kg	☼	08/07/14 07:44	08/08/14 06:28	1
Carbazole	<210		210	110	ug/Kg	☼	08/07/14 07:44	08/08/14 06:28	1
<b>Chrysene</b>	<b>37 J</b>		42	12	ug/Kg	☼	08/07/14 07:44	08/08/14 06:28	1
Dibenz(a,h)anthracene	<42		42	8.2	ug/Kg	☼	08/07/14 07:44	08/08/14 06:28	1
Dibenzofuran	<210		210	49	ug/Kg	☼	08/07/14 07:44	08/08/14 06:28	1
Diethyl phthalate	<210		210	71	ug/Kg	☼	08/07/14 07:44	08/08/14 06:28	1
Dimethyl phthalate	<210		210	55	ug/Kg	☼	08/07/14 07:44	08/08/14 06:28	1
Di-n-butyl phthalate	<210		210	64	ug/Kg	☼	08/07/14 07:44	08/08/14 06:28	1
Di-n-octyl phthalate	<210		210	69	ug/Kg	☼	08/07/14 07:44	08/08/14 06:28	1
<b>Fluoranthene</b>	<b>60</b>		42	7.8	ug/Kg	☼	08/07/14 07:44	08/08/14 06:28	1
Fluorene	<42		42	5.9	ug/Kg	☼	08/07/14 07:44	08/08/14 06:28	1
Hexachlorobenzene	<85		85	9.8	ug/Kg	☼	08/07/14 07:44	08/08/14 06:28	1
Hexachlorobutadiene	<210		210	66	ug/Kg	☼	08/07/14 07:44	08/08/14 06:28	1
Hexachlorocyclopentadiene	<850		850	240	ug/Kg	☼	08/07/14 07:44	08/08/14 06:28	1
Hexachloroethane	<210		210	64	ug/Kg	☼	08/07/14 07:44	08/08/14 06:28	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81266-1

**Client Sample ID: R13-3(0-4)-072514**

**Lab Sample ID: 500-81266-1**

**Date Collected: 07/25/14 08:25**

**Matrix: Solid**

**Date Received: 07/26/14 06:30**

**Percent Solids: 77.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Indeno[1,2,3-cd]pyrene</b>	<b>27</b>	<b>J</b>	42	11	ug/Kg	☼	08/07/14 07:44	08/08/14 06:28	1
Isophorone	<210		210	47	ug/Kg	☼	08/07/14 07:44	08/08/14 06:28	1
Naphthalene	<42		42	6.5	ug/Kg	☼	08/07/14 07:44	08/08/14 06:28	1
Nitrobenzene	<42		42	11	ug/Kg	☼	08/07/14 07:44	08/08/14 06:28	1
N-Nitrosodi-n-propylamine	<210		210	52	ug/Kg	☼	08/07/14 07:44	08/08/14 06:28	1
N-Nitrosodiphenylamine	<210		210	50	ug/Kg	☼	08/07/14 07:44	08/08/14 06:28	1
Pentachlorophenol	<850		850	680	ug/Kg	☼	08/07/14 07:44	08/08/14 06:28	1
<b>Phenanthrene</b>	<b>25</b>	<b>J</b>	42	5.9	ug/Kg	☼	08/07/14 07:44	08/08/14 06:28	1
Phenol	<210		210	94	ug/Kg	☼	08/07/14 07:44	08/08/14 06:28	1
<b>Pyrene</b>	<b>100</b>		42	8.4	ug/Kg	☼	08/07/14 07:44	08/08/14 06:28	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2,4,6-Tribromophenol	81		35 - 137				08/07/14 07:44	08/08/14 06:28	1
2-Fluorobiphenyl	66		25 - 119				08/07/14 07:44	08/08/14 06:28	1
2-Fluorophenol	68		25 - 110				08/07/14 07:44	08/08/14 06:28	1
Nitrobenzene-d5	62		25 - 115				08/07/14 07:44	08/08/14 06:28	1
Phenol-d5	68		31 - 110				08/07/14 07:44	08/08/14 06:28	1
Terphenyl-d14	157	X	36 - 134				08/07/14 07:44	08/08/14 06:28	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		08/05/14 08:30	08/06/14 00:54	1
<b>Barium</b>	<b>0.42</b>	<b>J</b>	0.50	0.050	mg/L		08/05/14 08:30	08/06/14 00:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/05/14 08:30	08/06/14 00:54	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/05/14 08:30	08/06/14 00:54	1
Chromium	<0.025		0.025	0.010	mg/L		08/05/14 08:30	08/06/14 00:54	1
<b>Cobalt</b>	<b>0.012</b>	<b>J</b>	0.025	0.010	mg/L		08/05/14 08:30	08/06/14 00:54	1
Copper	<0.025		0.025	0.010	mg/L		08/05/14 08:30	08/06/14 00:54	1
Iron	<0.20		0.20	0.20	mg/L		08/05/14 08:30	08/06/14 00:54	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/05/14 08:30	08/06/14 00:54	1
<b>Manganese</b>	<b>3.8</b>		0.025	0.010	mg/L		08/05/14 08:30	08/06/14 00:54	1
Nickel	<0.025		0.025	0.010	mg/L		08/05/14 08:30	08/06/14 00:54	1
Selenium	<0.050		0.050	0.010	mg/L		08/05/14 08:30	08/06/14 00:54	1
Silver	<0.025		0.025	0.010	mg/L		08/05/14 08:30	08/06/14 00:54	1
<b>Zinc</b>	<b>0.024</b>	<b>J</b>	0.10	0.020	mg/L		08/05/14 08:30	08/06/14 00:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.035</b>	<b>J</b>	0.050	0.010	mg/L		08/05/14 10:30	08/06/14 03:58	1
<b>Barium</b>	<b>0.82</b>		0.50	0.050	mg/L		08/05/14 10:30	08/06/14 03:58	1
<b>Beryllium</b>	<b>0.0067</b>		0.0040	0.0040	mg/L		08/05/14 10:30	08/06/14 03:58	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/05/14 10:30	08/06/14 03:58	1
<b>Chromium</b>	<b>0.18</b>		0.025	0.010	mg/L		08/05/14 10:30	08/06/14 03:58	1
<b>Cobalt</b>	<b>0.057</b>		0.025	0.010	mg/L		08/05/14 10:30	08/06/14 03:58	1
<b>Copper</b>	<b>0.12</b>		0.025	0.010	mg/L		08/05/14 10:30	08/06/14 03:58	1
<b>Iron</b>	<b>160</b>		0.20	0.20	mg/L		08/05/14 10:30	08/06/14 03:58	1
<b>Lead</b>	<b>0.084</b>		0.0075	0.0075	mg/L		08/05/14 10:30	08/06/14 03:58	1
<b>Manganese</b>	<b>0.79</b>		0.025	0.010	mg/L		08/05/14 10:30	08/06/14 03:58	1
<b>Nickel</b>	<b>0.14</b>		0.025	0.010	mg/L		08/05/14 10:30	08/06/14 03:58	1
Selenium	<0.050		0.050	0.010	mg/L		08/05/14 10:30	08/06/14 03:58	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81266-1

**Client Sample ID: R13-3(0-4)-072514**

**Lab Sample ID: 500-81266-1**

Date Collected: 07/25/14 08:25

Matrix: Solid

Date Received: 07/26/14 06:30

**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		08/05/14 10:30	08/06/14 03:58	1
<b>Zinc</b>	<b>0.32</b>	<b>B</b>	0.10	0.020	mg/L		08/05/14 10:30	08/06/14 03:58	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.3		1.3	0.50	mg/Kg	☼	08/01/14 17:50	08/04/14 21:08	1
<b>Arsenic</b>	<b>4.0</b>		0.63	0.12	mg/Kg	☼	08/01/14 17:50	08/04/14 21:08	1
<b>Barium</b>	<b>89</b>		0.63	0.067	mg/Kg	☼	08/01/14 17:50	08/04/14 21:08	1
<b>Beryllium</b>	<b>0.77</b>		0.25	0.050	mg/Kg	☼	08/01/14 17:50	08/04/14 21:08	1
<b>Cadmium</b>	<b>0.81</b>		0.13	0.016	mg/Kg	☼	08/01/14 17:50	08/04/14 21:08	1
<b>Calcium</b>	<b>12000</b>		13	3.4	mg/Kg	☼	08/01/14 17:50	08/04/14 21:08	1
<b>Chromium</b>	<b>19</b>	<b>B</b>	0.63	0.073	mg/Kg	☼	08/01/14 17:50	08/04/14 21:08	1
<b>Cobalt</b>	<b>8.1</b>		0.31	0.063	mg/Kg	☼	08/01/14 17:50	08/04/14 21:08	1
<b>Copper</b>	<b>25</b>		0.63	0.13	mg/Kg	☼	08/01/14 17:50	08/04/14 21:08	1
<b>Iron</b>	<b>16000</b>		13	5.2	mg/Kg	☼	08/01/14 17:50	08/04/14 21:08	1
<b>Lead</b>	<b>19</b>	<b>B</b>	0.31	0.094	mg/Kg	☼	08/01/14 17:50	08/04/14 21:08	1
<b>Magnesium</b>	<b>7900</b>		6.3	1.3	mg/Kg	☼	08/01/14 17:50	08/04/14 21:08	1
<b>Manganese</b>	<b>210</b>		0.63	0.13	mg/Kg	☼	08/01/14 17:50	08/04/14 21:08	1
<b>Nickel</b>	<b>21</b>		0.63	0.13	mg/Kg	☼	08/01/14 17:50	08/04/14 21:08	1
<b>Potassium</b>	<b>1100</b>		31	1.9	mg/Kg	☼	08/01/14 17:50	08/04/14 21:08	1
<b>Selenium</b>	<b>0.45</b>	<b>J</b>	0.63	0.22	mg/Kg	☼	08/01/14 17:50	08/04/14 21:08	1
Silver	<0.31		0.31	0.023	mg/Kg	☼	08/01/14 17:50	08/04/14 21:08	1
<b>Sodium</b>	<b>2000</b>		63	8.4	mg/Kg	☼	08/01/14 17:50	08/04/14 21:08	1
Thallium	<0.63		0.63	0.26	mg/Kg	☼	08/01/14 17:50	08/04/14 21:08	1
<b>Vanadium</b>	<b>26</b>	<b>B</b>	0.31	0.046	mg/Kg	☼	08/01/14 17:50	08/04/14 21:08	1
<b>Zinc</b>	<b>52</b>		1.3	0.25	mg/Kg	☼	08/01/14 17:50	08/04/14 21:08	1

**Method: 7470A - Mercury (CVAA) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		08/05/14 12:00	08/06/14 09:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.30</b>		0.20	0.20	ug/L		08/05/14 12:00	08/06/14 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
<b>Mercury</b>	<b>23</b>		20	7.7	ug/Kg	☼	08/01/14 12:00	08/04/14 12:28	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.99</b>		0.200	0.200	SU			08/01/14 15:23	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81266-1

**Client Sample ID: R13-3(4-8)-072514**

**Lab Sample ID: 500-81266-2**

**Date Collected: 07/25/14 08:30**

**Matrix: Solid**

**Date Received: 07/26/14 06:30**

**Percent Solids: 84.1**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	57		5.9	2.6	ug/Kg	☼		07/30/14 00:59	1
Benzene	<5.9		5.9	0.81	ug/Kg	☼		07/30/14 00:59	1
Bromodichloromethane	<5.9		5.9	1.0	ug/Kg	☼		07/30/14 00:59	1
Bromoform	<5.9		5.9	1.4	ug/Kg	☼		07/30/14 00:59	1
Bromomethane	<5.9		5.9	1.8	ug/Kg	☼		07/30/14 00:59	1
Carbon disulfide	<5.9		5.9	0.89	ug/Kg	☼		07/30/14 00:59	1
Carbon tetrachloride	<5.9		5.9	1.1	ug/Kg	☼		07/30/14 00:59	1
Chlorobenzene	<5.9		5.9	0.60	ug/Kg	☼		07/30/14 00:59	1
Chloroethane	<5.9		5.9	1.6	ug/Kg	☼		07/30/14 00:59	1
Chloroform	<5.9		5.9	0.68	ug/Kg	☼		07/30/14 00:59	1
Chloromethane	<5.9		5.9	1.2	ug/Kg	☼		07/30/14 00:59	1
cis-1,2-Dichloroethene	<5.9		5.9	0.84	ug/Kg	☼		07/30/14 00:59	1
cis-1,3-Dichloropropene	<5.9		5.9	0.78	ug/Kg	☼		07/30/14 00:59	1
Dibromochloromethane	<5.9		5.9	1.0	ug/Kg	☼		07/30/14 00:59	1
1,1-Dichloroethane	<5.9		5.9	0.94	ug/Kg	☼		07/30/14 00:59	1
1,2-Dichloroethane	<5.9		5.9	0.88	ug/Kg	☼		07/30/14 00:59	1
1,1-Dichloroethene	<5.9		5.9	0.96	ug/Kg	☼		07/30/14 00:59	1
1,2-Dichloropropane	<5.9		5.9	0.90	ug/Kg	☼		07/30/14 00:59	1
1,3-Dichloropropene, Total	<5.9		5.9	0.78	ug/Kg	☼		07/30/14 00:59	1
Ethylbenzene	<5.9		5.9	1.2	ug/Kg	☼		07/30/14 00:59	1
2-Hexanone	<5.9		5.9	1.7	ug/Kg	☼		07/30/14 00:59	1
Methylene Chloride	<5.9		5.9	1.6	ug/Kg	☼		07/30/14 00:59	1
Methyl Ethyl Ketone	<5.9		5.9	2.2	ug/Kg	☼		07/30/14 00:59	1
methyl isobutyl ketone	<5.9		5.9	1.6	ug/Kg	☼		07/30/14 00:59	1
Methyl tert-butyl ether	<5.9		5.9	0.98	ug/Kg	☼		07/30/14 00:59	1
Styrene	<5.9		5.9	0.78	ug/Kg	☼		07/30/14 00:59	1
1,1,2,2-Tetrachloroethane	<5.9		5.9	1.2	ug/Kg	☼		07/30/14 00:59	1
Tetrachloroethene	<5.9		5.9	0.91	ug/Kg	☼		07/30/14 00:59	1
Toluene	<5.9		5.9	0.83	ug/Kg	☼		07/30/14 00:59	1
trans-1,2-Dichloroethene	<5.9		5.9	0.82	ug/Kg	☼		07/30/14 00:59	1
trans-1,3-Dichloropropene	<5.9		5.9	1.1	ug/Kg	☼		07/30/14 00:59	1
1,1,1-Trichloroethane	<5.9		5.9	0.89	ug/Kg	☼		07/30/14 00:59	1
1,1,2-Trichloroethane	<5.9		5.9	0.81	ug/Kg	☼		07/30/14 00:59	1
Trichloroethene	<5.9		5.9	0.98	ug/Kg	☼		07/30/14 00:59	1
Vinyl chloride	<5.9		5.9	1.2	ug/Kg	☼		07/30/14 00:59	1
Xylenes, Total	<12		12	0.54	ug/Kg	☼		07/30/14 00:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 122		07/30/14 00:59	1
Dibromofluoromethane	114		75 - 120		07/30/14 00:59	1
1,2-Dichloroethane-d4 (Surr)	109		70 - 134		07/30/14 00:59	1
Toluene-d8 (Surr)	99		75 - 122		07/30/14 00:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	40	ug/Kg	☼	08/07/14 07:44	08/08/14 02:14	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	08/07/14 07:44	08/08/14 02:14	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	08/07/14 07:44	08/08/14 02:14	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	08/07/14 07:44	08/08/14 02:14	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	08/07/14 07:44	08/08/14 02:14	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81266-1

**Client Sample ID: R13-3(4-8)-072514**

**Lab Sample ID: 500-81266-2**

**Date Collected: 07/25/14 08:30**

**Matrix: Solid**

**Date Received: 07/26/14 06:30**

**Percent Solids: 84.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	85	ug/Kg	☼	08/07/14 07:44	08/08/14 02:14	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	08/07/14 07:44	08/08/14 02:14	1
2,4-Dichlorophenol	<370		370	89	ug/Kg	☼	08/07/14 07:44	08/08/14 02:14	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	08/07/14 07:44	08/08/14 02:14	1
2,4-Dinitrophenol	<750		750	660	ug/Kg	☼	08/07/14 07:44	08/08/14 02:14	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	08/07/14 07:44	08/08/14 02:14	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	08/07/14 07:44	08/08/14 02:14	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	08/07/14 07:44	08/08/14 02:14	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	08/07/14 07:44	08/08/14 02:14	1
2-Methylnaphthalene	<37		37	6.9	ug/Kg	☼	08/07/14 07:44	08/08/14 02:14	1
2-Methylphenol	<190		190	60	ug/Kg	☼	08/07/14 07:44	08/08/14 02:14	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	08/07/14 07:44	08/08/14 02:14	1
2-Nitrophenol	<370		370	88	ug/Kg	☼	08/07/14 07:44	08/08/14 02:14	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	08/07/14 07:44	08/08/14 02:14	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	08/07/14 07:44	08/08/14 02:14	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	08/07/14 07:44	08/08/14 02:14	1
4,6-Dinitro-2-methylphenol	<370		370	300	ug/Kg	☼	08/07/14 07:44	08/08/14 02:14	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	08/07/14 07:44	08/08/14 02:14	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	08/07/14 07:44	08/08/14 02:14	1
4-Chloroaniline	<750		750	180	ug/Kg	☼	08/07/14 07:44	08/08/14 02:14	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	08/07/14 07:44	08/08/14 02:14	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	08/07/14 07:44	08/08/14 02:14	1
4-Nitrophenol	<750		750	350	ug/Kg	☼	08/07/14 07:44	08/08/14 02:14	1
Acenaphthene	<37		37	6.7	ug/Kg	☼	08/07/14 07:44	08/08/14 02:14	1
Acenaphthylene	<37		37	4.9	ug/Kg	☼	08/07/14 07:44	08/08/14 02:14	1
Anthracene	<37		37	6.2	ug/Kg	☼	08/07/14 07:44	08/08/14 02:14	1
Benzo[a]anthracene	<37		37	5.0	ug/Kg	☼	08/07/14 07:44	08/08/14 02:14	1
Benzo[a]pyrene	<37		37	7.2	ug/Kg	☼	08/07/14 07:44	08/08/14 02:14	1
Benzo[b]fluoranthene	<37		37	8.1	ug/Kg	☼	08/07/14 07:44	08/08/14 02:14	1
Benzo[g,h,i]perylene	<37		37	12	ug/Kg	☼	08/07/14 07:44	08/08/14 02:14	1
Benzo[k]fluoranthene	<37		37	11	ug/Kg	☼	08/07/14 07:44	08/08/14 02:14	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	08/07/14 07:44	08/08/14 02:14	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	08/07/14 07:44	08/08/14 02:14	1
Bis(2-ethylhexyl) phthalate	<190		190	68	ug/Kg	☼	08/07/14 07:44	08/08/14 02:14	1
Butyl benzyl phthalate	<190		190	71	ug/Kg	☼	08/07/14 07:44	08/08/14 02:14	1
Carbazole	<190		190	96	ug/Kg	☼	08/07/14 07:44	08/08/14 02:14	1
Chrysene	<37		37	10	ug/Kg	☼	08/07/14 07:44	08/08/14 02:14	1
Dibenz(a,h)anthracene	<37		37	7.2	ug/Kg	☼	08/07/14 07:44	08/08/14 02:14	1
Dibenzofuran	<190		190	44	ug/Kg	☼	08/07/14 07:44	08/08/14 02:14	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	08/07/14 07:44	08/08/14 02:14	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	08/07/14 07:44	08/08/14 02:14	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	08/07/14 07:44	08/08/14 02:14	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	08/07/14 07:44	08/08/14 02:14	1
Fluoranthene	<37		37	6.9	ug/Kg	☼	08/07/14 07:44	08/08/14 02:14	1
Fluorene	<37		37	5.2	ug/Kg	☼	08/07/14 07:44	08/08/14 02:14	1
Hexachlorobenzene	<75		75	8.6	ug/Kg	☼	08/07/14 07:44	08/08/14 02:14	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	08/07/14 07:44	08/08/14 02:14	1
Hexachlorocyclopentadiene	<750		750	210	ug/Kg	☼	08/07/14 07:44	08/08/14 02:14	1
Hexachloroethane	<190		190	57	ug/Kg	☼	08/07/14 07:44	08/08/14 02:14	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81266-1

**Client Sample ID: R13-3(4-8)-072514**

**Lab Sample ID: 500-81266-2**

**Date Collected: 07/25/14 08:30**

**Matrix: Solid**

**Date Received: 07/26/14 06:30**

**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	<37		37	9.7	ug/Kg	☼	08/07/14 07:44	08/08/14 02:14	1
Isophorone	<190		190	42	ug/Kg	☼	08/07/14 07:44	08/08/14 02:14	1
Naphthalene	<37		37	5.7	ug/Kg	☼	08/07/14 07:44	08/08/14 02:14	1
Nitrobenzene	<37		37	9.3	ug/Kg	☼	08/07/14 07:44	08/08/14 02:14	1
N-Nitrosodi-n-propylamine	<190		190	46	ug/Kg	☼	08/07/14 07:44	08/08/14 02:14	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	08/07/14 07:44	08/08/14 02:14	1
Pentachlorophenol	<750		750	600	ug/Kg	☼	08/07/14 07:44	08/08/14 02:14	1
Phenanthrene	<37		37	5.2	ug/Kg	☼	08/07/14 07:44	08/08/14 02:14	1
Phenol	<190		190	83	ug/Kg	☼	08/07/14 07:44	08/08/14 02:14	1
Pyrene	<37		37	7.4	ug/Kg	☼	08/07/14 07:44	08/08/14 02:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	74		35 - 137				08/07/14 07:44	08/08/14 02:14	1
2-Fluorobiphenyl	65		25 - 119				08/07/14 07:44	08/08/14 02:14	1
2-Fluorophenol	73		25 - 110				08/07/14 07:44	08/08/14 02:14	1
Nitrobenzene-d5	66		25 - 115				08/07/14 07:44	08/08/14 02:14	1
Phenol-d5	69		31 - 110				08/07/14 07:44	08/08/14 02:14	1
Terphenyl-d14	85		36 - 134				08/07/14 07:44	08/08/14 02:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		08/05/14 08:30	08/06/14 01:19	1
<b>Barium</b>	<b>0.55</b>		0.50	0.050	mg/L		08/05/14 08:30	08/06/14 01:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/05/14 08:30	08/06/14 01:19	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/05/14 08:30	08/06/14 01:19	1
Chromium	<0.025		0.025	0.010	mg/L		08/05/14 08:30	08/06/14 01:19	1
Cobalt	<0.025		0.025	0.010	mg/L		08/05/14 08:30	08/06/14 01:19	1
Copper	<0.025		0.025	0.010	mg/L		08/05/14 08:30	08/06/14 01:19	1
Iron	<0.20		0.20	0.20	mg/L		08/05/14 08:30	08/06/14 01:19	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/05/14 08:30	08/06/14 01:19	1
<b>Manganese</b>	<b>0.89</b>		0.025	0.010	mg/L		08/05/14 08:30	08/06/14 01:19	1
Nickel	<0.025		0.025	0.010	mg/L		08/05/14 08:30	08/06/14 01:19	1
Selenium	<0.050		0.050	0.010	mg/L		08/05/14 08:30	08/06/14 01:19	1
Silver	<0.025		0.025	0.010	mg/L		08/05/14 08:30	08/06/14 01:19	1
Zinc	<0.10		0.10	0.020	mg/L		08/05/14 08:30	08/06/14 01:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		08/05/14 10:30	08/06/14 04:39	1
<b>Barium</b>	<b>0.19</b>	<b>J</b>	0.50	0.050	mg/L		08/05/14 10:30	08/06/14 04:39	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/05/14 10:30	08/06/14 04:39	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/05/14 10:30	08/06/14 04:39	1
<b>Chromium</b>	<b>0.049</b>		0.025	0.010	mg/L		08/05/14 10:30	08/06/14 04:39	1
<b>Cobalt</b>	<b>0.018</b>	<b>J</b>	0.025	0.010	mg/L		08/05/14 10:30	08/06/14 04:39	1
<b>Copper</b>	<b>0.10</b>		0.025	0.010	mg/L		08/05/14 10:30	08/06/14 04:39	1
<b>Iron</b>	<b>34</b>		0.20	0.20	mg/L		08/05/14 10:30	08/06/14 04:39	1
<b>Lead</b>	<b>0.020</b>		0.0075	0.0075	mg/L		08/05/14 10:30	08/06/14 04:39	1
<b>Manganese</b>	<b>0.18</b>		0.025	0.010	mg/L		08/05/14 10:30	08/06/14 04:39	1
<b>Nickel</b>	<b>0.051</b>		0.025	0.010	mg/L		08/05/14 10:30	08/06/14 04:39	1
Selenium	<0.050		0.050	0.010	mg/L		08/05/14 10:30	08/06/14 04:39	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81266-1

**Client Sample ID: R13-3(4-8)-072514**

**Lab Sample ID: 500-81266-2**

Date Collected: 07/25/14 08:30

Matrix: Solid

Date Received: 07/26/14 06:30

**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		08/05/14 10:30	08/06/14 04:39	1
Zinc	0.15	B	0.10	0.020	mg/L		08/05/14 10:30	08/06/14 04:39	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.47	mg/Kg	☼	08/01/14 17:50	08/04/14 21:39	1
Arsenic	12		0.59	0.12	mg/Kg	☼	08/01/14 17:50	08/04/14 21:39	1
Barium	100		0.59	0.063	mg/Kg	☼	08/01/14 17:50	08/04/14 21:39	1
Beryllium	0.70		0.23	0.047	mg/Kg	☼	08/01/14 17:50	08/04/14 21:39	1
Cadmium	1.3		0.12	0.015	mg/Kg	☼	08/01/14 17:50	08/04/14 21:39	1
Calcium	100000		120	32	mg/Kg	☼	08/01/14 17:50	08/05/14 20:02	10
Chromium	17	B	0.59	0.068	mg/Kg	☼	08/01/14 17:50	08/04/14 21:39	1
Cobalt	12		0.29	0.059	mg/Kg	☼	08/01/14 17:50	08/04/14 21:39	1
Copper	23		0.59	0.12	mg/Kg	☼	08/01/14 17:50	08/04/14 21:39	1
Iron	21000		12	4.8	mg/Kg	☼	08/01/14 17:50	08/04/14 21:39	1
Lead	9.9	B	0.29	0.087	mg/Kg	☼	08/01/14 17:50	08/04/14 21:39	1
Magnesium	30000		5.9	1.2	mg/Kg	☼	08/01/14 17:50	08/04/14 21:39	1
Manganese	460		0.59	0.12	mg/Kg	☼	08/01/14 17:50	08/04/14 21:39	1
Nickel	24		0.59	0.12	mg/Kg	☼	08/01/14 17:50	08/04/14 21:39	1
Potassium	1600		29	1.8	mg/Kg	☼	08/01/14 17:50	08/04/14 21:39	1
Selenium	<0.59		0.59	0.21	mg/Kg	☼	08/01/14 17:50	08/04/14 21:39	1
Silver	0.048	J	0.29	0.021	mg/Kg	☼	08/01/14 17:50	08/04/14 21:39	1
Sodium	1600		59	7.8	mg/Kg	☼	08/01/14 17:50	08/04/14 21:39	1
Thallium	0.30	J	0.59	0.25	mg/Kg	☼	08/01/14 17:50	08/04/14 21:39	1
Vanadium	26	B	0.29	0.043	mg/Kg	☼	08/01/14 17:50	08/04/14 21:39	1
Zinc	34		1.2	0.24	mg/Kg	☼	08/01/14 17:50	08/04/14 21:39	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		08/05/14 12:00	08/06/14 10:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.31		0.20	0.20	ug/L		08/05/14 12:00	08/06/14 10:55	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	11	J	19	7.6	ug/Kg	☼	08/01/14 12:00	08/04/14 12:30	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.25		0.200	0.200	SU			08/01/14 15:25	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81266-1

## 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.
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
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.
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 - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81266-1

## 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

THE LEADER IN ENVIRONMENT.

2417 Bond Street, University Park, IL 1  
Phone: 708.534.5200 Fax: 708.53



500-81266 COC

Report To (optional)  
Contact: S. Babusukumar  
Company: Weston Solutions Inc.  
Address: 300 Plaza Circle, Ste. 202  
Mundelein, IL 60060  
Phone: 224-864-7250  
Fax: 224-864-7236  
E-Mail:

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

## Chain of Custody Record

Lab Job #: 500-81266  
Chain of Custody Number:  
Page 1 of 3  
Temperature °C of Cooler: (4.0) (3.7)

Client		Client Project #		Preservative		Parameter		Matrix		Comments		
Weston Solutions Inc.				8	8	8	8	8			Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name IDOT 046-IL132 (Grand Ave)		Lab Project #										
Project Location/State Lake County, IL		Lab PM D. Wright										
Sampler M. Donnelly-Skubic												
Lab ID	MIS/MSD	Sample ID	Sampling		# of Containers	Matrix	VOCs	SVOCs	TOTAL METALS	TRUP/SUP METALS	PH	Comments
			Date	Time								
1		R13-3(0-4)-072514	7-25-14	0825	2	S	X	X	X	X	X	
2		R13-3(48)-072514	7-25-14	0830	2	S	X	X	X	X	X	
3		R13-2(0-4)-072514	7-25-14	0855	2	S	X	X	X	X	X	
4		R13-2(4-8)-072514	7-25-14	0900	2	S	X	X	X	X	X	
5		R13-1(0-4)-072514	7-25-14	0925	2	S	X	X	X	X	X	
6		R13-1(4-8)-072514	7-25-14	0930	2	S	X	X	X	X	X	
7		CLM-1(0-6)-072514	7-25-14	0949	2	S	X	X	X	X	X	
8		PA-4(0-6)-072514	7-25-14	1010	2	S	X	X	X	X	X	
9		PA-3(0-6)-072514	7-25-14	1030	2	S	X	X	X	X	X	
10		PA-2(0-6)-072514	7-25-14	1110	2	S	X	X	X	X	X	

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

Relinquished By: <u>[Signature]</u> Company: <u>Weston</u> Date: <u>7-25-14</u> Time: <u>1526</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>7/25/14</u> Time: <u>1526</u>
Relinquished By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>7/25/14</u> Time: <u>1650</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>7/26/14</u> Time: <u>0630</u>
Relinquished By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>7/25/14</u> Time: <u>1835</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>7/26/14</u> Time: <u>0630</u>

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 541 (Grand Ave) at Fairfield Rd Office Phone Number, if available: \_\_\_\_\_

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

24149 - 24163 W. Grand Ave

City: Lake Villa 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: 42.415408863 Longitude: -88.104871921  
(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 541 (Grand Ave) at Fairfield Rd  
Latitude: 42.415408863 Longitude: -88.104871921

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 R14-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2732-14. 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: 500-81068-1

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

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

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

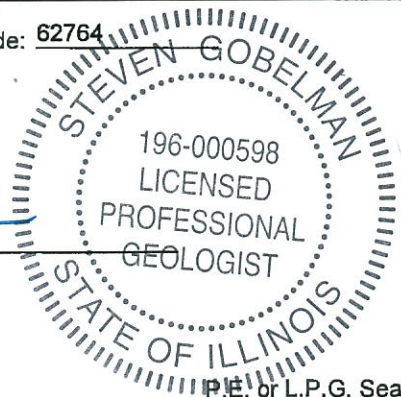
Company Name: Illinois Department of Transportation  
Street Address: 2300 South Dirksen Parkway  
City: Springfield State: IL Zip Code: 62764  
Phone: 217-785-4246

Steven Gobelman, P.E., L.P.G.

Printed Name:

[Signature]  
Licensed Professional Engineer or  
Licensed Professional Geologist Signature:

2/25/15  
Date:



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

**Summary Table of ISGS Site No. 2732-14**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAP 541 (IL Route 132; Grand Avenue) at Fairfield Road**  
**Unincorporated Lake County, Illinois**

Field Sample ID	R14-1(0-4)-072214	<b>Soil Reference Concentrations<sup>A</sup></b>
Sample Date	7/22/2014	
Location ID	R14-1	
Depth	0 - 4	
ISGS Site Number	2732-14	
Parameter		
Laboratory pH (standard units)	8.42	<6.25, >9.0
<b>VOCs (ug/kg)</b>	<b>None Detected</b>	
<b>SVOCs (ug/kg)</b>	<b>None Detected</b>	
<b>Total Metals (mg/kg)</b>		
Arsenic, Total	6.8 J-	11.3/13.0
Barium, Total	45 J	1500
Beryllium, Total	0.64 J	22
Cadmium, Total	0.11 J	5.2
Chromium, Total	17 J	21
Cobalt, Total	11 J	20
Copper, Total	22 J	2900
Iron, Total	18000 J	15000/15900
Lead, Total	13 J	107
Magnesium, Total	34000 J	325000
Manganese, Total	450 J	630/636
Mercury, Total	0.061	0.89
Nickel, Total	27 J	100
Selenium, Total	0.43 J	1.3
<b>TCLP Metals (mg/l)</b>		
Arsenic, TCLP	ND	0.05
Barium, TCLP	0.36 J	2
Beryllium, TCLP	ND	0.004
Cadmium, TCLP	0.0024 J	0.005
Chromium, TCLP	ND	0.1
Cobalt, TCLP	0.028	1
Copper, TCLP	0.031	0.65
Iron, TCLP	ND	5
Lead, TCLP	ND	0.0075
Manganese, TCLP	5.2	0.15
Mercury, TCLP	ND	0.002
Nickel, TCLP	0.026	0.1
Selenium, TCLP	ND	0.05
<b>SPLP Metals (mg/l)</b>		
Arsenic, SPLP	0.051	0.05
Barium, SPLP	0.48 J	2
Beryllium, SPLP	0.0055	0.004
Cadmium, SPLP	0.0035 J	0.005
Chromium, SPLP	0.13	0.1
Cobalt, SPLP	0.058	1
Copper, SPLP	0.2	0.65
Iron, SPLP	140	5
Lead, SPLP	0.089	0.0075
Manganese, SPLP	1.2	0.15
Mercury, SPLP	0.0003	0.002
Nickel, SPLP	0.17	0.1
Selenium, SPLP	ND	0.05

**Notes:**

--- - not applicable or value not available.

<sup>A</sup> - 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: 500-81068-1

Client Project/Site: IDOT - IL Rt. 132 - WO 046

For:

Weston Solutions, Inc.

300 Plaza Circle, Suite 202

Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar



Authorized for release by:

8/6/2014 1:51:19 PM

Richard Wright, Senior Project Manager

(708)534-5200

[richard.wright@testamericainc.com](mailto:richard.wright@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 - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81068-1

**Client Sample ID: R14-1(0-4)-072214**

**Lab Sample ID: 500-81068-12**

**Date Collected: 07/22/14 14:45**

**Matrix: Solid**

**Date Received: 07/23/14 10:00**

**Percent Solids: 85.0**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>91</b>		5.9	2.5	ug/Kg	☼		07/25/14 03:33	1
Benzene	<5.9		5.9	0.81	ug/Kg	☼		07/25/14 03:33	1
Bromodichloromethane	<5.9		5.9	1.0	ug/Kg	☼		07/25/14 03:33	1
Bromoform	<5.9		5.9	1.4	ug/Kg	☼		07/25/14 03:33	1
Bromomethane	<5.9		5.9	1.8	ug/Kg	☼		07/25/14 03:33	1
Carbon disulfide	<5.9		5.9	0.88	ug/Kg	☼		07/25/14 03:33	1
Carbon tetrachloride	<5.9		5.9	1.1	ug/Kg	☼		07/25/14 03:33	1
Chlorobenzene	<5.9		5.9	0.60	ug/Kg	☼		07/25/14 03:33	1
Chloroethane	<5.9		5.9	1.6	ug/Kg	☼		07/25/14 03:33	1
Chloroform	<5.9		5.9	0.68	ug/Kg	☼		07/25/14 03:33	1
Chloromethane	<5.9		5.9	1.2	ug/Kg	☼		07/25/14 03:33	1
cis-1,2-Dichloroethene	<5.9		5.9	0.83	ug/Kg	☼		07/25/14 03:33	1
cis-1,3-Dichloropropene	<5.9		5.9	0.77	ug/Kg	☼		07/25/14 03:33	1
Dibromochloromethane	<5.9		5.9	1.0	ug/Kg	☼		07/25/14 03:33	1
1,1-Dichloroethane	<5.9		5.9	0.93	ug/Kg	☼		07/25/14 03:33	1
1,2-Dichloroethane	<5.9		5.9	0.87	ug/Kg	☼		07/25/14 03:33	1
1,1-Dichloroethene	<5.9		5.9	0.95	ug/Kg	☼		07/25/14 03:33	1
1,2-Dichloropropane	<5.9		5.9	0.89	ug/Kg	☼		07/25/14 03:33	1
1,3-Dichloropropene, Total	<5.9		5.9	0.77	ug/Kg	☼		07/25/14 03:33	1
Ethylbenzene	<5.9		5.9	1.2	ug/Kg	☼		07/25/14 03:33	1
2-Hexanone	<5.9		5.9	1.7	ug/Kg	☼		07/25/14 03:33	1
Methylene Chloride	<5.9		5.9	1.6	ug/Kg	☼		07/25/14 03:33	1
<b>Methyl Ethyl Ketone</b>	<b>18</b>		5.9	2.1	ug/Kg	☼		07/25/14 03:33	1
methyl isobutyl ketone	<5.9		5.9	1.5	ug/Kg	☼		07/25/14 03:33	1
Methyl tert-butyl ether	<5.9		5.9	0.97	ug/Kg	☼		07/25/14 03:33	1
Styrene	<5.9		5.9	0.77	ug/Kg	☼		07/25/14 03:33	1
1,1,2,2-Tetrachloroethane	<5.9		5.9	1.2	ug/Kg	☼		07/25/14 03:33	1
Tetrachloroethene	<5.9		5.9	0.90	ug/Kg	☼		07/25/14 03:33	1
Toluene	<5.9		5.9	0.82	ug/Kg	☼		07/25/14 03:33	1
trans-1,2-Dichloroethene	<5.9		5.9	0.81	ug/Kg	☼		07/25/14 03:33	1
trans-1,3-Dichloropropene	<5.9		5.9	1.1	ug/Kg	☼		07/25/14 03:33	1
1,1,1-Trichloroethane	<5.9		5.9	0.88	ug/Kg	☼		07/25/14 03:33	1
1,1,2-Trichloroethane	<5.9		5.9	0.80	ug/Kg	☼		07/25/14 03:33	1
Trichloroethene	<5.9		5.9	0.97	ug/Kg	☼		07/25/14 03:33	1
Vinyl chloride	<5.9		5.9	1.2	ug/Kg	☼		07/25/14 03:33	1
Xylenes, Total	<12		12	0.53	ug/Kg	☼		07/25/14 03:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 122		07/25/14 03:33	1
Dibromofluoromethane	109		75 - 120		07/25/14 03:33	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134		07/25/14 03:33	1
Toluene-d8 (Surr)	104		75 - 122		07/25/14 03:33	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	☼	08/05/14 14:18	08/06/14 03:29	1
1,2-Dichlorobenzene	<200		200	46	ug/Kg	☼	08/05/14 14:18	08/06/14 03:29	1
1,3-Dichlorobenzene	<200		200	44	ug/Kg	☼	08/05/14 14:18	08/06/14 03:29	1
1,4-Dichlorobenzene	<200		200	50	ug/Kg	☼	08/05/14 14:18	08/06/14 03:29	1
2,2'-oxybis[1-chloropropane]	<200		200	45	ug/Kg	☼	08/05/14 14:18	08/06/14 03:29	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81068-1

**Client Sample ID: R14-1(0-4)-072214**

**Lab Sample ID: 500-81068-12**

**Date Collected: 07/22/14 14:45**

**Matrix: Solid**

**Date Received: 07/23/14 10:00**

**Percent Solids: 85.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<390		390	89	ug/Kg	☼	08/05/14 14:18	08/06/14 03:29	1
2,4,6-Trichlorophenol	<390		390	130	ug/Kg	☼	08/05/14 14:18	08/06/14 03:29	1
2,4-Dichlorophenol	<390		390	92	ug/Kg	☼	08/05/14 14:18	08/06/14 03:29	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	08/05/14 14:18	08/06/14 03:29	1
2,4-Dinitrophenol	<780		780	680	ug/Kg	☼	08/05/14 14:18	08/06/14 03:29	1
2,4-Dinitrotoluene	<200		200	62	ug/Kg	☼	08/05/14 14:18	08/06/14 03:29	1
2,6-Dinitrotoluene	<200		200	76	ug/Kg	☼	08/05/14 14:18	08/06/14 03:29	1
2-Chloronaphthalene	<200		200	43	ug/Kg	☼	08/05/14 14:18	08/06/14 03:29	1
2-Chlorophenol	<200		200	66	ug/Kg	☼	08/05/14 14:18	08/06/14 03:29	1
2-Methylnaphthalene	<39		39	7.2	ug/Kg	☼	08/05/14 14:18	08/06/14 03:29	1
2-Methylphenol	<200		200	62	ug/Kg	☼	08/05/14 14:18	08/06/14 03:29	1
2-Nitroaniline	<200		200	52	ug/Kg	☼	08/05/14 14:18	08/06/14 03:29	1
2-Nitrophenol	<390		390	92	ug/Kg	☼	08/05/14 14:18	08/06/14 03:29	1
3 & 4 Methylphenol	<200		200	65	ug/Kg	☼	08/05/14 14:18	08/06/14 03:29	1
3,3'-Dichlorobenzidine	<200		200	54	ug/Kg	☼	08/05/14 14:18	08/06/14 03:29	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	08/05/14 14:18	08/06/14 03:29	1
4,6-Dinitro-2-methylphenol	<390		390	310	ug/Kg	☼	08/05/14 14:18	08/06/14 03:29	1
4-Bromophenyl phenyl ether	<200		200	51	ug/Kg	☼	08/05/14 14:18	08/06/14 03:29	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	08/05/14 14:18	08/06/14 03:29	1
4-Chloroaniline	<780		780	180	ug/Kg	☼	08/05/14 14:18	08/06/14 03:29	1
4-Chlorophenyl phenyl ether	<200		200	45	ug/Kg	☼	08/05/14 14:18	08/06/14 03:29	1
4-Nitroaniline	<390		390	160	ug/Kg	☼	08/05/14 14:18	08/06/14 03:29	1
4-Nitrophenol	<780		780	370	ug/Kg	☼	08/05/14 14:18	08/06/14 03:29	1
Acenaphthene	<39		39	7.0	ug/Kg	☼	08/05/14 14:18	08/06/14 03:29	1
Acenaphthylene	<39		39	5.1	ug/Kg	☼	08/05/14 14:18	08/06/14 03:29	1
Anthracene	<39		39	6.5	ug/Kg	☼	08/05/14 14:18	08/06/14 03:29	1
<b>Benzo[a]anthracene</b>	<b>7.9 J</b>		39	5.2	ug/Kg	☼	08/05/14 14:18	08/06/14 03:29	1
Benzo[a]pyrene	<39		39	7.5	ug/Kg	☼	08/05/14 14:18	08/06/14 03:29	1
<b>Benzo[b]fluoranthene</b>	<b>9.8 J</b>		39	8.4	ug/Kg	☼	08/05/14 14:18	08/06/14 03:29	1
Benzo[g,h,i]perylene	<39		39	13	ug/Kg	☼	08/05/14 14:18	08/06/14 03:29	1
Benzo[k]fluoranthene	<39		39	11	ug/Kg	☼	08/05/14 14:18	08/06/14 03:29	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	☼	08/05/14 14:18	08/06/14 03:29	1
Bis(2-chloroethyl)ether	<200		200	58	ug/Kg	☼	08/05/14 14:18	08/06/14 03:29	1
Bis(2-ethylhexyl) phthalate	<200		200	71	ug/Kg	☼	08/05/14 14:18	08/06/14 03:29	1
Butyl benzyl phthalate	<200		200	74	ug/Kg	☼	08/05/14 14:18	08/06/14 03:29	1
Carbazole	<200		200	100	ug/Kg	☼	08/05/14 14:18	08/06/14 03:29	1
Chrysene	<39		39	11	ug/Kg	☼	08/05/14 14:18	08/06/14 03:29	1
Dibenz(a,h)anthracene	<39		39	7.5	ug/Kg	☼	08/05/14 14:18	08/06/14 03:29	1
Dibenzofuran	<200		200	46	ug/Kg	☼	08/05/14 14:18	08/06/14 03:29	1
Diethyl phthalate	<200		200	66	ug/Kg	☼	08/05/14 14:18	08/06/14 03:29	1
Dimethyl phthalate	<200		200	51	ug/Kg	☼	08/05/14 14:18	08/06/14 03:29	1
Di-n-butyl phthalate	<200		200	59	ug/Kg	☼	08/05/14 14:18	08/06/14 03:29	1
Di-n-octyl phthalate	<200		200	63	ug/Kg	☼	08/05/14 14:18	08/06/14 03:29	1
<b>Fluoranthene</b>	<b>17 J</b>		39	7.2	ug/Kg	☼	08/05/14 14:18	08/06/14 03:29	1
Fluorene	<39		39	5.5	ug/Kg	☼	08/05/14 14:18	08/06/14 03:29	1
Hexachlorobenzene	<78		78	9.0	ug/Kg	☼	08/05/14 14:18	08/06/14 03:29	1
Hexachlorobutadiene	<200		200	61	ug/Kg	☼	08/05/14 14:18	08/06/14 03:29	1
Hexachlorocyclopentadiene	<780		780	220	ug/Kg	☼	08/05/14 14:18	08/06/14 03:29	1
Hexachloroethane	<200		200	59	ug/Kg	☼	08/05/14 14:18	08/06/14 03:29	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81068-1

**Client Sample ID: R14-1(0-4)-072214**

**Lab Sample ID: 500-81068-12**

Date Collected: 07/22/14 14:45

Matrix: Solid

Date Received: 07/23/14 10:00

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<39		39	10	ug/Kg	☼	08/05/14 14:18	08/06/14 03:29	1
Isophorone	<200		200	44	ug/Kg	☼	08/05/14 14:18	08/06/14 03:29	1
Naphthalene	<39		39	6.0	ug/Kg	☼	08/05/14 14:18	08/06/14 03:29	1
Nitrobenzene	<39		39	9.7	ug/Kg	☼	08/05/14 14:18	08/06/14 03:29	1
N-Nitrosodi-n-propylamine	<200		200	48	ug/Kg	☼	08/05/14 14:18	08/06/14 03:29	1
N-Nitrosodiphenylamine	<200		200	46	ug/Kg	☼	08/05/14 14:18	08/06/14 03:29	1
Pentachlorophenol	<780		780	620	ug/Kg	☼	08/05/14 14:18	08/06/14 03:29	1
<b>Phenanthrene</b>	<b>11</b>	<b>J</b>	39	5.4	ug/Kg	☼	08/05/14 14:18	08/06/14 03:29	1
Phenol	<200		200	86	ug/Kg	☼	08/05/14 14:18	08/06/14 03:29	1
<b>Pyrene</b>	<b>14</b>	<b>J</b>	39	7.7	ug/Kg	☼	08/05/14 14:18	08/06/14 03:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	66		35 - 137				08/05/14 14:18	08/06/14 03:29	1
2-Fluorobiphenyl	43		25 - 119				08/05/14 14:18	08/06/14 03:29	1
2-Fluorophenol	45		25 - 110				08/05/14 14:18	08/06/14 03:29	1
Nitrobenzene-d5	41		25 - 115				08/05/14 14:18	08/06/14 03:29	1
Phenol-d5	47		31 - 110				08/05/14 14:18	08/06/14 03:29	1
Terphenyl-d14	68		36 - 134				08/05/14 14:18	08/06/14 03:29	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		08/01/14 09:00	08/01/14 21:56	1
<b>Barium</b>	<b>0.36</b>	<b>J</b>	0.50	0.050	mg/L		08/01/14 09:00	08/01/14 21:56	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/01/14 09:00	08/01/14 21:56	1
<b>Cadmium</b>	<b>0.0024</b>	<b>J</b>	0.0050	0.0020	mg/L		08/01/14 09:00	08/01/14 21:56	1
Chromium	<0.025		0.025	0.010	mg/L		08/01/14 09:00	08/01/14 21:56	1
<b>Cobalt</b>	<b>0.028</b>		0.025	0.010	mg/L		08/01/14 09:00	08/01/14 21:56	1
<b>Copper</b>	<b>0.031</b>		0.025	0.010	mg/L		08/01/14 09:00	08/01/14 21:56	1
Iron	<0.20		0.20	0.20	mg/L		08/01/14 09:00	08/01/14 21:56	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/01/14 09:00	08/01/14 21:56	1
<b>Manganese</b>	<b>5.2</b>		0.025	0.010	mg/L		08/01/14 09:00	08/01/14 21:56	1
<b>Nickel</b>	<b>0.026</b>		0.025	0.010	mg/L		08/01/14 09:00	08/01/14 21:56	1
<b>Selenium</b>	<b>0.016</b>	<b>J B</b>	0.050	0.010	mg/L		08/01/14 09:00	08/01/14 21:56	1
Silver	<0.025		0.025	0.010	mg/L		08/01/14 09:00	08/01/14 21:56	1
<b>Zinc</b>	<b>0.052</b>	<b>J</b>	0.10	0.020	mg/L		08/01/14 09:00	08/01/14 21:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.051</b>		0.050	0.010	mg/L		07/30/14 09:15	07/31/14 20:21	1
<b>Barium</b>	<b>0.48</b>	<b>J</b>	0.50	0.050	mg/L		07/30/14 09:15	07/31/14 20:21	1
<b>Beryllium</b>	<b>0.0055</b>		0.0040	0.0040	mg/L		07/30/14 09:15	07/31/14 20:21	1
<b>Cadmium</b>	<b>0.0035</b>	<b>J</b>	0.0050	0.0020	mg/L		07/30/14 09:15	07/31/14 20:21	1
<b>Chromium</b>	<b>0.13</b>		0.025	0.010	mg/L		07/30/14 09:15	07/31/14 20:21	1
<b>Cobalt</b>	<b>0.058</b>		0.025	0.010	mg/L		07/30/14 09:15	07/31/14 20:21	1
<b>Copper</b>	<b>0.20</b>		0.025	0.010	mg/L		07/30/14 09:15	07/31/14 20:21	1
<b>Iron</b>	<b>140</b>		0.20	0.20	mg/L		07/30/14 09:15	07/31/14 20:21	1
<b>Lead</b>	<b>0.089</b>		0.0075	0.0075	mg/L		07/30/14 09:15	07/31/14 20:21	1
<b>Manganese</b>	<b>1.2</b>		0.025	0.010	mg/L		07/30/14 09:15	08/01/14 14:57	1
<b>Nickel</b>	<b>0.17</b>		0.025	0.010	mg/L		07/30/14 09:15	07/31/14 20:21	1
Selenium	<0.050		0.050	0.010	mg/L		07/30/14 09:15	07/31/14 20:21	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81068-1

**Client Sample ID: R14-1(0-4)-072214**

**Lab Sample ID: 500-81068-12**

Date Collected: 07/22/14 14:45

Matrix: Solid

Date Received: 07/23/14 10:00

**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		07/30/14 09:15	07/31/14 20:21	1
Zinc	0.34		0.10	0.020	mg/L		07/30/14 09:15	07/31/14 20:21	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.47	mg/Kg	☼	07/30/14 16:30	07/31/14 22:50	1
Arsenic	6.8		0.58	0.12	mg/Kg	☼	07/30/14 16:30	07/31/14 22:50	1
Barium	45		0.58	0.062	mg/Kg	☼	07/30/14 16:30	07/31/14 22:50	1
Beryllium	0.64		0.23	0.046	mg/Kg	☼	07/30/14 16:30	07/31/14 22:50	1
Cadmium	0.11	J B	0.12	0.015	mg/Kg	☼	07/30/14 16:30	07/31/14 22:50	1
Calcium	120000	B	120	31	mg/Kg	☼	07/30/14 16:30	08/01/14 18:32	10
Chromium	17	B	0.58	0.067	mg/Kg	☼	07/30/14 16:30	07/31/14 22:50	1
Cobalt	11		0.29	0.058	mg/Kg	☼	07/30/14 16:30	08/01/14 18:27	1
Copper	22		0.58	0.12	mg/Kg	☼	07/30/14 16:30	07/31/14 22:50	1
Iron	18000		12	4.8	mg/Kg	☼	07/30/14 16:30	07/31/14 22:50	1
Lead	13		0.29	0.087	mg/Kg	☼	07/30/14 16:30	07/31/14 22:50	1
Magnesium	34000	B	5.8	1.2	mg/Kg	☼	07/30/14 16:30	07/31/14 22:50	1
Manganese	450	B	0.58	0.12	mg/Kg	☼	07/30/14 16:30	07/31/14 22:50	1
Nickel	27		0.58	0.12	mg/Kg	☼	07/30/14 16:30	07/31/14 22:50	1
Potassium	2100		29	1.7	mg/Kg	☼	07/30/14 16:30	07/31/14 22:50	1
Selenium	0.43	J	0.58	0.21	mg/Kg	☼	07/30/14 16:30	07/31/14 22:50	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	07/30/14 16:30	07/31/14 22:50	1
Sodium	760	B	58	7.8	mg/Kg	☼	07/30/14 16:30	08/01/14 18:27	1
Thallium	<0.58		0.58	0.25	mg/Kg	☼	07/30/14 16:30	07/31/14 22:50	1
Vanadium	19		0.29	0.043	mg/Kg	☼	07/30/14 16:30	07/31/14 22:50	1
Zinc	56		1.2	0.23	mg/Kg	☼	07/30/14 16:30	07/31/14 22:50	1

**Method: 7470A - Mercury (CVAA) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		08/01/14 13:11	08/04/14 14:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.30		0.20	0.20	ug/L		07/30/14 12:00	07/31/14 09:18	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	61		18	7.0	ug/Kg	☼	07/30/14 12:00	07/31/14 08:57	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.42		0.200	0.200	SU			07/30/14 13:57	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81068-1

## 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
F2	MS/MSD RPD exceeds control limits

### Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F3	Duplicate RPD exceeds the control limit
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.
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 - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81068-1

## 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 TESTING

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

Report To (optional)  
Contact: S. Babusankumar  
Company: Weston Solutions Inc.  
Address: 300 Plaza Circle, Ste 202  
Address: Munchehain, FL 60060  
Phone: 224-864-7850  
Fax: 224-864-7236  
E-Mail:

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

## Chain of Custody Record

Lab Job #: 500-81068  
Chain of Custody Number: \_\_\_\_\_  
Page 4 of 4  
Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter		Matrix		Comments	
<u>Weston</u>											
Project Name		Lab Project #		# of Containers		Total Metals		Te-P/SPUP Metals		pH	
<u>FDOT-046</u>						<u>NOCs</u>		<u>NOCs</u>			
Project Location/State		Sampler		Date		Time		Matrix		Preservative Key	
<u>Lake County, IL</u>		<u>T. Walker</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	
Lab ID		MS/MSD		Sample ID		Sampling		Matrix		Comments	
<u>11</u>		<u>R12-1(0-4)-072214</u>		<u>7-22-14</u>	<u>1435</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>12</u>		<u>R14-1(0-6)-072214</u>		<u>↓</u>	<u>1445</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>
<u>13</u>		<u>6W-1(0-4)-072214</u>		<u>↓</u>	<u>1510</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>
<u>14</u>		<u>6W-2(0-4)-072214</u>		<u>↓</u>	<u>1520</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>
<u>15</u>		<u>6W-2(0-4)-072214D</u>		<u>7-22-14</u>	<u>1520</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<del><u>7-22-14</u></del>											

Turnaround Time Required (Business Days)

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

Sample Disposal

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

Relinquished By <u>T. Walker</u>	Company <u>Weston</u>	Date <u>7-27-14</u>	Time <u>1545</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>7/23/14</u>	Time <u>1545</u>
Relinquished By <u>[Signature]</u>	Company <u>JA</u>	Date <u>7/22/14</u>	Time <u>835</u>	Received By <u>[Signature]</u>	Company <u>JA</u>	Date <u>7/23/14</u>	Time <u>0835</u>
Relinquished By <u>[Signature]</u>	Company <u>JA</u>	Date <u>7/23/14</u>	Time <u>1000</u>	Received By <u>[Signature]</u>	Company <u>JA</u>	Date <u>7/23/14</u>	Time <u>1000</u>

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 541 (Grand Ave) at Fairfield Rd Office Phone Number, if available:

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

2400 block of W. Grand Ave

City: Lake Villa 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: 42.415418087 Longitude: -88.103905445

(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 541 (Grand Ave) at Fairfield Rd  
Latitude: 42.415418087 Longitude: -88.103905445

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 GW-1 AND GW-2 WERE SAMPLED ADJACENT TO ISGS SITE No. 2732-15. 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: 500-81068-1

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

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

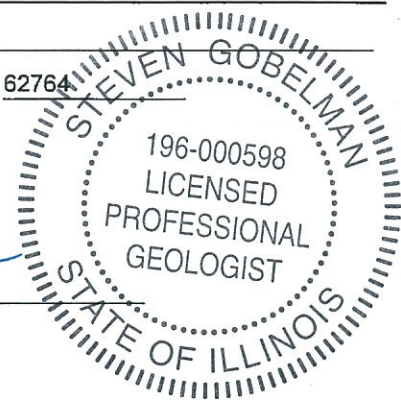
**Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))**

Company Name: Illinois Department of Transportation  
Street Address: 2300 South Dirksen Parkway  
City: Springfield State: IL Zip Code: 62764  
Phone: 217-785-4246  
Steven Gobelman, P.E., L.P.G.

Printed Name:

[Signature]  
Licensed Professional Engineer or  
Licensed Professional Geologist Signature:

2/25/15  
Date:



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

**Summary Table of ISGS Site No. 2732-15**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAP 541 (IL Route 132; Grand Avenue) at Fairfield Road**  
**Unincorporated Lake County, Illinois**

Field Sample ID	GW-1(0-4)-072214	GW-2(0-4)-072214	GW-2(0-4)-072214D	Soil Reference Concentrations <sup>A</sup>
Sample Date	7/22/2014	7/22/2014	7/22/2014	
Location ID	GW-1	GW-2	GW-2	
Depth	0 - 4	0 - 4	0 - 4	
ISGS Site Number	2732-15	2732-15	2732-15	
<b>Parameter</b>				
Laboratory pH (standard units)	8.28	7.55	7.66	<6.25, >9.0
<b>VOCs (ug/kg)</b>	<b>None Detected</b>			
<b>SVOCs (ug/kg)</b>	<b>None Detected</b>			
<b>Total Metals (mg/kg)</b>				
Arsenic, Total	6.1 J-	5.5 J-	6.7 J-	11.3/13.0
Barium, Total	68 J	64 J	49 J	1500
Beryllium, Total	0.74 J	0.66 J	0.57 J	22
Cadmium, Total	0.21 B	ND	0.18 B	5.2
Chromium, Total	19 J	17 J	17 J	21
Cobalt, Total	11 J	12 J	12 J	20
Copper, Total	19 J	16 J	21 J	2900
Iron, Total	17000 J	17000 J	19000 J	15000/15900
Lead, Total	35 J	34 J	61 J	107
Magnesium, Total	5500 J	7500 J	16000 J	325000
Manganese, Total	370 J	560 J	470 J	630/636
Mercury, Total	0.037	0.036	0.031	0.89
Nickel, Total	26 J	21 J	23 J	100
Selenium, Total	0.4 J	0.52 J	0.32 J	1.3
<b>TCLP Metals (mg/l)</b>				
Arsenic, TCLP	ND	ND	ND	0.05
Barium, TCLP	0.38 J	0.3 J	0.31 J	2
Beryllium, TCLP	ND	ND	ND	0.004
Cadmium, TCLP	ND	ND	ND	0.005
Chromium, TCLP	ND	ND	ND	0.1
Cobalt, TCLP	0.019 J	ND	ND	1
Copper, TCLP	0.011 J	0.017 J	0.025	0.65
Iron, TCLP	ND	ND	ND	5
Lead, TCLP	ND	ND	ND	0.0075
Manganese, TCLP	8.6	0.28	0.2	0.15
Mercury, TCLP	ND	ND	ND	0.002
Nickel, TCLP	0.014 J	ND	ND	0.1
Selenium, TCLP	ND	ND	ND	0.05
<b>SPLP Metals (mg/l)</b>				
Arsenic, SPLP	0.046 J	0.041 J	0.027 J	0.05
Barium, SPLP	0.77	0.72	0.52	2
Beryllium, SPLP	0.0079	0.0075	0.0055	0.004
Cadmium, SPLP	0.0053	0.0051	0.0036 J	0.005
Chromium, SPLP	0.2	0.21	0.16	0.1
Cobalt, SPLP	0.066	0.052	0.039	1
Copper, SPLP	0.21	0.18	0.14	0.65
Iron, SPLP	190	200	140	5
Lead, SPLP	0.22	0.14	0.23	0.0075
Manganese, SPLP	2.5	1.7	1.3	0.15
Mercury, SPLP	0.00033	0.00027	0.0002	0.002
Nickel, SPLP	0.18	0.2	0.14	0.1
Selenium, SPLP	0.011 J	0.011 J	ND	0.05

**Notes:**

--- - not applicable or value not available.

<sup>A</sup> - 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: 500-81068-1  
Client Project/Site: IDOT - IL Rt. 132 - WO 046

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

Attn: Mr. S. Babusukumar



Authorized for release by:  
8/6/2014 1:51:19 PM

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

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://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
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- 13
- 14
- 15

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81068-1

**Client Sample ID: GW-1(0-4)-072214**

**Lab Sample ID: 500-81068-13**

**Date Collected: 07/22/14 15:10**

**Matrix: Solid**

**Date Received: 07/23/14 10:00**

**Percent Solids: 81.4**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>44</b>		6.1	2.7	ug/Kg	☼		07/25/14 03:57	1
Benzene	<6.1		6.1	0.84	ug/Kg	☼		07/25/14 03:57	1
Bromodichloromethane	<6.1		6.1	1.1	ug/Kg	☼		07/25/14 03:57	1
Bromoform	<6.1		6.1	1.4	ug/Kg	☼		07/25/14 03:57	1
Bromomethane	<6.1		6.1	1.9	ug/Kg	☼		07/25/14 03:57	1
Carbon disulfide	<6.1		6.1	0.92	ug/Kg	☼		07/25/14 03:57	1
Carbon tetrachloride	<6.1		6.1	1.1	ug/Kg	☼		07/25/14 03:57	1
Chlorobenzene	<6.1		6.1	0.62	ug/Kg	☼		07/25/14 03:57	1
Chloroethane	<6.1		6.1	1.7	ug/Kg	☼		07/25/14 03:57	1
Chloroform	<6.1		6.1	0.71	ug/Kg	☼		07/25/14 03:57	1
Chloromethane	<6.1		6.1	1.3	ug/Kg	☼		07/25/14 03:57	1
cis-1,2-Dichloroethene	<6.1		6.1	0.87	ug/Kg	☼		07/25/14 03:57	1
cis-1,3-Dichloropropene	<6.1		6.1	0.81	ug/Kg	☼		07/25/14 03:57	1
Dibromochloromethane	<6.1		6.1	1.1	ug/Kg	☼		07/25/14 03:57	1
1,1-Dichloroethane	<6.1		6.1	0.97	ug/Kg	☼		07/25/14 03:57	1
1,2-Dichloroethane	<6.1		6.1	0.91	ug/Kg	☼		07/25/14 03:57	1
1,1-Dichloroethene	<6.1		6.1	0.99	ug/Kg	☼		07/25/14 03:57	1
1,2-Dichloropropane	<6.1		6.1	0.93	ug/Kg	☼		07/25/14 03:57	1
1,3-Dichloropropene, Total	<6.1		6.1	0.81	ug/Kg	☼		07/25/14 03:57	1
Ethylbenzene	<6.1		6.1	1.2	ug/Kg	☼		07/25/14 03:57	1
2-Hexanone	<6.1		6.1	1.8	ug/Kg	☼		07/25/14 03:57	1
Methylene Chloride	<6.1		6.1	1.7	ug/Kg	☼		07/25/14 03:57	1
<b>Methyl Ethyl Ketone</b>	<b>13</b>		6.1	2.2	ug/Kg	☼		07/25/14 03:57	1
methyl isobutyl ketone	<6.1		6.1	1.6	ug/Kg	☼		07/25/14 03:57	1
Methyl tert-butyl ether	<6.1		6.1	1.0	ug/Kg	☼		07/25/14 03:57	1
Styrene	<6.1		6.1	0.81	ug/Kg	☼		07/25/14 03:57	1
1,1,2,2-Tetrachloroethane	<6.1		6.1	1.2	ug/Kg	☼		07/25/14 03:57	1
Tetrachloroethene	<6.1		6.1	0.94	ug/Kg	☼		07/25/14 03:57	1
Toluene	<6.1		6.1	0.86	ug/Kg	☼		07/25/14 03:57	1
trans-1,2-Dichloroethene	<6.1		6.1	0.85	ug/Kg	☼		07/25/14 03:57	1
trans-1,3-Dichloropropene	<6.1		6.1	1.1	ug/Kg	☼		07/25/14 03:57	1
1,1,1-Trichloroethane	<6.1		6.1	0.92	ug/Kg	☼		07/25/14 03:57	1
1,1,2-Trichloroethane	<6.1		6.1	0.84	ug/Kg	☼		07/25/14 03:57	1
Trichloroethene	<6.1		6.1	1.0	ug/Kg	☼		07/25/14 03:57	1
Vinyl chloride	<6.1		6.1	1.3	ug/Kg	☼		07/25/14 03:57	1
Xylenes, Total	<12		12	0.56	ug/Kg	☼		07/25/14 03:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 122		07/25/14 03:57	1
Dibromofluoromethane	113		75 - 120		07/25/14 03:57	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134		07/25/14 03:57	1
Toluene-d8 (Surr)	102		75 - 122		07/25/14 03:57	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	☼	08/05/14 14:18	08/06/14 03:49	1
1,2-Dichlorobenzene	<200		200	48	ug/Kg	☼	08/05/14 14:18	08/06/14 03:49	1
1,3-Dichlorobenzene	<200		200	45	ug/Kg	☼	08/05/14 14:18	08/06/14 03:49	1
1,4-Dichlorobenzene	<200		200	52	ug/Kg	☼	08/05/14 14:18	08/06/14 03:49	1
2,2'-oxybis[1-chloropropane]	<200		200	47	ug/Kg	☼	08/05/14 14:18	08/06/14 03:49	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81068-1

**Client Sample ID: GW-1(0-4)-072214**

**Lab Sample ID: 500-81068-13**

Date Collected: 07/22/14 15:10

Matrix: Solid

Date Received: 07/23/14 10:00

Percent Solids: 81.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<400		400	92	ug/Kg	☼	08/05/14 14:18	08/06/14 03:49	1
2,4,6-Trichlorophenol	<400		400	140	ug/Kg	☼	08/05/14 14:18	08/06/14 03:49	1
2,4-Dichlorophenol	<400		400	96	ug/Kg	☼	08/05/14 14:18	08/06/14 03:49	1
2,4-Dimethylphenol	<400		400	150	ug/Kg	☼	08/05/14 14:18	08/06/14 03:49	1
2,4-Dinitrophenol	<810		810	710	ug/Kg	☼	08/05/14 14:18	08/06/14 03:49	1
2,4-Dinitrotoluene	<200		200	64	ug/Kg	☼	08/05/14 14:18	08/06/14 03:49	1
2,6-Dinitrotoluene	<200		200	79	ug/Kg	☼	08/05/14 14:18	08/06/14 03:49	1
2-Chloronaphthalene	<200		200	45	ug/Kg	☼	08/05/14 14:18	08/06/14 03:49	1
2-Chlorophenol	<200		200	69	ug/Kg	☼	08/05/14 14:18	08/06/14 03:49	1
2-Methylnaphthalene	<40		40	7.4	ug/Kg	☼	08/05/14 14:18	08/06/14 03:49	1
2-Methylphenol	<200		200	65	ug/Kg	☼	08/05/14 14:18	08/06/14 03:49	1
2-Nitroaniline	<200		200	54	ug/Kg	☼	08/05/14 14:18	08/06/14 03:49	1
2-Nitrophenol	<400		400	95	ug/Kg	☼	08/05/14 14:18	08/06/14 03:49	1
3 & 4 Methylphenol	<200		200	67	ug/Kg	☼	08/05/14 14:18	08/06/14 03:49	1
3,3'-Dichlorobenzidine	<200		200	57	ug/Kg	☼	08/05/14 14:18	08/06/14 03:49	1
3-Nitroaniline	<400		400	130	ug/Kg	☼	08/05/14 14:18	08/06/14 03:49	1
4,6-Dinitro-2-methylphenol	<400		400	320	ug/Kg	☼	08/05/14 14:18	08/06/14 03:49	1
4-Bromophenyl phenyl ether	<200		200	53	ug/Kg	☼	08/05/14 14:18	08/06/14 03:49	1
4-Chloro-3-methylphenol	<400		400	140	ug/Kg	☼	08/05/14 14:18	08/06/14 03:49	1
4-Chloroaniline	<810		810	190	ug/Kg	☼	08/05/14 14:18	08/06/14 03:49	1
4-Chlorophenyl phenyl ether	<200		200	47	ug/Kg	☼	08/05/14 14:18	08/06/14 03:49	1
4-Nitroaniline	<400		400	170	ug/Kg	☼	08/05/14 14:18	08/06/14 03:49	1
4-Nitrophenol	<810		810	380	ug/Kg	☼	08/05/14 14:18	08/06/14 03:49	1
Acenaphthene	<40		40	7.3	ug/Kg	☼	08/05/14 14:18	08/06/14 03:49	1
Acenaphthylene	<40		40	5.3	ug/Kg	☼	08/05/14 14:18	08/06/14 03:49	1
Anthracene	<40		40	6.7	ug/Kg	☼	08/05/14 14:18	08/06/14 03:49	1
Benzo[a]anthracene	<40		40	5.4	ug/Kg	☼	08/05/14 14:18	08/06/14 03:49	1
Benzo[a]pyrene	<40		40	7.8	ug/Kg	☼	08/05/14 14:18	08/06/14 03:49	1
Benzo[b]fluoranthene	<40		40	8.7	ug/Kg	☼	08/05/14 14:18	08/06/14 03:49	1
Benzo[g,h,i]perylene	<40		40	13	ug/Kg	☼	08/05/14 14:18	08/06/14 03:49	1
Benzo[k]fluoranthene	<40		40	12	ug/Kg	☼	08/05/14 14:18	08/06/14 03:49	1
Bis(2-chloroethoxy)methane	<200		200	41	ug/Kg	☼	08/05/14 14:18	08/06/14 03:49	1
Bis(2-chloroethyl)ether	<200		200	61	ug/Kg	☼	08/05/14 14:18	08/06/14 03:49	1
Bis(2-ethylhexyl) phthalate	<200		200	74	ug/Kg	☼	08/05/14 14:18	08/06/14 03:49	1
Butyl benzyl phthalate	<200		200	77	ug/Kg	☼	08/05/14 14:18	08/06/14 03:49	1
Carbazole	<200		200	100	ug/Kg	☼	08/05/14 14:18	08/06/14 03:49	1
Chrysene	<40		40	11	ug/Kg	☼	08/05/14 14:18	08/06/14 03:49	1
Dibenz(a,h)anthracene	<40		40	7.8	ug/Kg	☼	08/05/14 14:18	08/06/14 03:49	1
Dibenzofuran	<200		200	47	ug/Kg	☼	08/05/14 14:18	08/06/14 03:49	1
Diethyl phthalate	<200		200	68	ug/Kg	☼	08/05/14 14:18	08/06/14 03:49	1
Dimethyl phthalate	<200		200	53	ug/Kg	☼	08/05/14 14:18	08/06/14 03:49	1
Di-n-butyl phthalate	<200		200	61	ug/Kg	☼	08/05/14 14:18	08/06/14 03:49	1
Di-n-octyl phthalate	<200		200	66	ug/Kg	☼	08/05/14 14:18	08/06/14 03:49	1
<b>Fluoranthene</b>	<b>9.4</b>	<b>J</b>	40	7.5	ug/Kg	☼	08/05/14 14:18	08/06/14 03:49	1
Fluorene	<40		40	5.7	ug/Kg	☼	08/05/14 14:18	08/06/14 03:49	1
Hexachlorobenzene	<81		81	9.4	ug/Kg	☼	08/05/14 14:18	08/06/14 03:49	1
Hexachlorobutadiene	<200		200	63	ug/Kg	☼	08/05/14 14:18	08/06/14 03:49	1
Hexachlorocyclopentadiene	<810		810	230	ug/Kg	☼	08/05/14 14:18	08/06/14 03:49	1
Hexachloroethane	<200		200	61	ug/Kg	☼	08/05/14 14:18	08/06/14 03:49	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81068-1

**Client Sample ID: GW-1(0-4)-072214**

**Lab Sample ID: 500-81068-13**

**Date Collected: 07/22/14 15:10**

**Matrix: Solid**

**Date Received: 07/23/14 10:00**

**Percent Solids: 81.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<40		40	10	ug/Kg	☼	08/05/14 14:18	08/06/14 03:49	1
Isophorone	<200		200	45	ug/Kg	☼	08/05/14 14:18	08/06/14 03:49	1
Naphthalene	<40		40	6.2	ug/Kg	☼	08/05/14 14:18	08/06/14 03:49	1
Nitrobenzene	<40		40	10	ug/Kg	☼	08/05/14 14:18	08/06/14 03:49	1
N-Nitrosodi-n-propylamine	<200		200	49	ug/Kg	☼	08/05/14 14:18	08/06/14 03:49	1
N-Nitrosodiphenylamine	<200		200	48	ug/Kg	☼	08/05/14 14:18	08/06/14 03:49	1
Pentachlorophenol	<810		810	650	ug/Kg	☼	08/05/14 14:18	08/06/14 03:49	1
Phenanthrene	<40		40	5.6	ug/Kg	☼	08/05/14 14:18	08/06/14 03:49	1
Phenol	<200		200	90	ug/Kg	☼	08/05/14 14:18	08/06/14 03:49	1
<b>Pyrene</b>	<b>10</b>	<b>J</b>	40	8.0	ug/Kg	☼	08/05/14 14:18	08/06/14 03:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	45		35 - 137	08/05/14 14:18	08/06/14 03:49	1
2-Fluorobiphenyl	28		25 - 119	08/05/14 14:18	08/06/14 03:49	1
2-Fluorophenol	29		25 - 110	08/05/14 14:18	08/06/14 03:49	1
Nitrobenzene-d5	26		25 - 115	08/05/14 14:18	08/06/14 03:49	1
Phenol-d5	31		31 - 110	08/05/14 14:18	08/06/14 03:49	1
Terphenyl-d14	47		36 - 134	08/05/14 14:18	08/06/14 03:49	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		08/01/14 09:00	08/01/14 22:02	1
<b>Barium</b>	<b>0.38</b>	<b>J</b>	0.50	0.050	mg/L		08/01/14 09:00	08/01/14 22:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/01/14 09:00	08/01/14 22:02	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/01/14 09:00	08/01/14 22:02	1
Chromium	<0.025		0.025	0.010	mg/L		08/01/14 09:00	08/01/14 22:02	1
<b>Cobalt</b>	<b>0.019</b>	<b>J</b>	0.025	0.010	mg/L		08/01/14 09:00	08/01/14 22:02	1
<b>Copper</b>	<b>0.011</b>	<b>J</b>	0.025	0.010	mg/L		08/01/14 09:00	08/01/14 22:02	1
Iron	<0.20		0.20	0.20	mg/L		08/01/14 09:00	08/01/14 22:02	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/01/14 09:00	08/01/14 22:02	1
<b>Manganese</b>	<b>8.6</b>		0.025	0.010	mg/L		08/01/14 09:00	08/01/14 22:02	1
<b>Nickel</b>	<b>0.014</b>	<b>J</b>	0.025	0.010	mg/L		08/01/14 09:00	08/01/14 22:02	1
<b>Selenium</b>	<b>0.022</b>	<b>J B</b>	0.050	0.010	mg/L		08/01/14 09:00	08/01/14 22:02	1
Silver	<0.025		0.025	0.010	mg/L		08/01/14 09:00	08/01/14 22:02	1
<b>Zinc</b>	<b>0.049</b>	<b>J</b>	0.10	0.020	mg/L		08/01/14 09:00	08/01/14 22:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.046</b>	<b>J</b>	0.050	0.010	mg/L		07/30/14 09:15	07/31/14 20:27	1
<b>Barium</b>	<b>0.77</b>		0.50	0.050	mg/L		07/30/14 09:15	07/31/14 20:27	1
<b>Beryllium</b>	<b>0.0079</b>		0.0040	0.0040	mg/L		07/30/14 09:15	07/31/14 20:27	1
<b>Cadmium</b>	<b>0.0053</b>		0.0050	0.0020	mg/L		07/30/14 09:15	07/31/14 20:27	1
<b>Chromium</b>	<b>0.20</b>		0.025	0.010	mg/L		07/30/14 09:15	07/31/14 20:27	1
<b>Cobalt</b>	<b>0.066</b>		0.025	0.010	mg/L		07/30/14 09:15	07/31/14 20:27	1
<b>Copper</b>	<b>0.21</b>		0.025	0.010	mg/L		07/30/14 09:15	07/31/14 20:27	1
<b>Iron</b>	<b>190</b>		0.20	0.20	mg/L		07/30/14 09:15	07/31/14 20:27	1
<b>Lead</b>	<b>0.22</b>		0.0075	0.0075	mg/L		07/30/14 09:15	07/31/14 20:27	1
<b>Manganese</b>	<b>2.5</b>		0.025	0.010	mg/L		07/30/14 09:15	08/01/14 15:01	1
<b>Nickel</b>	<b>0.18</b>		0.025	0.010	mg/L		07/30/14 09:15	07/31/14 20:27	1
<b>Selenium</b>	<b>0.011</b>	<b>J</b>	0.050	0.010	mg/L		07/30/14 09:15	07/31/14 20:27	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81068-1

**Client Sample ID: GW-1(0-4)-072214**

**Lab Sample ID: 500-81068-13**

Date Collected: 07/22/14 15:10

Matrix: Solid

Date Received: 07/23/14 10:00

**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		07/30/14 09:15	07/31/14 20:27	1
Zinc	0.51		0.10	0.020	mg/L		07/30/14 09:15	07/31/14 20:27	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.45	mg/Kg	☼	07/30/14 16:30	07/31/14 23:03	1
Arsenic	6.1		0.56	0.11	mg/Kg	☼	07/30/14 16:30	07/31/14 23:03	1
Barium	68		0.56	0.060	mg/Kg	☼	07/30/14 16:30	07/31/14 23:03	1
Beryllium	0.74		0.22	0.045	mg/Kg	☼	07/30/14 16:30	07/31/14 23:03	1
Cadmium	0.21	B	0.11	0.014	mg/Kg	☼	07/30/14 16:30	07/31/14 23:03	1
Calcium	7000	B	11	3.0	mg/Kg	☼	07/30/14 16:30	08/01/14 18:36	1
Chromium	19	B	0.56	0.065	mg/Kg	☼	07/30/14 16:30	07/31/14 23:03	1
Cobalt	11		0.28	0.056	mg/Kg	☼	07/30/14 16:30	08/01/14 18:36	1
Copper	19		0.56	0.11	mg/Kg	☼	07/30/14 16:30	07/31/14 23:03	1
Iron	17000		11	4.6	mg/Kg	☼	07/30/14 16:30	07/31/14 23:03	1
Lead	35		0.28	0.083	mg/Kg	☼	07/30/14 16:30	07/31/14 23:03	1
Magnesium	5500	B	5.6	1.2	mg/Kg	☼	07/30/14 16:30	07/31/14 23:03	1
Manganese	370	B	0.56	0.11	mg/Kg	☼	07/30/14 16:30	07/31/14 23:03	1
Nickel	26		0.56	0.11	mg/Kg	☼	07/30/14 16:30	07/31/14 23:03	1
Potassium	1100		28	1.7	mg/Kg	☼	07/30/14 16:30	07/31/14 23:03	1
Selenium	0.40	J	0.56	0.20	mg/Kg	☼	07/30/14 16:30	07/31/14 23:03	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	07/30/14 16:30	07/31/14 23:03	1
Sodium	3000	B	56	7.5	mg/Kg	☼	07/30/14 16:30	08/01/14 18:36	1
Thallium	<0.56		0.56	0.24	mg/Kg	☼	07/30/14 16:30	07/31/14 23:03	1
Vanadium	27		0.28	0.041	mg/Kg	☼	07/30/14 16:30	07/31/14 23:03	1
Zinc	68		1.1	0.23	mg/Kg	☼	07/30/14 16:30	07/31/14 23:03	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		08/01/14 13:11	08/04/14 14:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.33		0.20	0.20	ug/L		07/30/14 12:00	07/31/14 09:20	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	37		18	7.2	ug/Kg	☼	07/30/14 12:00	07/31/14 08:59	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.28		0.200	0.200	SU			07/30/14 14:00	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81068-1

**Client Sample ID: GW-2(0-4)-072214**

**Lab Sample ID: 500-81068-14**

**Date Collected: 07/22/14 15:20**

**Matrix: Solid**

**Date Received: 07/23/14 10:00**

**Percent Solids: 80.9**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>22</b>		6.2	2.7	ug/Kg	☼		07/25/14 04:21	1
Benzene	<6.2		6.2	0.85	ug/Kg	☼		07/25/14 04:21	1
Bromodichloromethane	<6.2		6.2	1.1	ug/Kg	☼		07/25/14 04:21	1
Bromoform	<6.2		6.2	1.4	ug/Kg	☼		07/25/14 04:21	1
Bromomethane	<6.2		6.2	1.9	ug/Kg	☼		07/25/14 04:21	1
Carbon disulfide	<6.2		6.2	0.92	ug/Kg	☼		07/25/14 04:21	1
Carbon tetrachloride	<6.2		6.2	1.1	ug/Kg	☼		07/25/14 04:21	1
Chlorobenzene	<6.2		6.2	0.63	ug/Kg	☼		07/25/14 04:21	1
Chloroethane	<6.2		6.2	1.7	ug/Kg	☼		07/25/14 04:21	1
Chloroform	<6.2		6.2	0.71	ug/Kg	☼		07/25/14 04:21	1
Chloromethane	<6.2		6.2	1.3	ug/Kg	☼		07/25/14 04:21	1
cis-1,2-Dichloroethene	<6.2		6.2	0.87	ug/Kg	☼		07/25/14 04:21	1
cis-1,3-Dichloropropene	<6.2		6.2	0.81	ug/Kg	☼		07/25/14 04:21	1
Dibromochloromethane	<6.2		6.2	1.1	ug/Kg	☼		07/25/14 04:21	1
1,1-Dichloroethane	<6.2		6.2	0.98	ug/Kg	☼		07/25/14 04:21	1
1,2-Dichloroethane	<6.2		6.2	0.92	ug/Kg	☼		07/25/14 04:21	1
1,1-Dichloroethene	<6.2		6.2	1.0	ug/Kg	☼		07/25/14 04:21	1
1,2-Dichloropropane	<6.2		6.2	0.94	ug/Kg	☼		07/25/14 04:21	1
1,3-Dichloropropene, Total	<6.2		6.2	0.81	ug/Kg	☼		07/25/14 04:21	1
Ethylbenzene	<6.2		6.2	1.2	ug/Kg	☼		07/25/14 04:21	1
2-Hexanone	<6.2		6.2	1.8	ug/Kg	☼		07/25/14 04:21	1
Methylene Chloride	<6.2		6.2	1.7	ug/Kg	☼		07/25/14 04:21	1
<b>Methyl Ethyl Ketone</b>	<b>5.6 J</b>		6.2	2.2	ug/Kg	☼		07/25/14 04:21	1
methyl isobutyl ketone	<6.2		6.2	1.6	ug/Kg	☼		07/25/14 04:21	1
Methyl tert-butyl ether	<6.2		6.2	1.0	ug/Kg	☼		07/25/14 04:21	1
Styrene	<6.2		6.2	0.81	ug/Kg	☼		07/25/14 04:21	1
1,1,2,2-Tetrachloroethane	<6.2		6.2	1.2	ug/Kg	☼		07/25/14 04:21	1
Tetrachloroethene	<6.2		6.2	0.94	ug/Kg	☼		07/25/14 04:21	1
Toluene	<6.2		6.2	0.87	ug/Kg	☼		07/25/14 04:21	1
trans-1,2-Dichloroethene	<6.2		6.2	0.85	ug/Kg	☼		07/25/14 04:21	1
trans-1,3-Dichloropropene	<6.2		6.2	1.1	ug/Kg	☼		07/25/14 04:21	1
1,1,1-Trichloroethane	<6.2		6.2	0.92	ug/Kg	☼		07/25/14 04:21	1
1,1,2-Trichloroethane	<6.2		6.2	0.84	ug/Kg	☼		07/25/14 04:21	1
Trichloroethene	<6.2		6.2	1.0	ug/Kg	☼		07/25/14 04:21	1
Vinyl chloride	<6.2		6.2	1.3	ug/Kg	☼		07/25/14 04:21	1
Xylenes, Total	<12		12	0.56	ug/Kg	☼		07/25/14 04:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 122		07/25/14 04:21	1
Dibromofluoromethane	108		75 - 120		07/25/14 04:21	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 134		07/25/14 04:21	1
Toluene-d8 (Surr)	102		75 - 122		07/25/14 04:21	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	☼	08/05/14 14:18	08/06/14 04:09	1
1,2-Dichlorobenzene	<200		200	47	ug/Kg	☼	08/05/14 14:18	08/06/14 04:09	1
1,3-Dichlorobenzene	<200		200	44	ug/Kg	☼	08/05/14 14:18	08/06/14 04:09	1
1,4-Dichlorobenzene	<200		200	50	ug/Kg	☼	08/05/14 14:18	08/06/14 04:09	1
2,2'-oxybis[1-chloropropane]	<200		200	46	ug/Kg	☼	08/05/14 14:18	08/06/14 04:09	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81068-1

**Client Sample ID: GW-2(0-4)-072214**

**Lab Sample ID: 500-81068-14**

**Date Collected: 07/22/14 15:20**

**Matrix: Solid**

**Date Received: 07/23/14 10:00**

**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	<390		390	90	ug/Kg	☼	08/05/14 14:18	08/06/14 04:09	1
2,4,6-Trichlorophenol	<390		390	130	ug/Kg	☼	08/05/14 14:18	08/06/14 04:09	1
2,4-Dichlorophenol	<390		390	93	ug/Kg	☼	08/05/14 14:18	08/06/14 04:09	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	08/05/14 14:18	08/06/14 04:09	1
2,4-Dinitrophenol	<790		790	690	ug/Kg	☼	08/05/14 14:18	08/06/14 04:09	1
2,4-Dinitrotoluene	<200		200	62	ug/Kg	☼	08/05/14 14:18	08/06/14 04:09	1
2,6-Dinitrotoluene	<200		200	77	ug/Kg	☼	08/05/14 14:18	08/06/14 04:09	1
2-Chloronaphthalene	<200		200	43	ug/Kg	☼	08/05/14 14:18	08/06/14 04:09	1
2-Chlorophenol	<200		200	67	ug/Kg	☼	08/05/14 14:18	08/06/14 04:09	1
2-Methylnaphthalene	<39		39	7.2	ug/Kg	☼	08/05/14 14:18	08/06/14 04:09	1
2-Methylphenol	<200		200	63	ug/Kg	☼	08/05/14 14:18	08/06/14 04:09	1
2-Nitroaniline	<200		200	53	ug/Kg	☼	08/05/14 14:18	08/06/14 04:09	1
2-Nitrophenol	<390		390	93	ug/Kg	☼	08/05/14 14:18	08/06/14 04:09	1
3 & 4 Methylphenol	<200		200	66	ug/Kg	☼	08/05/14 14:18	08/06/14 04:09	1
3,3'-Dichlorobenzidine	<200		200	55	ug/Kg	☼	08/05/14 14:18	08/06/14 04:09	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	08/05/14 14:18	08/06/14 04:09	1
4,6-Dinitro-2-methylphenol	<390		390	320	ug/Kg	☼	08/05/14 14:18	08/06/14 04:09	1
4-Bromophenyl phenyl ether	<200		200	52	ug/Kg	☼	08/05/14 14:18	08/06/14 04:09	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	08/05/14 14:18	08/06/14 04:09	1
4-Chloroaniline	<790		790	180	ug/Kg	☼	08/05/14 14:18	08/06/14 04:09	1
4-Chlorophenyl phenyl ether	<200		200	46	ug/Kg	☼	08/05/14 14:18	08/06/14 04:09	1
4-Nitroaniline	<390		390	160	ug/Kg	☼	08/05/14 14:18	08/06/14 04:09	1
4-Nitrophenol	<790		790	370	ug/Kg	☼	08/05/14 14:18	08/06/14 04:09	1
Acenaphthene	<39		39	7.1	ug/Kg	☼	08/05/14 14:18	08/06/14 04:09	1
Acenaphthylene	<39		39	5.2	ug/Kg	☼	08/05/14 14:18	08/06/14 04:09	1
Anthracene	<39		39	6.6	ug/Kg	☼	08/05/14 14:18	08/06/14 04:09	1
Benzo[a]anthracene	<39		39	5.3	ug/Kg	☼	08/05/14 14:18	08/06/14 04:09	1
Benzo[a]pyrene	<39		39	7.6	ug/Kg	☼	08/05/14 14:18	08/06/14 04:09	1
Benzo[b]fluoranthene	<39		39	8.5	ug/Kg	☼	08/05/14 14:18	08/06/14 04:09	1
Benzo[g,h,i]perylene	<39		39	13	ug/Kg	☼	08/05/14 14:18	08/06/14 04:09	1
Benzo[k]fluoranthene	<39		39	12	ug/Kg	☼	08/05/14 14:18	08/06/14 04:09	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	☼	08/05/14 14:18	08/06/14 04:09	1
Bis(2-chloroethyl)ether	<200		200	59	ug/Kg	☼	08/05/14 14:18	08/06/14 04:09	1
Bis(2-ethylhexyl) phthalate	<200		200	72	ug/Kg	☼	08/05/14 14:18	08/06/14 04:09	1
Butyl benzyl phthalate	<200		200	75	ug/Kg	☼	08/05/14 14:18	08/06/14 04:09	1
Carbazole	<200		200	100	ug/Kg	☼	08/05/14 14:18	08/06/14 04:09	1
Chrysene	<39		39	11	ug/Kg	☼	08/05/14 14:18	08/06/14 04:09	1
Dibenz(a,h)anthracene	<39		39	7.6	ug/Kg	☼	08/05/14 14:18	08/06/14 04:09	1
Dibenzofuran	<200		200	46	ug/Kg	☼	08/05/14 14:18	08/06/14 04:09	1
Diethyl phthalate	<200		200	67	ug/Kg	☼	08/05/14 14:18	08/06/14 04:09	1
Dimethyl phthalate	<200		200	51	ug/Kg	☼	08/05/14 14:18	08/06/14 04:09	1
Di-n-butyl phthalate	<200		200	60	ug/Kg	☼	08/05/14 14:18	08/06/14 04:09	1
Di-n-octyl phthalate	<200		200	64	ug/Kg	☼	08/05/14 14:18	08/06/14 04:09	1
Fluoranthene	<39		39	7.3	ug/Kg	☼	08/05/14 14:18	08/06/14 04:09	1
Fluorene	<39		39	5.5	ug/Kg	☼	08/05/14 14:18	08/06/14 04:09	1
Hexachlorobenzene	<79		79	9.1	ug/Kg	☼	08/05/14 14:18	08/06/14 04:09	1
Hexachlorobutadiene	<200		200	62	ug/Kg	☼	08/05/14 14:18	08/06/14 04:09	1
Hexachlorocyclopentadiene	<790		790	230	ug/Kg	☼	08/05/14 14:18	08/06/14 04:09	1
Hexachloroethane	<200		200	60	ug/Kg	☼	08/05/14 14:18	08/06/14 04:09	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81068-1

**Client Sample ID: GW-2(0-4)-072214**

**Lab Sample ID: 500-81068-14**

**Date Collected: 07/22/14 15:20**

**Matrix: Solid**

**Date Received: 07/23/14 10:00**

**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	<39		39	10	ug/Kg	☼	08/05/14 14:18	08/06/14 04:09	1
Isophorone	<200		200	44	ug/Kg	☼	08/05/14 14:18	08/06/14 04:09	1
Naphthalene	<39		39	6.0	ug/Kg	☼	08/05/14 14:18	08/06/14 04:09	1
Nitrobenzene	<39		39	9.8	ug/Kg	☼	08/05/14 14:18	08/06/14 04:09	1
N-Nitrosodi-n-propylamine	<200		200	48	ug/Kg	☼	08/05/14 14:18	08/06/14 04:09	1
N-Nitrosodiphenylamine	<200		200	46	ug/Kg	☼	08/05/14 14:18	08/06/14 04:09	1
Pentachlorophenol	<790		790	630	ug/Kg	☼	08/05/14 14:18	08/06/14 04:09	1
Phenanthrene	<39		39	5.5	ug/Kg	☼	08/05/14 14:18	08/06/14 04:09	1
Phenol	<200		200	87	ug/Kg	☼	08/05/14 14:18	08/06/14 04:09	1
Pyrene	<39		39	7.8	ug/Kg	☼	08/05/14 14:18	08/06/14 04:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	66		35 - 137				08/05/14 14:18	08/06/14 04:09	1
2-Fluorobiphenyl	48		25 - 119				08/05/14 14:18	08/06/14 04:09	1
2-Fluorophenol	48		25 - 110				08/05/14 14:18	08/06/14 04:09	1
Nitrobenzene-d5	43		25 - 115				08/05/14 14:18	08/06/14 04:09	1
Phenol-d5	51		31 - 110				08/05/14 14:18	08/06/14 04:09	1
Terphenyl-d14	70		36 - 134				08/05/14 14:18	08/06/14 04:09	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		08/01/14 09:00	08/01/14 22:17	1
<b>Barium</b>	<b>0.30</b>	<b>J</b>	0.50	0.050	mg/L		08/01/14 09:00	08/01/14 22:17	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/01/14 09:00	08/01/14 22:17	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/01/14 09:00	08/01/14 22:17	1
Chromium	<0.025		0.025	0.010	mg/L		08/01/14 09:00	08/01/14 22:17	1
Cobalt	<0.025		0.025	0.010	mg/L		08/01/14 09:00	08/01/14 22:17	1
<b>Copper</b>	<b>0.017</b>	<b>J</b>	0.025	0.010	mg/L		08/01/14 09:00	08/01/14 22:17	1
Iron	<0.20		0.20	0.20	mg/L		08/01/14 09:00	08/01/14 22:17	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/01/14 09:00	08/01/14 22:17	1
<b>Manganese</b>	<b>0.28</b>		0.025	0.010	mg/L		08/01/14 09:00	08/01/14 22:17	1
Nickel	<0.025		0.025	0.010	mg/L		08/01/14 09:00	08/01/14 22:17	1
<b>Selenium</b>	<b>0.023</b>	<b>J B</b>	0.050	0.010	mg/L		08/01/14 09:00	08/01/14 22:17	1
Silver	<0.025		0.025	0.010	mg/L		08/01/14 09:00	08/01/14 22:17	1
<b>Zinc</b>	<b>0.034</b>	<b>J</b>	0.10	0.020	mg/L		08/01/14 09:00	08/01/14 22:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.041</b>	<b>J</b>	0.050	0.010	mg/L		07/30/14 09:15	07/31/14 20:34	1
<b>Barium</b>	<b>0.72</b>		0.50	0.050	mg/L		07/30/14 09:15	07/31/14 20:34	1
<b>Beryllium</b>	<b>0.0075</b>		0.0040	0.0040	mg/L		07/30/14 09:15	07/31/14 20:34	1
<b>Cadmium</b>	<b>0.0051</b>		0.0050	0.0020	mg/L		07/30/14 09:15	07/31/14 20:34	1
<b>Chromium</b>	<b>0.21</b>		0.025	0.010	mg/L		07/30/14 09:15	07/31/14 20:34	1
<b>Cobalt</b>	<b>0.052</b>		0.025	0.010	mg/L		07/30/14 09:15	07/31/14 20:34	1
<b>Copper</b>	<b>0.18</b>		0.025	0.010	mg/L		07/30/14 09:15	07/31/14 20:34	1
<b>Iron</b>	<b>200</b>		0.20	0.20	mg/L		07/30/14 09:15	07/31/14 20:34	1
<b>Lead</b>	<b>0.14</b>		0.0075	0.0075	mg/L		07/30/14 09:15	07/31/14 20:34	1
<b>Manganese</b>	<b>1.7</b>		0.025	0.010	mg/L		07/30/14 09:15	08/01/14 15:05	1
<b>Nickel</b>	<b>0.20</b>		0.025	0.010	mg/L		07/30/14 09:15	07/31/14 20:34	1
<b>Selenium</b>	<b>0.011</b>	<b>J</b>	0.050	0.010	mg/L		07/30/14 09:15	07/31/14 20:34	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81068-1

**Client Sample ID: GW-2(0-4)-072214**

**Lab Sample ID: 500-81068-14**

Date Collected: 07/22/14 15:20

Matrix: Solid

Date Received: 07/23/14 10:00

**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		07/30/14 09:15	07/31/14 20:34	1
<b>Zinc</b>	<b>0.53</b>		0.10	0.020	mg/L		07/30/14 09:15	07/31/14 20:34	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.46	mg/Kg	☼	07/30/14 16:30	07/31/14 23:07	1
<b>Arsenic</b>	<b>5.5</b>		0.57	0.11	mg/Kg	☼	07/30/14 16:30	07/31/14 23:07	1
<b>Barium</b>	<b>64</b>		0.57	0.061	mg/Kg	☼	07/30/14 16:30	07/31/14 23:07	1
<b>Beryllium</b>	<b>0.66</b>		0.23	0.046	mg/Kg	☼	07/30/14 16:30	07/31/14 23:07	1
<b>Cadmium</b>	<b>0.072</b>	<b>J B</b>	0.11	0.014	mg/Kg	☼	07/30/14 16:30	07/31/14 23:07	1
<b>Calcium</b>	<b>11000</b>	<b>B</b>	11	3.1	mg/Kg	☼	07/30/14 16:30	08/01/14 18:41	1
<b>Chromium</b>	<b>17</b>	<b>B</b>	0.57	0.066	mg/Kg	☼	07/30/14 16:30	07/31/14 23:07	1
<b>Cobalt</b>	<b>12</b>		0.28	0.057	mg/Kg	☼	07/30/14 16:30	08/01/14 18:41	1
<b>Copper</b>	<b>16</b>		0.57	0.11	mg/Kg	☼	07/30/14 16:30	07/31/14 23:07	1
<b>Iron</b>	<b>17000</b>		11	4.7	mg/Kg	☼	07/30/14 16:30	07/31/14 23:07	1
<b>Lead</b>	<b>34</b>		0.28	0.085	mg/Kg	☼	07/30/14 16:30	07/31/14 23:07	1
<b>Magnesium</b>	<b>7500</b>	<b>B</b>	5.7	1.2	mg/Kg	☼	07/30/14 16:30	07/31/14 23:07	1
<b>Manganese</b>	<b>560</b>	<b>B</b>	0.57	0.11	mg/Kg	☼	07/30/14 16:30	07/31/14 23:07	1
<b>Nickel</b>	<b>21</b>		0.57	0.11	mg/Kg	☼	07/30/14 16:30	07/31/14 23:07	1
<b>Potassium</b>	<b>1100</b>		28	1.7	mg/Kg	☼	07/30/14 16:30	07/31/14 23:07	1
<b>Selenium</b>	<b>0.52</b>	<b>J</b>	0.57	0.20	mg/Kg	☼	07/30/14 16:30	07/31/14 23:07	1
Silver	<0.28		0.28	0.021	mg/Kg	☼	07/30/14 16:30	07/31/14 23:07	1
<b>Sodium</b>	<b>2700</b>	<b>B</b>	57	7.6	mg/Kg	☼	07/30/14 16:30	08/01/14 18:41	1
Thallium	<0.57		0.57	0.24	mg/Kg	☼	07/30/14 16:30	07/31/14 23:07	1
<b>Vanadium</b>	<b>25</b>		0.28	0.042	mg/Kg	☼	07/30/14 16:30	07/31/14 23:07	1
<b>Zinc</b>	<b>61</b>		1.1	0.23	mg/Kg	☼	07/30/14 16:30	07/31/14 23:07	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		08/01/14 13:11	08/04/14 14:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.27</b>		0.20	0.20	ug/L		07/30/14 12:00	07/31/14 09:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>36</b>		19	7.4	ug/Kg	☼	07/30/14 12:00	07/31/14 09:02	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.55</b>		0.200	0.200	SU			07/30/14 14:06	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81068-1

**Client Sample ID: GW-2(0-4)-072214D**

**Lab Sample ID: 500-81068-15**

**Date Collected: 07/22/14 15:20**

**Matrix: Solid**

**Date Received: 07/23/14 10:00**

**Percent Solids: 85.7**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>15</b>		5.8	2.5	ug/Kg	☼		07/25/14 04:45	1
Benzene	<5.8		5.8	0.80	ug/Kg	☼		07/25/14 04:45	1
Bromodichloromethane	<5.8		5.8	1.0	ug/Kg	☼		07/25/14 04:45	1
Bromoform	<5.8		5.8	1.3	ug/Kg	☼		07/25/14 04:45	1
Bromomethane	<5.8		5.8	1.8	ug/Kg	☼		07/25/14 04:45	1
Carbon disulfide	<5.8		5.8	0.87	ug/Kg	☼		07/25/14 04:45	1
Carbon tetrachloride	<5.8		5.8	1.1	ug/Kg	☼		07/25/14 04:45	1
Chlorobenzene	<5.8		5.8	0.59	ug/Kg	☼		07/25/14 04:45	1
Chloroethane	<5.8		5.8	1.6	ug/Kg	☼		07/25/14 04:45	1
Chloroform	<5.8		5.8	0.67	ug/Kg	☼		07/25/14 04:45	1
Chloromethane	<5.8		5.8	1.2	ug/Kg	☼		07/25/14 04:45	1
cis-1,2-Dichloroethene	<5.8		5.8	0.83	ug/Kg	☼		07/25/14 04:45	1
cis-1,3-Dichloropropene	<5.8		5.8	0.77	ug/Kg	☼		07/25/14 04:45	1
Dibromochloromethane	<5.8		5.8	1.0	ug/Kg	☼		07/25/14 04:45	1
1,1-Dichloroethane	<5.8		5.8	0.92	ug/Kg	☼		07/25/14 04:45	1
1,2-Dichloroethane	<5.8		5.8	0.86	ug/Kg	☼		07/25/14 04:45	1
1,1-Dichloroethene	<5.8		5.8	0.94	ug/Kg	☼		07/25/14 04:45	1
1,2-Dichloropropane	<5.8		5.8	0.89	ug/Kg	☼		07/25/14 04:45	1
1,3-Dichloropropene, Total	<5.8		5.8	0.77	ug/Kg	☼		07/25/14 04:45	1
Ethylbenzene	<5.8		5.8	1.2	ug/Kg	☼		07/25/14 04:45	1
2-Hexanone	<5.8		5.8	1.7	ug/Kg	☼		07/25/14 04:45	1
Methylene Chloride	<5.8		5.8	1.6	ug/Kg	☼		07/25/14 04:45	1
<b>Methyl Ethyl Ketone</b>	<b>4.5 J</b>		5.8	2.1	ug/Kg	☼		07/25/14 04:45	1
methyl isobutyl ketone	<5.8		5.8	1.5	ug/Kg	☼		07/25/14 04:45	1
Methyl tert-butyl ether	<5.8		5.8	0.96	ug/Kg	☼		07/25/14 04:45	1
Styrene	<5.8		5.8	0.77	ug/Kg	☼		07/25/14 04:45	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	1.2	ug/Kg	☼		07/25/14 04:45	1
Tetrachloroethene	<5.8		5.8	0.89	ug/Kg	☼		07/25/14 04:45	1
Toluene	<5.8		5.8	0.82	ug/Kg	☼		07/25/14 04:45	1
trans-1,2-Dichloroethene	<5.8		5.8	0.80	ug/Kg	☼		07/25/14 04:45	1
trans-1,3-Dichloropropene	<5.8		5.8	1.0	ug/Kg	☼		07/25/14 04:45	1
1,1,1-Trichloroethane	<5.8		5.8	0.87	ug/Kg	☼		07/25/14 04:45	1
1,1,2-Trichloroethane	<5.8		5.8	0.80	ug/Kg	☼		07/25/14 04:45	1
Trichloroethene	<5.8		5.8	0.96	ug/Kg	☼		07/25/14 04:45	1
Vinyl chloride	<5.8		5.8	1.2	ug/Kg	☼		07/25/14 04:45	1
Xylenes, Total	<12		12	0.53	ug/Kg	☼		07/25/14 04:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 122		07/25/14 04:45	1
Dibromofluoromethane	107		75 - 120		07/25/14 04:45	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134		07/25/14 04:45	1
Toluene-d8 (Surr)	102		75 - 122		07/25/14 04:45	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	☼	08/05/14 14:18	08/06/14 04:30	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	08/05/14 14:18	08/06/14 04:30	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	08/05/14 14:18	08/06/14 04:30	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	08/05/14 14:18	08/06/14 04:30	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	08/05/14 14:18	08/06/14 04:30	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81068-1

**Client Sample ID: GW-2(0-4)-072214D**

**Lab Sample ID: 500-81068-15**

**Date Collected: 07/22/14 15:20**

**Matrix: Solid**

**Date Received: 07/23/14 10:00**

**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	85	ug/Kg	☼	08/05/14 14:18	08/06/14 04:30	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	08/05/14 14:18	08/06/14 04:30	1
2,4-Dichlorophenol	<370		370	89	ug/Kg	☼	08/05/14 14:18	08/06/14 04:30	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	08/05/14 14:18	08/06/14 04:30	1
2,4-Dinitrophenol	<750		750	660	ug/Kg	☼	08/05/14 14:18	08/06/14 04:30	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	08/05/14 14:18	08/06/14 04:30	1
2,6-Dinitrotoluene	<190		190	74	ug/Kg	☼	08/05/14 14:18	08/06/14 04:30	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	08/05/14 14:18	08/06/14 04:30	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	08/05/14 14:18	08/06/14 04:30	1
2-Methylnaphthalene	<37		37	6.9	ug/Kg	☼	08/05/14 14:18	08/06/14 04:30	1
2-Methylphenol	<190		190	60	ug/Kg	☼	08/05/14 14:18	08/06/14 04:30	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	08/05/14 14:18	08/06/14 04:30	1
2-Nitrophenol	<370		370	88	ug/Kg	☼	08/05/14 14:18	08/06/14 04:30	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	08/05/14 14:18	08/06/14 04:30	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	08/05/14 14:18	08/06/14 04:30	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	08/05/14 14:18	08/06/14 04:30	1
4,6-Dinitro-2-methylphenol	<370		370	300	ug/Kg	☼	08/05/14 14:18	08/06/14 04:30	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	08/05/14 14:18	08/06/14 04:30	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	08/05/14 14:18	08/06/14 04:30	1
4-Chloroaniline	<750		750	180	ug/Kg	☼	08/05/14 14:18	08/06/14 04:30	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	08/05/14 14:18	08/06/14 04:30	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	08/05/14 14:18	08/06/14 04:30	1
4-Nitrophenol	<750		750	360	ug/Kg	☼	08/05/14 14:18	08/06/14 04:30	1
Acenaphthene	<37		37	6.7	ug/Kg	☼	08/05/14 14:18	08/06/14 04:30	1
Acenaphthylene	<37		37	4.9	ug/Kg	☼	08/05/14 14:18	08/06/14 04:30	1
Anthracene	<37		37	6.2	ug/Kg	☼	08/05/14 14:18	08/06/14 04:30	1
Benzo[a]anthracene	<37		37	5.0	ug/Kg	☼	08/05/14 14:18	08/06/14 04:30	1
Benzo[a]pyrene	<37		37	7.2	ug/Kg	☼	08/05/14 14:18	08/06/14 04:30	1
Benzo[b]fluoranthene	<37		37	8.1	ug/Kg	☼	08/05/14 14:18	08/06/14 04:30	1
Benzo[g,h,i]perylene	<37		37	12	ug/Kg	☼	08/05/14 14:18	08/06/14 04:30	1
Benzo[k]fluoranthene	<37		37	11	ug/Kg	☼	08/05/14 14:18	08/06/14 04:30	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	08/05/14 14:18	08/06/14 04:30	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	08/05/14 14:18	08/06/14 04:30	1
Bis(2-ethylhexyl) phthalate	<190		190	68	ug/Kg	☼	08/05/14 14:18	08/06/14 04:30	1
Butyl benzyl phthalate	<190		190	71	ug/Kg	☼	08/05/14 14:18	08/06/14 04:30	1
Carbazole	<190		190	97	ug/Kg	☼	08/05/14 14:18	08/06/14 04:30	1
Chrysene	<37		37	10	ug/Kg	☼	08/05/14 14:18	08/06/14 04:30	1
Dibenz(a,h)anthracene	<37		37	7.2	ug/Kg	☼	08/05/14 14:18	08/06/14 04:30	1
Dibenzofuran	<190		190	44	ug/Kg	☼	08/05/14 14:18	08/06/14 04:30	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	08/05/14 14:18	08/06/14 04:30	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	08/05/14 14:18	08/06/14 04:30	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	08/05/14 14:18	08/06/14 04:30	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	08/05/14 14:18	08/06/14 04:30	1
<b>Fluoranthene</b>	<b>7.8 J</b>		37	6.9	ug/Kg	☼	08/05/14 14:18	08/06/14 04:30	1
Fluorene	<37		37	5.3	ug/Kg	☼	08/05/14 14:18	08/06/14 04:30	1
Hexachlorobenzene	<75		75	8.7	ug/Kg	☼	08/05/14 14:18	08/06/14 04:30	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	08/05/14 14:18	08/06/14 04:30	1
Hexachlorocyclopentadiene	<750		750	220	ug/Kg	☼	08/05/14 14:18	08/06/14 04:30	1
Hexachloroethane	<190		190	57	ug/Kg	☼	08/05/14 14:18	08/06/14 04:30	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81068-1

**Client Sample ID: GW-2(0-4)-072214D**

**Lab Sample ID: 500-81068-15**

**Date Collected: 07/22/14 15:20**

**Matrix: Solid**

**Date Received: 07/23/14 10:00**

**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	9.7	ug/Kg	☼	08/05/14 14:18	08/06/14 04:30	1
Isophorone	<190		190	42	ug/Kg	☼	08/05/14 14:18	08/06/14 04:30	1
Naphthalene	<37		37	5.8	ug/Kg	☼	08/05/14 14:18	08/06/14 04:30	1
Nitrobenzene	<37		37	9.3	ug/Kg	☼	08/05/14 14:18	08/06/14 04:30	1
N-Nitrosodi-n-propylamine	<190		190	46	ug/Kg	☼	08/05/14 14:18	08/06/14 04:30	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	08/05/14 14:18	08/06/14 04:30	1
Pentachlorophenol	<750		750	600	ug/Kg	☼	08/05/14 14:18	08/06/14 04:30	1
Phenanthrene	<37		37	5.2	ug/Kg	☼	08/05/14 14:18	08/06/14 04:30	1
Phenol	<190		190	83	ug/Kg	☼	08/05/14 14:18	08/06/14 04:30	1
<b>Pyrene</b>	<b>8.4</b>	<b>J</b>	37	7.4	ug/Kg	☼	08/05/14 14:18	08/06/14 04:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	54		35 - 137				08/05/14 14:18	08/06/14 04:30	1
2-Fluorobiphenyl	30		25 - 119				08/05/14 14:18	08/06/14 04:30	1
2-Fluorophenol	37		25 - 110				08/05/14 14:18	08/06/14 04:30	1
Nitrobenzene-d5	28		25 - 115				08/05/14 14:18	08/06/14 04:30	1
Phenol-d5	36		31 - 110				08/05/14 14:18	08/06/14 04:30	1
Terphenyl-d14	55		36 - 134				08/05/14 14:18	08/06/14 04:30	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		08/01/14 09:00	08/01/14 22:22	1
<b>Barium</b>	<b>0.31</b>	<b>J</b>	0.50	0.050	mg/L		08/01/14 09:00	08/01/14 22:22	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/01/14 09:00	08/01/14 22:22	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/01/14 09:00	08/01/14 22:22	1
Chromium	<0.025		0.025	0.010	mg/L		08/01/14 09:00	08/01/14 22:22	1
Cobalt	<0.025		0.025	0.010	mg/L		08/01/14 09:00	08/01/14 22:22	1
<b>Copper</b>	<b>0.025</b>		0.025	0.010	mg/L		08/01/14 09:00	08/01/14 22:22	1
Iron	<0.20		0.20	0.20	mg/L		08/01/14 09:00	08/01/14 22:22	1
Lead	<0.0075		0.0075	0.0075	mg/L		08/01/14 09:00	08/01/14 22:22	1
<b>Manganese</b>	<b>0.20</b>		0.025	0.010	mg/L		08/01/14 09:00	08/01/14 22:22	1
Nickel	<0.025		0.025	0.010	mg/L		08/01/14 09:00	08/01/14 22:22	1
<b>Selenium</b>	<b>0.022</b>	<b>J B</b>	0.050	0.010	mg/L		08/01/14 09:00	08/01/14 22:22	1
Silver	<0.025		0.025	0.010	mg/L		08/01/14 09:00	08/01/14 22:22	1
<b>Zinc</b>	<b>0.048</b>	<b>J</b>	0.10	0.020	mg/L		08/01/14 09:00	08/01/14 22:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.027</b>	<b>J</b>	0.050	0.010	mg/L		07/30/14 09:15	07/31/14 20:40	1
<b>Barium</b>	<b>0.52</b>		0.50	0.050	mg/L		07/30/14 09:15	07/31/14 20:40	1
<b>Beryllium</b>	<b>0.0055</b>		0.0040	0.0040	mg/L		07/30/14 09:15	07/31/14 20:40	1
<b>Cadmium</b>	<b>0.0036</b>	<b>J</b>	0.0050	0.0020	mg/L		07/30/14 09:15	07/31/14 20:40	1
<b>Chromium</b>	<b>0.16</b>		0.025	0.010	mg/L		07/30/14 09:15	07/31/14 20:40	1
<b>Cobalt</b>	<b>0.039</b>		0.025	0.010	mg/L		07/30/14 09:15	07/31/14 20:40	1
<b>Copper</b>	<b>0.14</b>		0.025	0.010	mg/L		07/30/14 09:15	07/31/14 20:40	1
<b>Iron</b>	<b>140</b>		0.20	0.20	mg/L		07/30/14 09:15	07/31/14 20:40	1
<b>Lead</b>	<b>0.23</b>		0.0075	0.0075	mg/L		07/30/14 09:15	07/31/14 20:40	1
<b>Manganese</b>	<b>1.3</b>		0.025	0.010	mg/L		07/30/14 09:15	08/01/14 15:09	1
<b>Nickel</b>	<b>0.14</b>		0.025	0.010	mg/L		07/30/14 09:15	07/31/14 20:40	1
Selenium	<0.050		0.050	0.010	mg/L		07/30/14 09:15	07/31/14 20:40	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81068-1

**Client Sample ID: GW-2(0-4)-072214D**

**Lab Sample ID: 500-81068-15**

Date Collected: 07/22/14 15:20

Matrix: Solid

Date Received: 07/23/14 10:00

**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		07/30/14 09:15	07/31/14 20:40	1
Zinc	0.49		0.10	0.020	mg/L		07/30/14 09:15	07/31/14 20:40	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.47	J	1.1	0.43	mg/Kg	☼	07/30/14 16:30	07/31/14 23:12	1
Arsenic	6.7		0.53	0.11	mg/Kg	☼	07/30/14 16:30	07/31/14 23:12	1
Barium	49		0.53	0.057	mg/Kg	☼	07/30/14 16:30	07/31/14 23:12	1
Beryllium	0.57		0.21	0.043	mg/Kg	☼	07/30/14 16:30	07/31/14 23:12	1
Cadmium	0.18	B	0.11	0.014	mg/Kg	☼	07/30/14 16:30	07/31/14 23:12	1
Calcium	25000	B	11	2.9	mg/Kg	☼	07/30/14 16:30	08/01/14 18:46	1
Chromium	17	B	0.53	0.062	mg/Kg	☼	07/30/14 16:30	07/31/14 23:12	1
Cobalt	12		0.27	0.053	mg/Kg	☼	07/30/14 16:30	08/01/14 18:46	1
Copper	21		0.53	0.11	mg/Kg	☼	07/30/14 16:30	07/31/14 23:12	1
Iron	19000		11	4.4	mg/Kg	☼	07/30/14 16:30	07/31/14 23:12	1
Lead	61		0.27	0.080	mg/Kg	☼	07/30/14 16:30	07/31/14 23:12	1
Magnesium	16000	B	5.3	1.1	mg/Kg	☼	07/30/14 16:30	07/31/14 23:12	1
Manganese	470	B	0.53	0.11	mg/Kg	☼	07/30/14 16:30	07/31/14 23:12	1
Nickel	23		0.53	0.11	mg/Kg	☼	07/30/14 16:30	07/31/14 23:12	1
Potassium	1100		27	1.6	mg/Kg	☼	07/30/14 16:30	07/31/14 23:12	1
Selenium	0.32	J	0.53	0.19	mg/Kg	☼	07/30/14 16:30	07/31/14 23:12	1
Silver	<0.27		0.27	0.019	mg/Kg	☼	07/30/14 16:30	07/31/14 23:12	1
Sodium	3000	B	53	7.2	mg/Kg	☼	07/30/14 16:30	08/01/14 18:46	1
Thallium	0.24	J	0.53	0.23	mg/Kg	☼	07/30/14 16:30	07/31/14 23:12	1
Vanadium	35		0.27	0.040	mg/Kg	☼	07/30/14 16:30	07/31/14 23:12	1
Zinc	82		1.1	0.22	mg/Kg	☼	07/30/14 16:30	07/31/14 23:12	1

**Method: 7470A - Mercury (CVAA) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		08/01/14 13:11	08/04/14 14:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20		0.20	0.20	ug/L		07/30/14 12:00	07/31/14 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	31		19	7.5	ug/Kg	☼	07/30/14 12:00	07/31/14 09:04	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.66		0.200	0.200	SU			07/30/14 14:09	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81068-1

## 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
F2	MS/MSD RPD exceeds control limits

### Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F3	Duplicate RPD exceeds the control limit
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.
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 - IL Rt. 132 - WO 046

TestAmerica Job ID: 500-81068-1

## 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 TESTING

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

Report To (optional)  
Contact: S. Babusankumar  
Company: Weston Solutions Inc.  
Address: 300 Plaza Circle, Ste 202  
Address: Munchehain, FL 60060  
Phone: 224-864-7850  
Fax: 224-864-7236  
E-Mail:

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

## Chain of Custody Record

Lab Job #: 500-81068  
Chain of Custody Number:  
Page 4 of 4  
Temperature °C of Cooler:

Client		Client Project #		Preservative		Parameter		Matrix		Comments	
<u>Weston</u>											
Project Name		Lab Project #		# of Containers		Total Metals		Te-P/SPUP Metals		pH	
<u>FDOT-046</u>						<u>NOCs</u>		<u>NOCs</u>			
Project Location/State		Sampler		Date		Time		Matrix		Preservative Key	
<u>Lake County, IL</u>		<u>T. Walker</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	
Lab ID		MS/MSD		Sample ID		Sampling		Matrix		Comments	
<u>11</u>				<u>R12-1(0-4)-072214</u>	<u>7-22-14</u>	<u>1435</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>12</u>				<u>R14-1(0-6)-072214</u>	<u>↓</u>	<u>1445</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>
<u>13</u>				<u>6W-1(0-4)-072214</u>	<u>↓</u>	<u>1510</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>
<u>14</u>				<u>6W-2(0-4)-072214</u>	<u>↓</u>	<u>1520</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>
<u>15</u>				<u>6W-2(0-4)-072214D</u>	<u>7-22-14</u>	<u>1520</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>
<del><u>7-Walker 7-22-14</u></del>											

Turnaround Time Required (Business Days)

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

Sample Disposal

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

Relinquished By <u>T. Walker</u>	Company <u>Weston</u>	Date <u>7-27-14</u>	Time <u>1545</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>7/23/14</u>	Time <u>1545</u>
Relinquished By <u>[Signature]</u>	Company <u>JA</u>	Date <u>7/22/14</u>	Time <u>835</u>	Received By <u>[Signature]</u>	Company <u>JA</u>	Date <u>7/23/14</u>	Time <u>0835</u>
Relinquished By <u>[Signature]</u>	Company <u>JA</u>	Date <u>7/23/14</u>	Time <u>1000</u>	Received By <u>[Signature]</u>	Company <u>JA</u>	Date <u>7/23/14</u>	Time <u>1000</u>

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: