



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 333 : IL Route 120 Office Phone Number, if available: \_\_\_\_\_

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

2 W. Belvidere Road (ISGS Site No. 2464V-16)

City: Hainesville 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: 42.345093798 Longitude: -88.067835712  
(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

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: \_\_\_\_\_

City: Schaumburg State: IL

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

Contact: Sam Mead

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

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: \_\_\_\_\_

City: Schaumburg State: IL

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

Contact: Sam Mead

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 333 : IL Route 120

Latitude: 42.345093798 Longitude: -88.067835712

**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 MG-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2464V-16. SEE FIGURE 3-1 AND TABLE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - JOB ID: 500-103903-1  
ALSO SEE FIGURE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

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

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

Company Name: Weston Solutions, Inc.  
 Street Address: 300 Circle Plaza; Suite 202  
 City: Mundelein State: IL Zip Code: 60060  
 Phone: (224) 864-7200

William F. Karlovitz, P.E.  
 Printed Name:

*[Handwritten Signature]*  
 Licensed Professional Engineer or  
 Licensed Professional Geologist Signature:

7 March 2016  
 Date:



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

**Summary Table of ISGS Site No. 2464V-16**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAP 333: IL Route 120 at Hainesville Road**  
**Hainesville, Lake County, Illinois**

<b>Field Sample ID</b>	MG-1(0-5)-111115	<b>Soil Reference Concentrations<sup>A</sup></b>
<b>Sample Date</b>	11/11/2015	
<b>Location ID</b>	MG-1	
<b>Depth</b>	0 - 5	
<b>Location Code</b>	2464V-16	
<b>Parameter</b>		
Laboratory pH	8.25	<6.25, >9.0
<b>VOCs (ug/kg)</b>	No Exceedances	
<b>SVOCs (ug/kg)</b>	No Exceedances	
<b>Total Metals (mg/kg)</b>		
Antimony, Total	0.39 J	5
Arsenic, Total	8.5 J-	11.3 / 13.0
Barium, Total	70 J	1500
Beryllium, Total	0.7 J	22
Cadmium, Total	0.34 J	5.2
Calcium, Total	29000 J	---
Chromium, Total	17 B	21
Cobalt, Total	12 J	20
Copper, Total	31 J	2900
Iron, Total	22000 J	15000 / 15900
Lead, Total	15 J	107
Magnesium, Total	20000 J	325000
Manganese, Total	500 J	630 / 636
Mercury, Total	0.017 J	0.89
Nickel, Total	35 J	100
Potassium, Total	1700 J	---
Selenium, Total	0.7 J-	1.3
Silver, Total	ND	4.4
Sodium, Total	1400	---
Vanadium, Total	25	550
Zinc, Total	59 J	5100
<b>TCLP Metals (mg/l)</b>		
Barium, TCLP	0.4 J	2
Cadmium, TCLP	0.0041 J	0.005
Cobalt, TCLP	ND	1
Copper, TCLP	ND	0.65
Iron, TCLP	ND	5
Lead, TCLP	ND	0.0075
Manganese, TCLP	2.5	0.15
Mercury, TCLP	ND	0.002
Nickel, TCLP	0.023 J	0.1
Zinc, TCLP	ND	5
<b>SPLP Metals (mg/l)</b>		
Arsenic, SPLP	0.058	0.05
Barium, SPLP	0.6	2
Beryllium, SPLP	0.0059	0.004
Cadmium, SPLP	ND	0.005
Chromium, SPLP	0.16	0.1
Cobalt, SPLP	0.041	1
Copper, SPLP	0.22	0.65
Iron, SPLP	160 J+	5
Lead, SPLP	0.066	0.0075
Manganese, SPLP	0.71	0.15
Mercury, SPLP	ND	0.002
Nickel, SPLP	0.17	0.1
Zinc, SPLP	0.66	5

**Summary Table of ISGS Site No. 2464V-16**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAP 333: IL Route 120 at Hainesville Road**  
**Hainesville, Lake County, Illinois**

**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.


B - Constituent detected in the blank and investigative sample.

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

J- - Estimated concentration, biased low.

J+ - Estimated concentration, biased high.

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

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

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

TestAmerica Job ID: 500-103903-1  
Client Project/Site: IDOT - Illinois Route 120 - WO 027

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

Attn: Mr. S. Babusukumar



Authorized for release by:  
11/25/2015 4:09:58 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 - Illinois Route 120 - WO 027

TestAmerica Job ID: 500-103903-1

**Client Sample ID: MG-1(0-5)-111115**

**Lab Sample ID: 500-103903-10**

**Date Collected: 11/11/15 09:52**

**Matrix: Solid**

**Date Received: 11/12/15 08:00**

**Percent Solids: 79.5**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<25		25	4.9	ug/Kg	☼		11/13/15 13:14	1
Benzene	<6.3		6.3	1.4	ug/Kg	☼		11/13/15 13:14	1
Bromodichloromethane	<6.3		6.3	1.1	ug/Kg	☼		11/13/15 13:14	1
Bromoform	<6.3		6.3	1.3	ug/Kg	☼		11/13/15 13:14	1
Bromomethane	<6.3 *		6.3	2.3	ug/Kg	☼		11/13/15 13:14	1
Carbon disulfide	<6.3		6.3	2.3	ug/Kg	☼		11/13/15 13:14	1
Carbon tetrachloride	<6.3		6.3	1.3	ug/Kg	☼		11/13/15 13:14	1
Chlorobenzene	<6.3		6.3	1.5	ug/Kg	☼		11/13/15 13:14	1
Chloroethane	<6.3		6.3	2.6	ug/Kg	☼		11/13/15 13:14	1
Chloroform	<6.3		6.3	1.2	ug/Kg	☼		11/13/15 13:14	1
Chloromethane	<6.3		6.3	1.5	ug/Kg	☼		11/13/15 13:14	1
cis-1,2-Dichloroethene	<6.3		6.3	1.3	ug/Kg	☼		11/13/15 13:14	1
cis-1,3-Dichloropropene	<6.3		6.3	1.4	ug/Kg	☼		11/13/15 13:14	1
Dibromochloromethane	<6.3		6.3	0.72	ug/Kg	☼		11/13/15 13:14	1
1,1-Dichloroethane	<6.3		6.3	1.3	ug/Kg	☼		11/13/15 13:14	1
1,2-Dichloroethane	<6.3		6.3	0.93	ug/Kg	☼		11/13/15 13:14	1
1,1-Dichloroethene	<6.3		6.3	2.3	ug/Kg	☼		11/13/15 13:14	1
1,2-Dichloropropane	<6.3		6.3	1.6	ug/Kg	☼		11/13/15 13:14	1
1,3-Dichloropropene, Total	<6.3		6.3	1.8	ug/Kg	☼		11/13/15 13:14	1
Ethylbenzene	<6.3		6.3	1.6	ug/Kg	☼		11/13/15 13:14	1
2-Hexanone	<6.3		6.3	1.9	ug/Kg	☼		11/13/15 13:14	1
Methylene Chloride	<6.3		6.3	4.8	ug/Kg	☼		11/13/15 13:14	1
Methyl Ethyl Ketone	<6.3		6.3	2.2	ug/Kg	☼		11/13/15 13:14	1
methyl isobutyl ketone	<6.3		6.3	1.3	ug/Kg	☼		11/13/15 13:14	1
Methyl tert-butyl ether	<6.3		6.3	1.5	ug/Kg	☼		11/13/15 13:14	1
Styrene	<6.3		6.3	1.5	ug/Kg	☼		11/13/15 13:14	1
1,1,2,2-Tetrachloroethane	<6.3		6.3	1.0	ug/Kg	☼		11/13/15 13:14	1
Tetrachloroethene	<6.3		6.3	1.3	ug/Kg	☼		11/13/15 13:14	1
Toluene	<6.3		6.3	2.2	ug/Kg	☼		11/13/15 13:14	1
trans-1,2-Dichloroethene	<6.3		6.3	1.6	ug/Kg	☼		11/13/15 13:14	1
trans-1,3-Dichloropropene	<6.3		6.3	1.8	ug/Kg	☼		11/13/15 13:14	1
1,1,1-Trichloroethane	<6.3		6.3	1.5	ug/Kg	☼		11/13/15 13:14	1
1,1,2-Trichloroethane	<6.3		6.3	1.2	ug/Kg	☼		11/13/15 13:14	1
Trichloroethene	<6.3		6.3	1.7	ug/Kg	☼		11/13/15 13:14	1
Vinyl chloride	<6.3		6.3	1.5	ug/Kg	☼		11/13/15 13:14	1
Xylenes, Total	<13		13	2.3	ug/Kg	☼		11/13/15 13:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 122		11/13/15 13:14	1
Dibromofluoromethane	100		75 - 120		11/13/15 13:14	1
1,2-Dichloroethane-d4 (Surr)	118		70 - 134		11/13/15 13:14	1
Toluene-d8 (Surr)	112		75 - 122		11/13/15 13:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<200		200	44	ug/Kg	☼	11/13/15 07:26	11/19/15 11:22	1
1,2-Dichlorobenzene	<200		200	48	ug/Kg	☼	11/13/15 07:26	11/19/15 11:22	1
1,3-Dichlorobenzene	<200		200	46	ug/Kg	☼	11/13/15 07:26	11/19/15 11:22	1
1,4-Dichlorobenzene	<200		200	52	ug/Kg	☼	11/13/15 07:26	11/19/15 11:22	1
2,2'-oxybis[1-chloropropane]	<200		200	47	ug/Kg	☼	11/13/15 07:26	11/19/15 11:22	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - Illinois Route 120 - WO 027

TestAmerica Job ID: 500-103903-1

**Client Sample ID: MG-1(0-5)-111115**

**Lab Sample ID: 500-103903-10**

**Date Collected: 11/11/15 09:52**

**Matrix: Solid**

**Date Received: 11/12/15 08:00**

**Percent Solids: 79.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<400		400	92	ug/Kg	☼	11/13/15 07:26	11/19/15 11:22	1
2,4,6-Trichlorophenol	<400		400	140	ug/Kg	☼	11/13/15 07:26	11/19/15 11:22	1
2,4-Dichlorophenol	<400		400	96	ug/Kg	☼	11/13/15 07:26	11/19/15 11:22	1
2,4-Dimethylphenol	<400		400	150	ug/Kg	☼	11/13/15 07:26	11/19/15 11:22	1
2,4-Dinitrophenol	<820		820	710	ug/Kg	☼	11/13/15 07:26	11/19/15 11:22	1
2,4-Dinitrotoluene	<200		200	64	ug/Kg	☼	11/13/15 07:26	11/19/15 11:22	1
2,6-Dinitrotoluene	<200		200	79	ug/Kg	☼	11/13/15 07:26	11/19/15 11:22	1
2-Chloronaphthalene	<200		200	45	ug/Kg	☼	11/13/15 07:26	11/19/15 11:22	1
2-Chlorophenol	<200		200	69	ug/Kg	☼	11/13/15 07:26	11/19/15 11:22	1
2-Methylnaphthalene	<40		40	7.4	ug/Kg	☼	11/13/15 07:26	11/19/15 11:22	1
2-Methylphenol	<200		200	65	ug/Kg	☼	11/13/15 07:26	11/19/15 11:22	1
2-Nitroaniline	<200		200	54	ug/Kg	☼	11/13/15 07:26	11/19/15 11:22	1
2-Nitrophenol	<400		400	96	ug/Kg	☼	11/13/15 07:26	11/19/15 11:22	1
3 & 4 Methylphenol	<200		200	67	ug/Kg	☼	11/13/15 07:26	11/19/15 11:22	1
3,3'-Dichlorobenzidine	<200		200	57	ug/Kg	☼	11/13/15 07:26	11/19/15 11:22	1
3-Nitroaniline	<400		400	130	ug/Kg	☼	11/13/15 07:26	11/19/15 11:22	1
4,6-Dinitro-2-methylphenol	<820		820	320	ug/Kg	☼	11/13/15 07:26	11/19/15 11:22	1
4-Bromophenyl phenyl ether	<200		200	53	ug/Kg	☼	11/13/15 07:26	11/19/15 11:22	1
4-Chloro-3-methylphenol	<400		400	140	ug/Kg	☼	11/13/15 07:26	11/19/15 11:22	1
4-Chloroaniline	<820		820	190	ug/Kg	☼	11/13/15 07:26	11/19/15 11:22	1
4-Chlorophenyl phenyl ether	<200		200	47	ug/Kg	☼	11/13/15 07:26	11/19/15 11:22	1
4-Nitroaniline	<400		400	170	ug/Kg	☼	11/13/15 07:26	11/19/15 11:22	1
4-Nitrophenol	<820		820	380	ug/Kg	☼	11/13/15 07:26	11/19/15 11:22	1
Acenaphthene	<40		40	7.3	ug/Kg	☼	11/13/15 07:26	11/19/15 11:22	1
Acenaphthylene	<40		40	5.3	ug/Kg	☼	11/13/15 07:26	11/19/15 11:22	1
Anthracene	<40		40	6.8	ug/Kg	☼	11/13/15 07:26	11/19/15 11:22	1
Benzo[a]anthracene	<40		40	5.4	ug/Kg	☼	11/13/15 07:26	11/19/15 11:22	1
Benzo[a]pyrene	<40		40	7.8	ug/Kg	☼	11/13/15 07:26	11/19/15 11:22	1
Benzo[b]fluoranthene	<40		40	8.7	ug/Kg	☼	11/13/15 07:26	11/19/15 11:22	1
Benzo[g,h,i]perylene	<40		40	13	ug/Kg	☼	11/13/15 07:26	11/19/15 11:22	1
Benzo[k]fluoranthene	<40		40	12	ug/Kg	☼	11/13/15 07:26	11/19/15 11:22	1
Bis(2-chloroethoxy)methane	<200		200	41	ug/Kg	☼	11/13/15 07:26	11/19/15 11:22	1
Bis(2-chloroethyl)ether	<200		200	61	ug/Kg	☼	11/13/15 07:26	11/19/15 11:22	1
Bis(2-ethylhexyl) phthalate	<200		200	74	ug/Kg	☼	11/13/15 07:26	11/19/15 11:22	1
Butyl benzyl phthalate	<200		200	77	ug/Kg	☼	11/13/15 07:26	11/19/15 11:22	1
Carbazole	<200		200	100	ug/Kg	☼	11/13/15 07:26	11/19/15 11:22	1
Chrysene	<40		40	11	ug/Kg	☼	11/13/15 07:26	11/19/15 11:22	1
Dibenz(a,h)anthracene	<40		40	7.8	ug/Kg	☼	11/13/15 07:26	11/19/15 11:22	1
Dibenzofuran	<200		200	47	ug/Kg	☼	11/13/15 07:26	11/19/15 11:22	1
Diethyl phthalate	<200		200	69	ug/Kg	☼	11/13/15 07:26	11/19/15 11:22	1
Dimethyl phthalate	<200		200	53	ug/Kg	☼	11/13/15 07:26	11/19/15 11:22	1
Di-n-butyl phthalate	<200		200	62	ug/Kg	☼	11/13/15 07:26	11/19/15 11:22	1
Di-n-octyl phthalate	<200		200	66	ug/Kg	☼	11/13/15 07:26	11/19/15 11:22	1
Fluoranthene	<40		40	7.5	ug/Kg	☼	11/13/15 07:26	11/19/15 11:22	1
Fluorene	<40		40	5.7	ug/Kg	☼	11/13/15 07:26	11/19/15 11:22	1
Hexachlorobenzene	<82		82	9.4	ug/Kg	☼	11/13/15 07:26	11/19/15 11:22	1
Hexachlorobutadiene	<200		200	64	ug/Kg	☼	11/13/15 07:26	11/19/15 11:22	1
Hexachlorocyclopentadiene	<820		820	230	ug/Kg	☼	11/13/15 07:26	11/19/15 11:22	1
Hexachloroethane	<200		200	61	ug/Kg	☼	11/13/15 07:26	11/19/15 11:22	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - Illinois Route 120 - WO 027

TestAmerica Job ID: 500-103903-1

**Client Sample ID: MG-1(0-5)-111115**

**Lab Sample ID: 500-103903-10**

**Date Collected: 11/11/15 09:52**

**Matrix: Solid**

**Date Received: 11/12/15 08:00**

**Percent Solids: 79.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<40		40	10	ug/Kg	☼	11/13/15 07:26	11/19/15 11:22	1
Isophorone	<200		200	45	ug/Kg	☼	11/13/15 07:26	11/19/15 11:22	1
Naphthalene	<40		40	6.2	ug/Kg	☼	11/13/15 07:26	11/19/15 11:22	1
Nitrobenzene	<40		40	10	ug/Kg	☼	11/13/15 07:26	11/19/15 11:22	1
N-Nitrosodi-n-propylamine	<200		200	49	ug/Kg	☼	11/13/15 07:26	11/19/15 11:22	1
N-Nitrosodiphenylamine	<200		200	48	ug/Kg	☼	11/13/15 07:26	11/19/15 11:22	1
Pentachlorophenol	<820		820	650	ug/Kg	☼	11/13/15 07:26	11/19/15 11:22	1
Phenanthrene	<40		40	5.6	ug/Kg	☼	11/13/15 07:26	11/19/15 11:22	1
Phenol	<200		200	90	ug/Kg	☼	11/13/15 07:26	11/19/15 11:22	1
Pyrene	<40		40	8.0	ug/Kg	☼	11/13/15 07:26	11/19/15 11:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	106		35 - 137	11/13/15 07:26	11/19/15 11:22	1
2-Fluorobiphenyl	85		25 - 119	11/13/15 07:26	11/19/15 11:22	1
2-Fluorophenol	75		25 - 110	11/13/15 07:26	11/19/15 11:22	1
Nitrobenzene-d5	84		25 - 115	11/13/15 07:26	11/19/15 11:22	1
Phenol-d5	68		31 - 110	11/13/15 07:26	11/19/15 11:22	1
Terphenyl-d14	101		36 - 134	11/13/15 07:26	11/19/15 11:22	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		11/22/15 23:18	11/23/15 22:27	1
<b>Barium</b>	<b>0.40</b>	<b>J</b>	0.50	0.050	mg/L		11/22/15 23:18	11/23/15 22:27	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/22/15 23:18	11/23/15 22:27	1
<b>Cadmium</b>	<b>0.0041</b>	<b>J</b>	0.0050	0.0020	mg/L		11/22/15 23:18	11/23/15 22:27	1
Chromium	<0.025		0.025	0.010	mg/L		11/22/15 23:18	11/23/15 22:27	1
Cobalt	<0.025		0.025	0.010	mg/L		11/22/15 23:18	11/23/15 22:27	1
Copper	<0.025		0.025	0.010	mg/L		11/22/15 23:18	11/23/15 22:27	1
Iron	<0.20		0.20	0.20	mg/L		11/22/15 23:18	11/23/15 22:27	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/22/15 23:18	11/23/15 22:27	1
<b>Manganese</b>	<b>2.5</b>		0.025	0.010	mg/L		11/22/15 23:18	11/23/15 22:27	1
<b>Nickel</b>	<b>0.023</b>	<b>J</b>	0.025	0.010	mg/L		11/22/15 23:18	11/23/15 22:27	1
Selenium	<0.050		0.050	0.020	mg/L		11/22/15 23:18	11/23/15 22:27	1
Silver	<0.025		0.025	0.010	mg/L		11/22/15 23:18	11/23/15 22:27	1
Zinc	<0.50		0.50	0.020	mg/L		11/22/15 23:18	11/23/15 22:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.058</b>		0.050	0.010	mg/L		11/23/15 17:00	11/24/15 21:42	1
<b>Barium</b>	<b>0.60</b>		0.50	0.050	mg/L		11/23/15 17:00	11/24/15 21:42	1
<b>Beryllium</b>	<b>0.0059</b>		0.0040	0.0040	mg/L		11/23/15 17:00	11/24/15 21:42	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/23/15 17:00	11/24/15 21:42	1
<b>Chromium</b>	<b>0.16</b>		0.025	0.010	mg/L		11/23/15 17:00	11/24/15 21:42	1
<b>Cobalt</b>	<b>0.041</b>		0.025	0.010	mg/L		11/23/15 17:00	11/24/15 21:42	1
<b>Copper</b>	<b>0.22</b>		0.025	0.010	mg/L		11/23/15 17:00	11/24/15 21:42	1
<b>Iron</b>	<b>160</b>		0.20	0.20	mg/L		11/23/15 17:00	11/24/15 21:42	1
<b>Lead</b>	<b>0.066</b>		0.038	0.038	mg/L		11/23/15 17:00	11/25/15 12:05	5
<b>Manganese</b>	<b>0.71</b>		0.025	0.010	mg/L		11/23/15 17:00	11/24/15 21:42	1
<b>Nickel</b>	<b>0.17</b>		0.025	0.010	mg/L		11/23/15 17:00	11/24/15 21:42	1
Selenium	<0.050		0.050	0.020	mg/L		11/23/15 17:00	11/24/15 21:42	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - Illinois Route 120 - WO 027

TestAmerica Job ID: 500-103903-1

**Client Sample ID: MG-1(0-5)-111115**

**Lab Sample ID: 500-103903-10**

**Date Collected: 11/11/15 09:52**

**Matrix: Solid**

**Date Received: 11/12/15 08:00**

**Percent Solids: 79.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		11/23/15 17:00	11/24/15 21:42	1
<b>Zinc</b>	<b>0.66</b>		0.50	0.020	mg/L		11/23/15 17:00	11/24/15 21:42	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.39</b>	<b>J</b>	1.2	0.26	mg/Kg	☼	11/17/15 18:42	11/20/15 03:03	1
<b>Arsenic</b>	<b>8.5</b>		0.62	0.29	mg/Kg	☼	11/17/15 18:42	11/20/15 03:03	1
<b>Barium</b>	<b>70</b>		0.62	0.11	mg/Kg	☼	11/17/15 18:42	11/20/15 03:03	1
<b>Beryllium</b>	<b>0.70</b>		0.25	0.054	mg/Kg	☼	11/17/15 18:42	11/20/15 03:03	1
<b>Cadmium</b>	<b>0.34</b>		0.12	0.036	mg/Kg	☼	11/17/15 18:42	11/20/15 03:03	1
<b>Calcium</b>	<b>29000</b>		12	4.0	mg/Kg	☼	11/17/15 18:42	11/20/15 03:03	1
<b>Chromium</b>	<b>17</b>	<b>B</b>	0.62	0.11	mg/Kg	☼	11/17/15 18:42	11/20/15 03:03	1
<b>Cobalt</b>	<b>12</b>		0.31	0.070	mg/Kg	☼	11/17/15 18:42	11/20/15 03:03	1
<b>Copper</b>	<b>31</b>		0.62	0.13	mg/Kg	☼	11/17/15 18:42	11/20/15 03:03	1
<b>Iron</b>	<b>22000</b>		12	4.8	mg/Kg	☼	11/17/15 18:42	11/20/15 03:03	1
<b>Lead</b>	<b>15</b>		0.31	0.15	mg/Kg	☼	11/17/15 18:42	11/20/15 03:03	1
<b>Magnesium</b>	<b>20000</b>	<b>B</b>	6.2	2.5	mg/Kg	☼	11/17/15 18:42	11/20/15 03:03	1
<b>Manganese</b>	<b>500</b>		0.62	0.12	mg/Kg	☼	11/17/15 18:42	11/20/15 03:03	1
<b>Nickel</b>	<b>35</b>	<b>^</b>	0.62	0.17	mg/Kg	☼	11/17/15 18:42	11/20/15 03:03	1
<b>Potassium</b>	<b>1700</b>		31	5.1	mg/Kg	☼	11/17/15 18:42	11/20/15 03:03	1
<b>Selenium</b>	<b>0.70</b>		0.62	0.31	mg/Kg	☼	11/17/15 18:42	11/20/15 03:03	1
Silver	<0.31		0.31	0.073	mg/Kg	☼	11/17/15 18:42	11/20/15 03:03	1
<b>Sodium</b>	<b>1400</b>		62	8.2	mg/Kg	☼	11/17/15 18:42	11/20/15 03:03	1
Thallium	<0.62		0.62	0.31	mg/Kg	☼	11/17/15 18:42	11/20/15 03:03	1
<b>Vanadium</b>	<b>25</b>		0.31	0.091	mg/Kg	☼	11/17/15 18:42	11/20/15 03:03	1
<b>Zinc</b>	<b>59</b>	<b>^</b>	1.2	0.39	mg/Kg	☼	11/17/15 18:42	11/20/15 03:03	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		11/23/15 18:30	11/24/15 15:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		11/23/15 20:30	11/24/15 13:51	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>17</b>	<b>J</b>	21	7.2	ug/Kg	☼	11/16/15 15:00	11/17/15 12:04	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.25</b>		0.200	0.200	SU			11/21/15 11:20	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Illinois Route 120 - WO 027

TestAmerica Job ID: 500-103903-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.

### GC/MS Semi VOA

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

### Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F2	MS/MSD RPD exceeds control limits
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
F3	Duplicate RPD exceeds the control limit
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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 - Illinois Route 120 - WO 027

TestAmerica Job ID: 500-103903-1

## 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	04-30-16

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

Analysis Method	Prep Method	Matrix	Analyte
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. Babubakumar  
 Company: Weston Solutions  
 Address: 300 Plaza Cir, Ste 202  
Mundelein, IL 60060  
 Phone: 224-864-7252  
 Fax: \_\_\_\_\_  
 E-Mail: \_\_\_\_\_

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

## Chain of Custody Record

Lab Job #: 500-103903  
 Chain of Custody Number: \_\_\_\_\_  
 Page 3 of 4  
 Temperature °C of Cooler: (2.9)(3.1)

Client		Client Project #		Preservative		Parameter		Matrix		Preservative Key	
<u>Weston</u>										 500-103903 COC	
Project Name		Lab Project #		Sampling		# of Containers		Matrix		Comments	
<u>IDOT 027</u>											
Project Location/State		Lab Project #		Date		Time		Matrix		Comments	
<u>Hainesville, IL</u>											
Sampler		Lab PM		Date		Time		Matrix		Comments	
<u>A. Turchasz</u>		<u>Jack Wright</u>									
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOC	SVOC	Total Metals	TCUP / SPCP Metals	PH
1		R-1(0-2)-11115	11/11/15	0810	2	S	X	X	X	X	X
2		OB-3(0-3)-11115	11/11/15	0825	2	S	X	X	X	X	X
3		CB-3(0-3)-11115D	11/11/15	0825	2	S	X	X	X	X	X
4		CB-2(0-3)-11115	11/11/15	0836	2	S	X	X	X	X	X
5		CB-1(0-6)-11115	11/11/15	0845	2	S	X	X	X	X	X
6		W-3(0-6)-11115	11/11/15	0902	2	S	X	X	X	X	X
7		W-2(0-5)-11115	11/11/15	0916	2	S	X	X	X	X	X
8		W-1(0-7)-11115	11/11/15	0929	2	S	X	X	X	X	X
9		W-1(7-14)-11115	11/11/15	0933	2	S	X	X	X	X	X
10		MG-1(0-5)-11115	11/11/15	0952	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  
 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>11/11/15</u>	Time <u>1540</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>11/11/15</u>	Time <u>1540</u>	Lab Courier <input checked="" type="checkbox"/>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>11/11/15</u>	Time <u>1730</u>	Received By <u>[Signature]</u>	Company <u>TAL</u>	Date <u>11/12/15</u>	Time <u>0800</u>	Shipped <input type="checkbox"/>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	Hand Delivered <input type="checkbox"/>

- 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 333 : IL Route 120 Office Phone Number, if available: \_\_\_\_\_

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

40 E. Belvidere Road (ISGS Site No. 2464V-19)

City: Hainesville 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: 42.344977980 Longitude: -88.067147794  
(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

Project Name: FAP 333 : IL Route 120

Latitude: 42.344977980 Longitude: -88.067147794

**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 W-1 THROUGH W-3 WERE SAMPLED ADJACENT TO ISGS SITE No. 2464V-19. SEE FIGURE 3-1 AND TABLE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - JOB ID: 500-103903-1  
ALSO SEE FIGURE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

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

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

Company Name: Weston Solutions, Inc.  
 Street Address: 300 Circle Plaza; Suite 202  
 City: Mundelein State: IL Zip Code: 60060  
 Phone: (224) 864-7200

William F. Karlovitz, P.E.  
 Printed Name:

*William F. Karlovitz*

7 March 2016

Date:

Licensed Professional Engineer or  
 Licensed Professional Geologist Signature:



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



**Summary Table of ISGS Site No. 2464V-19**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAP 333: IL Route 120 at Hainesville Road**  
**Hainesville, Lake County, Illinois**

Field Sample ID	W-1(0-7)-111115	W-1(7-14)-111115	W-2(0-5)-111115	W-3(0-6)-111115	Soil Reference Concentrations <sup>A</sup>
Sample Date	11/11/2015	11/11/2015	11/11/2015	11/11/2015	
Location ID	W-1	W-1	W-2	W-3	
Depth	0 - 7	7 - 14	0 - 5	0 - 6	
Location Code	2464V-19	2464V-19	2464V-19	2464V-19	
<b>Parameter</b>					
Laboratory pH	8.33	8.11	7.81	7.97	<6.25, >9.0
<b>VOCs (ug/kg)</b>	No Exceedances				
<b>SVOCs (ug/kg)</b>	No Exceedances				
<b>Total Metals (mg/kg)</b>					
Antimony, Total	0.39 J	ND	0.43 J	ND	5
Arsenic, Total	5.1 J-	3.1 J-	6.4 J-	7.8 J-	11.3 / 13.0
Barium, Total	38 J	30 J	76 J	93 J	1500
Beryllium, Total	0.39 J	0.49 J	0.65 J	0.71 J	22
Cadmium, Total	0.22 J	0.23 J	0.28 J	0.39 J	5.2
Calcium, Total	75000 J	96000 J	25000 J	72000 J	---
Chromium, Total	11 B	14 B	18 B	18 B	21
Cobalt, Total	5.8 J	9.9 J	9.9 J	12 J	20
Copper, Total	16 J	23 J	23 J	26 J	2900
Iron, Total	12000 J	15000 J	19000 J	21000 J	15000 / 15900
Lead, Total	9.5 J	10 J	19 J	42 J	107
Magnesium, Total	27000 J	34000 J	18000 J	28000 J	325000
Manganese, Total	270 J	420 J	380 J	520 J	630 / 636
Mercury, Total	0.016 J	0.018 J	0.02	0.022	0.89
Nickel, Total	16 J	26 J	29 J	32 J	100
Potassium, Total	1400 J	2100 J	1900 J	1800 J	---
Selenium, Total	0.64 J-	0.67 J-	ND	0.48 J	1.3
Silver, Total	ND	ND	ND	ND	4.4
Sodium, Total	170	210	630	1400	---
Vanadium, Total	16	16	22	24	550
Zinc, Total	40 J	46 J	61 J	67 J	5100
<b>TCLP Metals (mg/l)</b>					
Barium, TCLP	0.43 J	0.41 J	0.81	0.9	2
Cadmium, TCLP	0.0024 J	0.0025 J	0.0033 J	0.0035 J	0.005
Cobalt, TCLP	ND	ND	0.027	ND	1
Copper, TCLP	0.02 J	0.022 J	0.018 J	ND	0.65
Iron, TCLP	ND	ND	ND	0.21	5
Lead, TCLP	ND	ND	ND	0.12	0.0075
Manganese, TCLP	0.38	1.6	9.7	6.3	0.15
Mercury, TCLP	ND	ND	ND	ND	0.002
Nickel, TCLP	ND	0.016 J	0.032	ND	0.1
Zinc, TCLP	ND	ND	ND	ND	5
<b>SPLP Metals (mg/l)</b>					
Arsenic, SPLP	0.028 J	0.016 J	ND	0.016 J	0.05
Barium, SPLP	0.28 J	0.24 J	ND	0.48 J	2
Beryllium, SPLP	ND	ND	ND	ND	0.004
Cadmium, SPLP	ND	ND	ND	ND	0.005
Chromium, SPLP	0.08	0.085	ND	0.087	0.1
Cobalt, SPLP	0.017 J	0.033	ND	0.025	1
Copper, SPLP	0.1	0.098	ND	0.093	0.65
Iron, SPLP	74 J+	69 J+	0.82 J+	72 J+	5
Lead, SPLP	0.035	0.039	ND	0.35	0.0075
Manganese, SPLP	0.31	0.5	ND	0.55	0.15
Mercury, SPLP	ND	ND	ND	ND	0.002
Nickel, SPLP	0.07	0.1	ND	0.083	0.1
Zinc, SPLP	0.24 J	0.19 J	ND	0.3 J	5

**Summary Table of ISGS Site No. 2464V-19**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAP 333: IL Route 120 at Hainesville Road**  
**Hainesville, Lake County, Illinois**

**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.


B - Constituent detected in the blank and investigative sample.

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

J- - Estimated concentration, biased low.

J+ - Estimated concentration, biased high.

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

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

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

TestAmerica Job ID: 500-103903-1

Client Project/Site: IDOT - Illinois Route 120 - WO 027

For:

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

Attn: Mr. S. Babusukumar



Authorized for release by:  
11/25/2015 4:09:58 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 - Illinois Route 120 - WO 027

TestAmerica Job ID: 500-103903-1

**Client Sample ID: W-3(0-6)-111115**

**Lab Sample ID: 500-103903-6**

**Date Collected: 11/11/15 09:02**

**Matrix: Solid**

**Date Received: 11/12/15 08:00**

**Percent Solids: 78.3**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	55		26	4.9	ug/Kg	☼		11/13/15 11:34	1
Benzene	<6.4		6.4	1.4	ug/Kg	☼		11/13/15 11:34	1
Bromodichloromethane	<6.4		6.4	1.1	ug/Kg	☼		11/13/15 11:34	1
Bromoform	<6.4		6.4	1.3	ug/Kg	☼		11/13/15 11:34	1
Bromomethane	<6.4 *		6.4	2.4	ug/Kg	☼		11/13/15 11:34	1
Carbon disulfide	<6.4		6.4	2.4	ug/Kg	☼		11/13/15 11:34	1
Carbon tetrachloride	<6.4		6.4	1.4	ug/Kg	☼		11/13/15 11:34	1
Chlorobenzene	<6.4		6.4	1.5	ug/Kg	☼		11/13/15 11:34	1
Chloroethane	<6.4		6.4	2.7	ug/Kg	☼		11/13/15 11:34	1
Chloroform	<6.4		6.4	1.2	ug/Kg	☼		11/13/15 11:34	1
Chloromethane	<6.4		6.4	1.5	ug/Kg	☼		11/13/15 11:34	1
cis-1,2-Dichloroethene	<6.4		6.4	1.3	ug/Kg	☼		11/13/15 11:34	1
cis-1,3-Dichloropropene	<6.4		6.4	1.5	ug/Kg	☼		11/13/15 11:34	1
Dibromochloromethane	<6.4		6.4	0.73	ug/Kg	☼		11/13/15 11:34	1
1,1-Dichloroethane	<6.4		6.4	1.3	ug/Kg	☼		11/13/15 11:34	1
1,2-Dichloroethane	<6.4		6.4	0.95	ug/Kg	☼		11/13/15 11:34	1
1,1-Dichloroethene	<6.4		6.4	2.3	ug/Kg	☼		11/13/15 11:34	1
1,2-Dichloropropane	<6.4		6.4	1.7	ug/Kg	☼		11/13/15 11:34	1
1,3-Dichloropropene, Total	<6.4		6.4	1.8	ug/Kg	☼		11/13/15 11:34	1
Ethylbenzene	<6.4		6.4	1.6	ug/Kg	☼		11/13/15 11:34	1
2-Hexanone	<6.4		6.4	2.0	ug/Kg	☼		11/13/15 11:34	1
Methylene Chloride	<6.4		6.4	4.8	ug/Kg	☼		11/13/15 11:34	1
Methyl Ethyl Ketone	<6.4		6.4	2.3	ug/Kg	☼		11/13/15 11:34	1
methyl isobutyl ketone	<6.4		6.4	1.3	ug/Kg	☼		11/13/15 11:34	1
Methyl tert-butyl ether	<6.4		6.4	1.5	ug/Kg	☼		11/13/15 11:34	1
Styrene	<6.4		6.4	1.5	ug/Kg	☼		11/13/15 11:34	1
1,1,2,2-Tetrachloroethane	<6.4		6.4	1.0	ug/Kg	☼		11/13/15 11:34	1
Tetrachloroethene	<6.4		6.4	1.3	ug/Kg	☼		11/13/15 11:34	1
Toluene	<6.4		6.4	2.2	ug/Kg	☼		11/13/15 11:34	1
trans-1,2-Dichloroethene	<6.4		6.4	1.6	ug/Kg	☼		11/13/15 11:34	1
trans-1,3-Dichloropropene	<6.4		6.4	1.8	ug/Kg	☼		11/13/15 11:34	1
1,1,1-Trichloroethane	<6.4		6.4	1.5	ug/Kg	☼		11/13/15 11:34	1
1,1,2-Trichloroethane	<6.4		6.4	1.2	ug/Kg	☼		11/13/15 11:34	1
Trichloroethene	<6.4		6.4	1.7	ug/Kg	☼		11/13/15 11:34	1
Vinyl chloride	<6.4		6.4	1.5	ug/Kg	☼		11/13/15 11:34	1
Xylenes, Total	<13		13	2.4	ug/Kg	☼		11/13/15 11:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 122		11/13/15 11:34	1
Dibromofluoromethane	99		75 - 120		11/13/15 11:34	1
1,2-Dichloroethane-d4 (Surr)	115		70 - 134		11/13/15 11:34	1
Toluene-d8 (Surr)	112		75 - 122		11/13/15 11:34	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	☼	11/13/15 07:26	11/19/15 14:36	1
1,2-Dichlorobenzene	<210		210	50	ug/Kg	☼	11/13/15 07:26	11/19/15 14:36	1
1,3-Dichlorobenzene	<210		210	47	ug/Kg	☼	11/13/15 07:26	11/19/15 14:36	1
1,4-Dichlorobenzene	<210		210	53	ug/Kg	☼	11/13/15 07:26	11/19/15 14:36	1
2,2'-oxybis[1-chloropropane]	<210		210	48	ug/Kg	☼	11/13/15 07:26	11/19/15 14:36	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - Illinois Route 120 - WO 027

TestAmerica Job ID: 500-103903-1

**Client Sample ID: W-3(0-6)-111115**

**Lab Sample ID: 500-103903-6**

**Date Collected: 11/11/15 09:02**

**Matrix: Solid**

**Date Received: 11/12/15 08:00**

**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	95	ug/Kg	☼	11/13/15 07:26	11/19/15 14:36	1
2,4,6-Trichlorophenol	<410		410	140	ug/Kg	☼	11/13/15 07:26	11/19/15 14:36	1
2,4-Dichlorophenol	<410		410	99	ug/Kg	☼	11/13/15 07:26	11/19/15 14:36	1
2,4-Dimethylphenol	<410		410	160	ug/Kg	☼	11/13/15 07:26	11/19/15 14:36	1
2,4-Dinitrophenol	<840		840	730	ug/Kg	☼	11/13/15 07:26	11/19/15 14:36	1
2,4-Dinitrotoluene	<210		210	66	ug/Kg	☼	11/13/15 07:26	11/19/15 14:36	1
2,6-Dinitrotoluene	<210		210	82	ug/Kg	☼	11/13/15 07:26	11/19/15 14:36	1
2-Chloronaphthalene	<210		210	46	ug/Kg	☼	11/13/15 07:26	11/19/15 14:36	1
2-Chlorophenol	<210		210	71	ug/Kg	☼	11/13/15 07:26	11/19/15 14:36	1
2-Methylnaphthalene	<41		41	7.7	ug/Kg	☼	11/13/15 07:26	11/19/15 14:36	1
2-Methylphenol	<210		210	67	ug/Kg	☼	11/13/15 07:26	11/19/15 14:36	1
2-Nitroaniline	<210		210	56	ug/Kg	☼	11/13/15 07:26	11/19/15 14:36	1
2-Nitrophenol	<410		410	98	ug/Kg	☼	11/13/15 07:26	11/19/15 14:36	1
3 & 4 Methylphenol	<210		210	69	ug/Kg	☼	11/13/15 07:26	11/19/15 14:36	1
3,3'-Dichlorobenzidine	<210		210	58	ug/Kg	☼	11/13/15 07:26	11/19/15 14:36	1
3-Nitroaniline	<410		410	130	ug/Kg	☼	11/13/15 07:26	11/19/15 14:36	1
4,6-Dinitro-2-methylphenol	<840		840	330	ug/Kg	☼	11/13/15 07:26	11/19/15 14:36	1
4-Bromophenyl phenyl ether	<210		210	55	ug/Kg	☼	11/13/15 07:26	11/19/15 14:36	1
4-Chloro-3-methylphenol	<410		410	140	ug/Kg	☼	11/13/15 07:26	11/19/15 14:36	1
4-Chloroaniline	<840		840	200	ug/Kg	☼	11/13/15 07:26	11/19/15 14:36	1
4-Chlorophenyl phenyl ether	<210		210	49	ug/Kg	☼	11/13/15 07:26	11/19/15 14:36	1
4-Nitroaniline	<410		410	170	ug/Kg	☼	11/13/15 07:26	11/19/15 14:36	1
4-Nitrophenol	<840		840	400	ug/Kg	☼	11/13/15 07:26	11/19/15 14:36	1
Acenaphthene	<41		41	7.5	ug/Kg	☼	11/13/15 07:26	11/19/15 14:36	1
Acenaphthylene	<41		41	5.5	ug/Kg	☼	11/13/15 07:26	11/19/15 14:36	1
Anthracene	<41		41	7.0	ug/Kg	☼	11/13/15 07:26	11/19/15 14:36	1
<b>Benzo[a]anthracene</b>	<b>16 J</b>		41	5.6	ug/Kg	☼	11/13/15 07:26	11/19/15 14:36	1
<b>Benzo[a]pyrene</b>	<b>17 J</b>		41	8.1	ug/Kg	☼	11/13/15 07:26	11/19/15 14:36	1
Benzo[b]fluoranthene	<41		41	9.0	ug/Kg	☼	11/13/15 07:26	11/19/15 14:36	1
Benzo[g,h,i]perylene	<41		41	13	ug/Kg	☼	11/13/15 07:26	11/19/15 14:36	1
Benzo[k]fluoranthene	<41		41	12	ug/Kg	☼	11/13/15 07:26	11/19/15 14:36	1
Bis(2-chloroethoxy)methane	<210		210	42	ug/Kg	☼	11/13/15 07:26	11/19/15 14:36	1
Bis(2-chloroethyl)ether	<210		210	62	ug/Kg	☼	11/13/15 07:26	11/19/15 14:36	1
Bis(2-ethylhexyl) phthalate	<210		210	76	ug/Kg	☼	11/13/15 07:26	11/19/15 14:36	1
Butyl benzyl phthalate	<210		210	79	ug/Kg	☼	11/13/15 07:26	11/19/15 14:36	1
Carbazole	<210		210	100	ug/Kg	☼	11/13/15 07:26	11/19/15 14:36	1
<b>Chrysene</b>	<b>21 J</b>		41	11	ug/Kg	☼	11/13/15 07:26	11/19/15 14:36	1
Dibenz(a,h)anthracene	<41		41	8.0	ug/Kg	☼	11/13/15 07:26	11/19/15 14:36	1
Dibenzofuran	<210		210	49	ug/Kg	☼	11/13/15 07:26	11/19/15 14:36	1
Diethyl phthalate	<210		210	71	ug/Kg	☼	11/13/15 07:26	11/19/15 14:36	1
Dimethyl phthalate	<210		210	54	ug/Kg	☼	11/13/15 07:26	11/19/15 14:36	1
Di-n-butyl phthalate	<210		210	63	ug/Kg	☼	11/13/15 07:26	11/19/15 14:36	1
Di-n-octyl phthalate	<210		210	68	ug/Kg	☼	11/13/15 07:26	11/19/15 14:36	1
<b>Fluoranthene</b>	<b>32 J</b>		41	7.7	ug/Kg	☼	11/13/15 07:26	11/19/15 14:36	1
Fluorene	<41		41	5.9	ug/Kg	☼	11/13/15 07:26	11/19/15 14:36	1
Hexachlorobenzene	<84		84	9.7	ug/Kg	☼	11/13/15 07:26	11/19/15 14:36	1
Hexachlorobutadiene	<210		210	65	ug/Kg	☼	11/13/15 07:26	11/19/15 14:36	1
Hexachlorocyclopentadiene	<840		840	240	ug/Kg	☼	11/13/15 07:26	11/19/15 14:36	1
Hexachloroethane	<210		210	63	ug/Kg	☼	11/13/15 07:26	11/19/15 14:36	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Illinois Route 120 - WO 027

TestAmerica Job ID: 500-103903-1

**Client Sample ID: W-3(0-6)-111115**

**Lab Sample ID: 500-103903-6**

**Date Collected: 11/11/15 09:02**

**Matrix: Solid**

**Date Received: 11/12/15 08:00**

**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	☼	11/13/15 07:26	11/19/15 14:36	1
Isophorone	<210		210	47	ug/Kg	☼	11/13/15 07:26	11/19/15 14:36	1
Naphthalene	<41		41	6.4	ug/Kg	☼	11/13/15 07:26	11/19/15 14:36	1
Nitrobenzene	<41		41	10	ug/Kg	☼	11/13/15 07:26	11/19/15 14:36	1
N-Nitrosodi-n-propylamine	<210		210	51	ug/Kg	☼	11/13/15 07:26	11/19/15 14:36	1
N-Nitrosodiphenylamine	<210		210	49	ug/Kg	☼	11/13/15 07:26	11/19/15 14:36	1
Pentachlorophenol	<840		840	670	ug/Kg	☼	11/13/15 07:26	11/19/15 14:36	1
<b>Phenanthrene</b>	<b>15</b>	<b>J</b>	41	5.8	ug/Kg	☼	11/13/15 07:26	11/19/15 14:36	1
Phenol	<210		210	93	ug/Kg	☼	11/13/15 07:26	11/19/15 14:36	1
<b>Pyrene</b>	<b>31</b>	<b>J</b>	41	8.3	ug/Kg	☼	11/13/15 07:26	11/19/15 14:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	109		35 - 137	11/13/15 07:26	11/19/15 14:36	1
2-Fluorobiphenyl	93		25 - 119	11/13/15 07:26	11/19/15 14:36	1
2-Fluorophenol	77		25 - 110	11/13/15 07:26	11/19/15 14:36	1
Nitrobenzene-d5	90		25 - 115	11/13/15 07:26	11/19/15 14:36	1
Phenol-d5	71		31 - 110	11/13/15 07:26	11/19/15 14:36	1
Terphenyl-d14	112		36 - 134	11/13/15 07:26	11/19/15 14:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		11/22/15 23:18	11/23/15 22:06	1
<b>Barium</b>	<b>0.90</b>		0.50	0.050	mg/L		11/22/15 23:18	11/23/15 22:06	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/22/15 23:18	11/23/15 22:06	1
<b>Cadmium</b>	<b>0.0035</b>	<b>J</b>	0.0050	0.0020	mg/L		11/22/15 23:18	11/23/15 22:06	1
Chromium	<0.025		0.025	0.010	mg/L		11/22/15 23:18	11/23/15 22:06	1
Cobalt	<0.025		0.025	0.010	mg/L		11/22/15 23:18	11/23/15 22:06	1
Copper	<0.025		0.025	0.010	mg/L		11/22/15 23:18	11/23/15 22:06	1
<b>Iron</b>	<b>0.21</b>		0.20	0.20	mg/L		11/22/15 23:18	11/23/15 22:06	1
<b>Lead</b>	<b>0.12</b>		0.0075	0.0075	mg/L		11/22/15 23:18	11/23/15 22:06	1
<b>Manganese</b>	<b>6.3</b>		0.025	0.010	mg/L		11/22/15 23:18	11/23/15 22:06	1
Nickel	<0.025		0.025	0.010	mg/L		11/22/15 23:18	11/23/15 22:06	1
Selenium	<0.050		0.050	0.020	mg/L		11/22/15 23:18	11/23/15 22:06	1
Silver	<0.025		0.025	0.010	mg/L		11/22/15 23:18	11/23/15 22:06	1
<b>Zinc</b>	<b>0.15</b>	<b>J</b>	0.50	0.020	mg/L		11/22/15 23:18	11/23/15 22:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.016</b>	<b>J</b>	0.050	0.010	mg/L		11/23/15 17:00	11/24/15 21:26	1
<b>Barium</b>	<b>0.48</b>	<b>J</b>	0.50	0.050	mg/L		11/23/15 17:00	11/24/15 21:26	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/23/15 17:00	11/24/15 21:26	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/23/15 17:00	11/24/15 21:26	1
<b>Chromium</b>	<b>0.087</b>		0.025	0.010	mg/L		11/23/15 17:00	11/24/15 21:26	1
<b>Cobalt</b>	<b>0.025</b>		0.025	0.010	mg/L		11/23/15 17:00	11/24/15 21:26	1
<b>Copper</b>	<b>0.093</b>		0.025	0.010	mg/L		11/23/15 17:00	11/24/15 21:26	1
<b>Iron</b>	<b>72</b>		0.20	0.20	mg/L		11/23/15 17:00	11/24/15 21:26	1
<b>Lead</b>	<b>0.35</b>		0.038	0.038	mg/L		11/23/15 17:00	11/25/15 12:01	5
<b>Manganese</b>	<b>0.55</b>		0.025	0.010	mg/L		11/23/15 17:00	11/24/15 21:26	1
<b>Nickel</b>	<b>0.083</b>		0.025	0.010	mg/L		11/23/15 17:00	11/24/15 21:26	1
Selenium	<0.050		0.050	0.020	mg/L		11/23/15 17:00	11/24/15 21:26	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - Illinois Route 120 - WO 027

TestAmerica Job ID: 500-103903-1

**Client Sample ID: W-3(0-6)-111115**

**Lab Sample ID: 500-103903-6**

**Date Collected: 11/11/15 09:02**

**Matrix: Solid**

**Date Received: 11/12/15 08:00**

**Percent Solids: 78.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		11/23/15 17:00	11/24/15 21:26	1
<b>Zinc</b>	<b>0.30</b>	<b>J</b>	0.50	0.020	mg/L		11/23/15 17:00	11/24/15 21:26	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	☼	11/17/15 18:42	11/20/15 02:43	1
<b>Arsenic</b>	<b>7.8</b>		0.58	0.27	mg/Kg	☼	11/17/15 18:42	11/20/15 02:43	1
<b>Barium</b>	<b>93</b>		0.58	0.11	mg/Kg	☼	11/17/15 18:42	11/20/15 02:43	1
<b>Beryllium</b>	<b>0.71</b>		0.23	0.050	mg/Kg	☼	11/17/15 18:42	11/20/15 02:43	1
<b>Cadmium</b>	<b>0.39</b>		0.12	0.034	mg/Kg	☼	11/17/15 18:42	11/20/15 02:43	1
<b>Calcium</b>	<b>72000</b>		120	38	mg/Kg	☼	11/17/15 18:42	11/20/15 21:19	10
<b>Chromium</b>	<b>18</b>	<b>B</b>	0.58	0.10	mg/Kg	☼	11/17/15 18:42	11/20/15 02:43	1
<b>Cobalt</b>	<b>12</b>		0.29	0.066	mg/Kg	☼	11/17/15 18:42	11/20/15 02:43	1
<b>Copper</b>	<b>26</b>		0.58	0.13	mg/Kg	☼	11/17/15 18:42	11/20/15 02:43	1
<b>Iron</b>	<b>21000</b>		12	4.5	mg/Kg	☼	11/17/15 18:42	11/20/15 02:43	1
<b>Lead</b>	<b>42</b>		0.29	0.15	mg/Kg	☼	11/17/15 18:42	11/20/15 02:43	1
<b>Magnesium</b>	<b>28000</b>	<b>B</b>	5.8	2.4	mg/Kg	☼	11/17/15 18:42	11/20/15 02:43	1
<b>Manganese</b>	<b>520</b>		0.58	0.12	mg/Kg	☼	11/17/15 18:42	11/20/15 02:43	1
<b>Nickel</b>	<b>32</b>	<b>^</b>	0.58	0.16	mg/Kg	☼	11/17/15 18:42	11/20/15 02:43	1
<b>Potassium</b>	<b>1800</b>		29	4.8	mg/Kg	☼	11/17/15 18:42	11/20/15 02:43	1
<b>Selenium</b>	<b>0.48</b>	<b>J</b>	0.58	0.29	mg/Kg	☼	11/17/15 18:42	11/20/15 02:43	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	11/17/15 18:42	11/20/15 02:43	1
<b>Sodium</b>	<b>1400</b>		58	7.7	mg/Kg	☼	11/17/15 18:42	11/20/15 02:43	1
Thallium	<0.58		0.58	0.29	mg/Kg	☼	11/17/15 18:42	11/20/15 02:43	1
<b>Vanadium</b>	<b>24</b>		0.29	0.085	mg/Kg	☼	11/17/15 18:42	11/20/15 02:43	1
<b>Zinc</b>	<b>67</b>	<b>^</b>	1.2	0.37	mg/Kg	☼	11/17/15 18:42	11/20/15 02:43	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		11/23/15 18:30	11/24/15 15:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		11/23/15 20:30	11/24/15 13:43	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>22</b>		20	7.1	ug/Kg	☼	11/16/15 15:00	11/17/15 11:56	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.97</b>		0.200	0.200	SU			11/21/15 11:12	1

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - Illinois Route 120 - WO 027

TestAmerica Job ID: 500-103903-1

**Client Sample ID: W-2(0-5)-111115**

**Lab Sample ID: 500-103903-7**

**Date Collected: 11/11/15 09:16**

**Matrix: Solid**

**Date Received: 11/12/15 08:00**

**Percent Solids: 81.8**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	30		24	4.7	ug/Kg	☼		11/13/15 11:59	1
Benzene	<6.1		6.1	1.4	ug/Kg	☼		11/13/15 11:59	1
Bromodichloromethane	<6.1		6.1	1.0	ug/Kg	☼		11/13/15 11:59	1
Bromoform	<6.1		6.1	1.2	ug/Kg	☼		11/13/15 11:59	1
Bromomethane	<6.1 *		6.1	2.2	ug/Kg	☼		11/13/15 11:59	1
Carbon disulfide	<6.1		6.1	2.2	ug/Kg	☼		11/13/15 11:59	1
Carbon tetrachloride	<6.1		6.1	1.3	ug/Kg	☼		11/13/15 11:59	1
Chlorobenzene	<6.1		6.1	1.4	ug/Kg	☼		11/13/15 11:59	1
Chloroethane	<6.1		6.1	2.6	ug/Kg	☼		11/13/15 11:59	1
Chloroform	<6.1		6.1	1.2	ug/Kg	☼		11/13/15 11:59	1
Chloromethane	<6.1		6.1	1.5	ug/Kg	☼		11/13/15 11:59	1
cis-1,2-Dichloroethene	<6.1		6.1	1.2	ug/Kg	☼		11/13/15 11:59	1
cis-1,3-Dichloropropene	<6.1		6.1	1.4	ug/Kg	☼		11/13/15 11:59	1
Dibromochloromethane	<6.1		6.1	0.70	ug/Kg	☼		11/13/15 11:59	1
1,1-Dichloroethane	<6.1		6.1	1.3	ug/Kg	☼		11/13/15 11:59	1
1,2-Dichloroethane	<6.1		6.1	0.91	ug/Kg	☼		11/13/15 11:59	1
1,1-Dichloroethene	<6.1		6.1	2.2	ug/Kg	☼		11/13/15 11:59	1
1,2-Dichloropropane	<6.1		6.1	1.6	ug/Kg	☼		11/13/15 11:59	1
1,3-Dichloropropene, Total	<6.1		6.1	1.7	ug/Kg	☼		11/13/15 11:59	1
Ethylbenzene	<6.1		6.1	1.5	ug/Kg	☼		11/13/15 11:59	1
2-Hexanone	<6.1		6.1	1.9	ug/Kg	☼		11/13/15 11:59	1
Methylene Chloride	<6.1		6.1	4.6	ug/Kg	☼		11/13/15 11:59	1
Methyl Ethyl Ketone	<6.1		6.1	2.2	ug/Kg	☼		11/13/15 11:59	1
methyl isobutyl ketone	<6.1		6.1	1.3	ug/Kg	☼		11/13/15 11:59	1
Methyl tert-butyl ether	<6.1		6.1	1.4	ug/Kg	☼		11/13/15 11:59	1
Styrene	<6.1		6.1	1.4	ug/Kg	☼		11/13/15 11:59	1
1,1,2,2-Tetrachloroethane	<6.1		6.1	0.97	ug/Kg	☼		11/13/15 11:59	1
Tetrachloroethene	<6.1		6.1	1.3	ug/Kg	☼		11/13/15 11:59	1
Toluene	<6.1		6.1	2.1	ug/Kg	☼		11/13/15 11:59	1
trans-1,2-Dichloroethene	<6.1		6.1	1.5	ug/Kg	☼		11/13/15 11:59	1
trans-1,3-Dichloropropene	<6.1		6.1	1.7	ug/Kg	☼		11/13/15 11:59	1
1,1,1-Trichloroethane	<6.1		6.1	1.4	ug/Kg	☼		11/13/15 11:59	1
1,1,2-Trichloroethane	<6.1		6.1	1.2	ug/Kg	☼		11/13/15 11:59	1
Trichloroethene	<6.1		6.1	1.7	ug/Kg	☼		11/13/15 11:59	1
Vinyl chloride	<6.1		6.1	1.5	ug/Kg	☼		11/13/15 11:59	1
Xylenes, Total	<12		12	2.3	ug/Kg	☼		11/13/15 11:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 122		11/13/15 11:59	1
Dibromofluoromethane	104		75 - 120		11/13/15 11:59	1
1,2-Dichloroethane-d4 (Surr)	119		70 - 134		11/13/15 11:59	1
Toluene-d8 (Surr)	110		75 - 122		11/13/15 11:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<200		200	43	ug/Kg	☼	11/13/15 07:26	11/19/15 12:10	1
1,2-Dichlorobenzene	<200		200	47	ug/Kg	☼	11/13/15 07:26	11/19/15 12:10	1
1,3-Dichlorobenzene	<200		200	45	ug/Kg	☼	11/13/15 07:26	11/19/15 12:10	1
1,4-Dichlorobenzene	<200		200	51	ug/Kg	☼	11/13/15 07:26	11/19/15 12:10	1
2,2'-oxybis[1-chloropropane]	<200		200	46	ug/Kg	☼	11/13/15 07:26	11/19/15 12:10	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - Illinois Route 120 - WO 027

TestAmerica Job ID: 500-103903-1

**Client Sample ID: W-2(0-5)-111115**

**Lab Sample ID: 500-103903-7**

**Date Collected: 11/11/15 09:16**

**Matrix: Solid**

**Date Received: 11/12/15 08:00**

**Percent Solids: 81.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<390		390	90	ug/Kg	☼	11/13/15 07:26	11/19/15 12:10	1
2,4,6-Trichlorophenol	<390		390	140	ug/Kg	☼	11/13/15 07:26	11/19/15 12:10	1
2,4-Dichlorophenol	<390		390	94	ug/Kg	☼	11/13/15 07:26	11/19/15 12:10	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	11/13/15 07:26	11/19/15 12:10	1
2,4-Dinitrophenol	<800		800	700	ug/Kg	☼	11/13/15 07:26	11/19/15 12:10	1
2,4-Dinitrotoluene	<200		200	63	ug/Kg	☼	11/13/15 07:26	11/19/15 12:10	1
2,6-Dinitrotoluene	<200		200	78	ug/Kg	☼	11/13/15 07:26	11/19/15 12:10	1
2-Chloronaphthalene	<200		200	44	ug/Kg	☼	11/13/15 07:26	11/19/15 12:10	1
2-Chlorophenol	<200		200	67	ug/Kg	☼	11/13/15 07:26	11/19/15 12:10	1
2-Methylnaphthalene	<39		39	7.3	ug/Kg	☼	11/13/15 07:26	11/19/15 12:10	1
2-Methylphenol	<200		200	63	ug/Kg	☼	11/13/15 07:26	11/19/15 12:10	1
2-Nitroaniline	<200		200	53	ug/Kg	☼	11/13/15 07:26	11/19/15 12:10	1
2-Nitrophenol	<390		390	93	ug/Kg	☼	11/13/15 07:26	11/19/15 12:10	1
3 & 4 Methylphenol	<200		200	66	ug/Kg	☼	11/13/15 07:26	11/19/15 12:10	1
3,3'-Dichlorobenzidine	<200		200	55	ug/Kg	☼	11/13/15 07:26	11/19/15 12:10	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	11/13/15 07:26	11/19/15 12:10	1
4,6-Dinitro-2-methylphenol	<800		800	320	ug/Kg	☼	11/13/15 07:26	11/19/15 12:10	1
4-Bromophenyl phenyl ether	<200		200	52	ug/Kg	☼	11/13/15 07:26	11/19/15 12:10	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	11/13/15 07:26	11/19/15 12:10	1
4-Chloroaniline	<800		800	190	ug/Kg	☼	11/13/15 07:26	11/19/15 12:10	1
4-Chlorophenyl phenyl ether	<200		200	46	ug/Kg	☼	11/13/15 07:26	11/19/15 12:10	1
4-Nitroaniline	<390		390	170	ug/Kg	☼	11/13/15 07:26	11/19/15 12:10	1
4-Nitrophenol	<800		800	380	ug/Kg	☼	11/13/15 07:26	11/19/15 12:10	1
Acenaphthene	<39		39	7.1	ug/Kg	☼	11/13/15 07:26	11/19/15 12:10	1
Acenaphthylene	<39		39	5.2	ug/Kg	☼	11/13/15 07:26	11/19/15 12:10	1
Anthracene	<39		39	6.6	ug/Kg	☼	11/13/15 07:26	11/19/15 12:10	1
Benzo[a]anthracene	<39		39	5.3	ug/Kg	☼	11/13/15 07:26	11/19/15 12:10	1
Benzo[a]pyrene	<39		39	7.7	ug/Kg	☼	11/13/15 07:26	11/19/15 12:10	1
Benzo[b]fluoranthene	<39		39	8.5	ug/Kg	☼	11/13/15 07:26	11/19/15 12:10	1
Benzo[g,h,i]perylene	<39		39	13	ug/Kg	☼	11/13/15 07:26	11/19/15 12:10	1
Benzo[k]fluoranthene	<39		39	12	ug/Kg	☼	11/13/15 07:26	11/19/15 12:10	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	☼	11/13/15 07:26	11/19/15 12:10	1
Bis(2-chloroethyl)ether	<200		200	59	ug/Kg	☼	11/13/15 07:26	11/19/15 12:10	1
Bis(2-ethylhexyl) phthalate	<200		200	72	ug/Kg	☼	11/13/15 07:26	11/19/15 12:10	1
Butyl benzyl phthalate	<200		200	75	ug/Kg	☼	11/13/15 07:26	11/19/15 12:10	1
Carbazole	<200		200	99	ug/Kg	☼	11/13/15 07:26	11/19/15 12:10	1
Chrysene	<39		39	11	ug/Kg	☼	11/13/15 07:26	11/19/15 12:10	1
Dibenz(a,h)anthracene	<39		39	7.6	ug/Kg	☼	11/13/15 07:26	11/19/15 12:10	1
Dibenzofuran	<200		200	46	ug/Kg	☼	11/13/15 07:26	11/19/15 12:10	1
Diethyl phthalate	<200		200	67	ug/Kg	☼	11/13/15 07:26	11/19/15 12:10	1
Dimethyl phthalate	<200		200	52	ug/Kg	☼	11/13/15 07:26	11/19/15 12:10	1
Di-n-butyl phthalate	<200		200	60	ug/Kg	☼	11/13/15 07:26	11/19/15 12:10	1
Di-n-octyl phthalate	<200		200	65	ug/Kg	☼	11/13/15 07:26	11/19/15 12:10	1
Fluoranthene	<39		39	7.3	ug/Kg	☼	11/13/15 07:26	11/19/15 12:10	1
Fluorene	<39		39	5.6	ug/Kg	☼	11/13/15 07:26	11/19/15 12:10	1
Hexachlorobenzene	<80		80	9.2	ug/Kg	☼	11/13/15 07:26	11/19/15 12:10	1
Hexachlorobutadiene	<200		200	62	ug/Kg	☼	11/13/15 07:26	11/19/15 12:10	1
Hexachlorocyclopentadiene	<800		800	230	ug/Kg	☼	11/13/15 07:26	11/19/15 12:10	1
Hexachloroethane	<200		200	60	ug/Kg	☼	11/13/15 07:26	11/19/15 12:10	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Illinois Route 120 - WO 027

TestAmerica Job ID: 500-103903-1

**Client Sample ID: W-2(0-5)-111115**

**Lab Sample ID: 500-103903-7**

**Date Collected: 11/11/15 09:16**

**Matrix: Solid**

**Date Received: 11/12/15 08:00**

**Percent Solids: 81.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<39		39	10	ug/Kg	☼	11/13/15 07:26	11/19/15 12:10	1
Isophorone	<200		200	44	ug/Kg	☼	11/13/15 07:26	11/19/15 12:10	1
Naphthalene	<39		39	6.1	ug/Kg	☼	11/13/15 07:26	11/19/15 12:10	1
Nitrobenzene	<39		39	9.9	ug/Kg	☼	11/13/15 07:26	11/19/15 12:10	1
N-Nitrosodi-n-propylamine	<200		200	48	ug/Kg	☼	11/13/15 07:26	11/19/15 12:10	1
N-Nitrosodiphenylamine	<200		200	47	ug/Kg	☼	11/13/15 07:26	11/19/15 12:10	1
Pentachlorophenol	<800		800	630	ug/Kg	☼	11/13/15 07:26	11/19/15 12:10	1
Phenanthrene	<39		39	5.5	ug/Kg	☼	11/13/15 07:26	11/19/15 12:10	1
Phenol	<200		200	88	ug/Kg	☼	11/13/15 07:26	11/19/15 12:10	1
Pyrene	<39		39	7.9	ug/Kg	☼	11/13/15 07:26	11/19/15 12:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	104		35 - 137	11/13/15 07:26	11/19/15 12:10	1
2-Fluorobiphenyl	95		25 - 119	11/13/15 07:26	11/19/15 12:10	1
2-Fluorophenol	83		25 - 110	11/13/15 07:26	11/19/15 12:10	1
Nitrobenzene-d5	92		25 - 115	11/13/15 07:26	11/19/15 12:10	1
Phenol-d5	74		31 - 110	11/13/15 07:26	11/19/15 12:10	1
Terphenyl-d14	108		36 - 134	11/13/15 07:26	11/19/15 12:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		11/22/15 23:18	11/23/15 22:11	1
<b>Barium</b>	<b>0.81</b>		0.50	0.050	mg/L		11/22/15 23:18	11/23/15 22:11	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/22/15 23:18	11/23/15 22:11	1
<b>Cadmium</b>	<b>0.0033</b>	<b>J</b>	0.0050	0.0020	mg/L		11/22/15 23:18	11/23/15 22:11	1
Chromium	<0.025		0.025	0.010	mg/L		11/22/15 23:18	11/23/15 22:11	1
<b>Cobalt</b>	<b>0.027</b>		0.025	0.010	mg/L		11/22/15 23:18	11/23/15 22:11	1
<b>Copper</b>	<b>0.018</b>	<b>J</b>	0.025	0.010	mg/L		11/22/15 23:18	11/23/15 22:11	1
Iron	<0.20		0.20	0.20	mg/L		11/22/15 23:18	11/23/15 22:11	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/22/15 23:18	11/23/15 22:11	1
<b>Manganese</b>	<b>9.7</b>		0.025	0.010	mg/L		11/22/15 23:18	11/23/15 22:11	1
<b>Nickel</b>	<b>0.032</b>		0.025	0.010	mg/L		11/22/15 23:18	11/23/15 22:11	1
Selenium	<0.050		0.050	0.020	mg/L		11/22/15 23:18	11/23/15 22:11	1
Silver	<0.025		0.025	0.010	mg/L		11/22/15 23:18	11/23/15 22:11	1
<b>Zinc</b>	<b>0.046</b>	<b>J</b>	0.50	0.020	mg/L		11/22/15 23:18	11/23/15 22:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		11/23/15 17:00	11/24/15 21:30	1
Barium	<0.50		0.50	0.050	mg/L		11/23/15 17:00	11/24/15 21:30	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/23/15 17:00	11/24/15 21:30	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/23/15 17:00	11/24/15 21:30	1
Chromium	<0.025		0.025	0.010	mg/L		11/23/15 17:00	11/24/15 21:30	1
Cobalt	<0.025		0.025	0.010	mg/L		11/23/15 17:00	11/24/15 21:30	1
Copper	<0.025		0.025	0.010	mg/L		11/23/15 17:00	11/24/15 21:30	1
<b>Iron</b>	<b>0.82</b>		0.20	0.20	mg/L		11/23/15 17:00	11/24/15 21:30	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/23/15 17:00	11/24/15 21:30	1
Manganese	<0.025		0.025	0.010	mg/L		11/23/15 17:00	11/24/15 21:30	1
Nickel	<0.025		0.025	0.010	mg/L		11/23/15 17:00	11/24/15 21:30	1
Selenium	<0.050		0.050	0.020	mg/L		11/23/15 17:00	11/24/15 21:30	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - Illinois Route 120 - WO 027

TestAmerica Job ID: 500-103903-1

**Client Sample ID: W-2(0-5)-111115**

**Lab Sample ID: 500-103903-7**

**Date Collected: 11/11/15 09:16**

**Matrix: Solid**

**Date Received: 11/12/15 08:00**

**Percent Solids: 81.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		11/23/15 17:00	11/24/15 21:30	1
Zinc	<0.50		0.50	0.020	mg/L		11/23/15 17:00	11/24/15 21:30	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.43</b>	<b>J</b>	1.1	0.24	mg/Kg	☼	11/17/15 18:42	11/20/15 02:48	1
<b>Arsenic</b>	<b>6.4</b>		0.57	0.26	mg/Kg	☼	11/17/15 18:42	11/20/15 02:48	1
<b>Barium</b>	<b>76</b>		0.57	0.10	mg/Kg	☼	11/17/15 18:42	11/20/15 02:48	1
<b>Beryllium</b>	<b>0.65</b>		0.23	0.050	mg/Kg	☼	11/17/15 18:42	11/20/15 02:48	1
<b>Cadmium</b>	<b>0.28</b>		0.11	0.033	mg/Kg	☼	11/17/15 18:42	11/20/15 02:48	1
<b>Calcium</b>	<b>25000</b>		11	3.7	mg/Kg	☼	11/17/15 18:42	11/20/15 02:48	1
<b>Chromium</b>	<b>18</b>	<b>B</b>	0.57	0.098	mg/Kg	☼	11/17/15 18:42	11/20/15 02:48	1
<b>Cobalt</b>	<b>9.9</b>		0.29	0.065	mg/Kg	☼	11/17/15 18:42	11/20/15 02:48	1
<b>Copper</b>	<b>23</b>		0.57	0.12	mg/Kg	☼	11/17/15 18:42	11/20/15 02:48	1
<b>Iron</b>	<b>19000</b>		11	4.4	mg/Kg	☼	11/17/15 18:42	11/20/15 02:48	1
<b>Lead</b>	<b>19</b>		0.29	0.14	mg/Kg	☼	11/17/15 18:42	11/20/15 02:48	1
<b>Magnesium</b>	<b>18000</b>	<b>B</b>	5.7	2.3	mg/Kg	☼	11/17/15 18:42	11/20/15 02:48	1
<b>Manganese</b>	<b>380</b>		0.57	0.11	mg/Kg	☼	11/17/15 18:42	11/20/15 02:48	1
<b>Nickel</b>	<b>29</b>	<b>^</b>	0.57	0.15	mg/Kg	☼	11/17/15 18:42	11/20/15 02:48	1
<b>Potassium</b>	<b>1900</b>		29	4.7	mg/Kg	☼	11/17/15 18:42	11/20/15 02:48	1
Selenium	<0.57		0.57	0.28	mg/Kg	☼	11/17/15 18:42	11/20/15 02:48	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	11/17/15 18:42	11/20/15 02:48	1
<b>Sodium</b>	<b>630</b>		57	7.5	mg/Kg	☼	11/17/15 18:42	11/20/15 02:48	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	11/17/15 18:42	11/20/15 02:48	1
<b>Vanadium</b>	<b>22</b>		0.29	0.083	mg/Kg	☼	11/17/15 18:42	11/20/15 02:48	1
<b>Zinc</b>	<b>61</b>	<b>^</b>	1.1	0.36	mg/Kg	☼	11/17/15 18:42	11/20/15 02:48	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		11/23/15 18:30	11/24/15 15:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		11/23/15 20:30	11/24/15 13:45	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>20</b>		19	6.5	ug/Kg	☼	11/16/15 15:00	11/17/15 11:58	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.81</b>		0.200	0.200	SU			11/21/15 11:14	1

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - Illinois Route 120 - WO 027

TestAmerica Job ID: 500-103903-1

**Client Sample ID: W-1(0-7)-111115**

**Lab Sample ID: 500-103903-8**

**Date Collected: 11/11/15 09:29**

**Matrix: Solid**

**Date Received: 11/12/15 08:00**

**Percent Solids: 87.9**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.4	ug/Kg	☼		11/13/15 12:24	1
Benzene	<5.7		5.7	1.3	ug/Kg	☼		11/13/15 12:24	1
Bromodichloromethane	<5.7		5.7	0.96	ug/Kg	☼		11/13/15 12:24	1
Bromoform	<5.7		5.7	1.2	ug/Kg	☼		11/13/15 12:24	1
Bromomethane	<5.7 *		5.7	2.1	ug/Kg	☼		11/13/15 12:24	1
Carbon disulfide	<5.7		5.7	2.1	ug/Kg	☼		11/13/15 12:24	1
Carbon tetrachloride	<5.7		5.7	1.2	ug/Kg	☼		11/13/15 12:24	1
Chlorobenzene	<5.7		5.7	1.3	ug/Kg	☼		11/13/15 12:24	1
Chloroethane	<5.7		5.7	2.4	ug/Kg	☼		11/13/15 12:24	1
Chloroform	<5.7		5.7	1.1	ug/Kg	☼		11/13/15 12:24	1
Chloromethane	<5.7		5.7	1.4	ug/Kg	☼		11/13/15 12:24	1
cis-1,2-Dichloroethene	<5.7		5.7	1.2	ug/Kg	☼		11/13/15 12:24	1
cis-1,3-Dichloropropene	<5.7		5.7	1.3	ug/Kg	☼		11/13/15 12:24	1
Dibromochloromethane	<5.7		5.7	0.65	ug/Kg	☼		11/13/15 12:24	1
1,1-Dichloroethane	<5.7		5.7	1.2	ug/Kg	☼		11/13/15 12:24	1
1,2-Dichloroethane	<5.7		5.7	0.84	ug/Kg	☼		11/13/15 12:24	1
1,1-Dichloroethene	<5.7		5.7	2.1	ug/Kg	☼		11/13/15 12:24	1
1,2-Dichloropropane	<5.7		5.7	1.5	ug/Kg	☼		11/13/15 12:24	1
1,3-Dichloropropene, Total	<5.7		5.7	1.6	ug/Kg	☼		11/13/15 12:24	1
Ethylbenzene	<5.7		5.7	1.4	ug/Kg	☼		11/13/15 12:24	1
2-Hexanone	<5.7		5.7	1.8	ug/Kg	☼		11/13/15 12:24	1
Methylene Chloride	<5.7		5.7	4.3	ug/Kg	☼		11/13/15 12:24	1
Methyl Ethyl Ketone	<5.7		5.7	2.0	ug/Kg	☼		11/13/15 12:24	1
methyl isobutyl ketone	<5.7		5.7	1.2	ug/Kg	☼		11/13/15 12:24	1
Methyl tert-butyl ether	<5.7		5.7	1.3	ug/Kg	☼		11/13/15 12:24	1
Styrene	<5.7		5.7	1.3	ug/Kg	☼		11/13/15 12:24	1
1,1,2,2-Tetrachloroethane	<5.7		5.7	0.90	ug/Kg	☼		11/13/15 12:24	1
Tetrachloroethene	<5.7		5.7	1.2	ug/Kg	☼		11/13/15 12:24	1
Toluene	<5.7		5.7	2.0	ug/Kg	☼		11/13/15 12:24	1
trans-1,2-Dichloroethene	<5.7		5.7	1.4	ug/Kg	☼		11/13/15 12:24	1
trans-1,3-Dichloropropene	<5.7		5.7	1.6	ug/Kg	☼		11/13/15 12:24	1
1,1,1-Trichloroethane	<5.7		5.7	1.3	ug/Kg	☼		11/13/15 12:24	1
1,1,2-Trichloroethane	<5.7		5.7	1.1	ug/Kg	☼		11/13/15 12:24	1
Trichloroethene	<5.7		5.7	1.5	ug/Kg	☼		11/13/15 12:24	1
Vinyl chloride	<5.7		5.7	1.4	ug/Kg	☼		11/13/15 12:24	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		11/13/15 12:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 122		11/13/15 12:24	1
Dibromofluoromethane	99		75 - 120		11/13/15 12:24	1
1,2-Dichloroethane-d4 (Surr)	109		70 - 134		11/13/15 12:24	1
Toluene-d8 (Surr)	115		75 - 122		11/13/15 12:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	40	ug/Kg	☼	11/13/15 07:26	11/19/15 12:59	1
1,2-Dichlorobenzene	<190		190	44	ug/Kg	☼	11/13/15 07:26	11/19/15 12:59	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	11/13/15 07:26	11/19/15 12:59	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	11/13/15 07:26	11/19/15 12:59	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	11/13/15 07:26	11/19/15 12:59	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - Illinois Route 120 - WO 027

TestAmerica Job ID: 500-103903-1

**Client Sample ID: W-1(0-7)-111115**

**Lab Sample ID: 500-103903-8**

**Date Collected: 11/11/15 09:29**

**Matrix: Solid**

**Date Received: 11/12/15 08:00**

**Percent Solids: 87.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	85	ug/Kg	☼	11/13/15 07:26	11/19/15 12:59	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	11/13/15 07:26	11/19/15 12:59	1
2,4-Dichlorophenol	<370		370	88	ug/Kg	☼	11/13/15 07:26	11/19/15 12:59	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	11/13/15 07:26	11/19/15 12:59	1
2,4-Dinitrophenol	<750		750	660	ug/Kg	☼	11/13/15 07:26	11/19/15 12:59	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	11/13/15 07:26	11/19/15 12:59	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	11/13/15 07:26	11/19/15 12:59	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	11/13/15 07:26	11/19/15 12:59	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	11/13/15 07:26	11/19/15 12:59	1
2-Methylnaphthalene	<37		37	6.8	ug/Kg	☼	11/13/15 07:26	11/19/15 12:59	1
2-Methylphenol	<190		190	60	ug/Kg	☼	11/13/15 07:26	11/19/15 12:59	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	11/13/15 07:26	11/19/15 12:59	1
2-Nitrophenol	<370		370	88	ug/Kg	☼	11/13/15 07:26	11/19/15 12:59	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	11/13/15 07:26	11/19/15 12:59	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	11/13/15 07:26	11/19/15 12:59	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	11/13/15 07:26	11/19/15 12:59	1
4,6-Dinitro-2-methylphenol	<750		750	300	ug/Kg	☼	11/13/15 07:26	11/19/15 12:59	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	11/13/15 07:26	11/19/15 12:59	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	11/13/15 07:26	11/19/15 12:59	1
4-Chloroaniline	<750		750	170	ug/Kg	☼	11/13/15 07:26	11/19/15 12:59	1
4-Chlorophenyl phenyl ether	<190		190	43	ug/Kg	☼	11/13/15 07:26	11/19/15 12:59	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	11/13/15 07:26	11/19/15 12:59	1
4-Nitrophenol	<750		750	350	ug/Kg	☼	11/13/15 07:26	11/19/15 12:59	1
Acenaphthene	<37		37	6.7	ug/Kg	☼	11/13/15 07:26	11/19/15 12:59	1
Acenaphthylene	<37		37	4.9	ug/Kg	☼	11/13/15 07:26	11/19/15 12:59	1
Anthracene	<37		37	6.2	ug/Kg	☼	11/13/15 07:26	11/19/15 12:59	1
Benzo[a]anthracene	<37		37	5.0	ug/Kg	☼	11/13/15 07:26	11/19/15 12:59	1
Benzo[a]pyrene	<37		37	7.2	ug/Kg	☼	11/13/15 07:26	11/19/15 12:59	1
Benzo[b]fluoranthene	<37		37	8.0	ug/Kg	☼	11/13/15 07:26	11/19/15 12:59	1
Benzo[g,h,i]perylene	<37		37	12	ug/Kg	☼	11/13/15 07:26	11/19/15 12:59	1
Benzo[k]fluoranthene	<37		37	11	ug/Kg	☼	11/13/15 07:26	11/19/15 12:59	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	11/13/15 07:26	11/19/15 12:59	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	11/13/15 07:26	11/19/15 12:59	1
Bis(2-ethylhexyl) phthalate	<190		190	68	ug/Kg	☼	11/13/15 07:26	11/19/15 12:59	1
Butyl benzyl phthalate	<190		190	71	ug/Kg	☼	11/13/15 07:26	11/19/15 12:59	1
Carbazole	<190		190	93	ug/Kg	☼	11/13/15 07:26	11/19/15 12:59	1
Chrysene	<37		37	10	ug/Kg	☼	11/13/15 07:26	11/19/15 12:59	1
Dibenz(a,h)anthracene	<37		37	7.2	ug/Kg	☼	11/13/15 07:26	11/19/15 12:59	1
Dibenzofuran	<190		190	44	ug/Kg	☼	11/13/15 07:26	11/19/15 12:59	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	11/13/15 07:26	11/19/15 12:59	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	11/13/15 07:26	11/19/15 12:59	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	11/13/15 07:26	11/19/15 12:59	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	11/13/15 07:26	11/19/15 12:59	1
Fluoranthene	<37		37	6.9	ug/Kg	☼	11/13/15 07:26	11/19/15 12:59	1
Fluorene	<37		37	5.2	ug/Kg	☼	11/13/15 07:26	11/19/15 12:59	1
Hexachlorobenzene	<75		75	8.6	ug/Kg	☼	11/13/15 07:26	11/19/15 12:59	1
Hexachlorobutadiene	<190		190	58	ug/Kg	☼	11/13/15 07:26	11/19/15 12:59	1
Hexachlorocyclopentadiene	<750		750	210	ug/Kg	☼	11/13/15 07:26	11/19/15 12:59	1
Hexachloroethane	<190		190	57	ug/Kg	☼	11/13/15 07:26	11/19/15 12:59	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - Illinois Route 120 - WO 027

TestAmerica Job ID: 500-103903-1

**Client Sample ID: W-1(0-7)-111115**

**Lab Sample ID: 500-103903-8**

**Date Collected: 11/11/15 09:29**

**Matrix: Solid**

**Date Received: 11/12/15 08:00**

**Percent Solids: 87.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<37		37	9.6	ug/Kg	☼	11/13/15 07:26	11/19/15 12:59	1
Isophorone	<190		190	42	ug/Kg	☼	11/13/15 07:26	11/19/15 12:59	1
Naphthalene	<37		37	5.7	ug/Kg	☼	11/13/15 07:26	11/19/15 12:59	1
Nitrobenzene	<37		37	9.3	ug/Kg	☼	11/13/15 07:26	11/19/15 12:59	1
N-Nitrosodi-n-propylamine	<190		190	45	ug/Kg	☼	11/13/15 07:26	11/19/15 12:59	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	11/13/15 07:26	11/19/15 12:59	1
Pentachlorophenol	<750		750	600	ug/Kg	☼	11/13/15 07:26	11/19/15 12:59	1
Phenanthrene	<37		37	5.2	ug/Kg	☼	11/13/15 07:26	11/19/15 12:59	1
Phenol	<190		190	83	ug/Kg	☼	11/13/15 07:26	11/19/15 12:59	1
Pyrene	<37		37	7.4	ug/Kg	☼	11/13/15 07:26	11/19/15 12:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	77		35 - 137				11/13/15 07:26	11/19/15 12:59	1
2-Fluorobiphenyl	97		25 - 119				11/13/15 07:26	11/19/15 12:59	1
2-Fluorophenol	87		25 - 110				11/13/15 07:26	11/19/15 12:59	1
Nitrobenzene-d5	92		25 - 115				11/13/15 07:26	11/19/15 12:59	1
Phenol-d5	78		31 - 110				11/13/15 07:26	11/19/15 12:59	1
Terphenyl-d14	107		36 - 134				11/13/15 07:26	11/19/15 12:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		11/22/15 23:18	11/23/15 22:16	1
<b>Barium</b>	<b>0.43</b>	<b>J</b>	0.50	0.050	mg/L		11/22/15 23:18	11/23/15 22:16	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/22/15 23:18	11/23/15 22:16	1
<b>Cadmium</b>	<b>0.0024</b>	<b>J</b>	0.0050	0.0020	mg/L		11/22/15 23:18	11/23/15 22:16	1
Chromium	<0.025		0.025	0.010	mg/L		11/22/15 23:18	11/23/15 22:16	1
Cobalt	<0.025		0.025	0.010	mg/L		11/22/15 23:18	11/23/15 22:16	1
<b>Copper</b>	<b>0.020</b>	<b>J</b>	0.025	0.010	mg/L		11/22/15 23:18	11/23/15 22:16	1
Iron	<0.20		0.20	0.20	mg/L		11/22/15 23:18	11/23/15 22:16	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/22/15 23:18	11/23/15 22:16	1
<b>Manganese</b>	<b>0.38</b>		0.025	0.010	mg/L		11/22/15 23:18	11/23/15 22:16	1
Nickel	<0.025		0.025	0.010	mg/L		11/22/15 23:18	11/23/15 22:16	1
Selenium	<0.050		0.050	0.020	mg/L		11/22/15 23:18	11/23/15 22:16	1
Silver	<0.025		0.025	0.010	mg/L		11/22/15 23:18	11/23/15 22:16	1
<b>Zinc</b>	<b>0.040</b>	<b>J</b>	0.50	0.020	mg/L		11/22/15 23:18	11/23/15 22:16	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		11/23/15 17:00	11/24/15 21:34	1
<b>Barium</b>	<b>0.28</b>	<b>J</b>	0.50	0.050	mg/L		11/23/15 17:00	11/24/15 21:34	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/23/15 17:00	11/24/15 21:34	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/23/15 17:00	11/24/15 21:34	1
<b>Chromium</b>	<b>0.080</b>		0.025	0.010	mg/L		11/23/15 17:00	11/24/15 21:34	1
<b>Cobalt</b>	<b>0.017</b>	<b>J</b>	0.025	0.010	mg/L		11/23/15 17:00	11/24/15 21:34	1
<b>Copper</b>	<b>0.10</b>		0.025	0.010	mg/L		11/23/15 17:00	11/24/15 21:34	1
<b>Iron</b>	<b>74</b>		0.20	0.20	mg/L		11/23/15 17:00	11/24/15 21:34	1
<b>Lead</b>	<b>0.035</b>		0.0075	0.0075	mg/L		11/23/15 17:00	11/24/15 21:34	1
<b>Manganese</b>	<b>0.31</b>		0.025	0.010	mg/L		11/23/15 17:00	11/24/15 21:34	1
<b>Nickel</b>	<b>0.070</b>		0.025	0.010	mg/L		11/23/15 17:00	11/24/15 21:34	1
Selenium	<0.050		0.050	0.020	mg/L		11/23/15 17:00	11/24/15 21:34	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - Illinois Route 120 - WO 027

TestAmerica Job ID: 500-103903-1

**Client Sample ID: W-1(0-7)-111115**

**Lab Sample ID: 500-103903-8**

**Date Collected: 11/11/15 09:29**

**Matrix: Solid**

**Date Received: 11/12/15 08:00**

**Percent Solids: 87.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		11/23/15 17:00	11/24/15 21:34	1
<b>Zinc</b>	<b>0.24</b>	<b>J</b>	0.50	0.020	mg/L		11/23/15 17:00	11/24/15 21:34	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.39</b>	<b>J</b>	1.0	0.22	mg/Kg	☼	11/17/15 18:42	11/20/15 02:53	1
<b>Arsenic</b>	<b>5.1</b>		0.52	0.24	mg/Kg	☼	11/17/15 18:42	11/20/15 02:53	1
<b>Barium</b>	<b>38</b>		0.52	0.095	mg/Kg	☼	11/17/15 18:42	11/20/15 02:53	1
<b>Beryllium</b>	<b>0.39</b>		0.21	0.045	mg/Kg	☼	11/17/15 18:42	11/20/15 02:53	1
<b>Cadmium</b>	<b>0.22</b>		0.10	0.030	mg/Kg	☼	11/17/15 18:42	11/20/15 02:53	1
<b>Calcium</b>	<b>75000</b>		100	33	mg/Kg	☼	11/17/15 18:42	11/20/15 21:28	10
<b>Chromium</b>	<b>11</b>	<b>B</b>	0.52	0.089	mg/Kg	☼	11/17/15 18:42	11/20/15 02:53	1
<b>Cobalt</b>	<b>5.8</b>		0.26	0.059	mg/Kg	☼	11/17/15 18:42	11/20/15 02:53	1
<b>Copper</b>	<b>16</b>		0.52	0.11	mg/Kg	☼	11/17/15 18:42	11/20/15 02:53	1
<b>Iron</b>	<b>12000</b>		10	4.0	mg/Kg	☼	11/17/15 18:42	11/20/15 02:53	1
<b>Lead</b>	<b>9.5</b>		0.26	0.13	mg/Kg	☼	11/17/15 18:42	11/20/15 02:53	1
<b>Magnesium</b>	<b>27000</b>	<b>B</b>	5.2	2.1	mg/Kg	☼	11/17/15 18:42	11/20/15 02:53	1
<b>Manganese</b>	<b>270</b>		0.52	0.10	mg/Kg	☼	11/17/15 18:42	11/20/15 02:53	1
<b>Nickel</b>	<b>16</b>		0.52	0.14	mg/Kg	☼	11/17/15 18:42	11/20/15 21:23	1
<b>Potassium</b>	<b>1400</b>		26	4.2	mg/Kg	☼	11/17/15 18:42	11/20/15 02:53	1
<b>Selenium</b>	<b>0.64</b>		0.52	0.26	mg/Kg	☼	11/17/15 18:42	11/20/15 02:53	1
Silver	<0.26		0.26	0.061	mg/Kg	☼	11/17/15 18:42	11/20/15 02:53	1
<b>Sodium</b>	<b>170</b>		52	6.8	mg/Kg	☼	11/17/15 18:42	11/20/15 02:53	1
Thallium	<0.52		0.52	0.26	mg/Kg	☼	11/17/15 18:42	11/20/15 02:53	1
<b>Vanadium</b>	<b>16</b>		0.26	0.076	mg/Kg	☼	11/17/15 18:42	11/20/15 02:53	1
<b>Zinc</b>	<b>40</b>	<b>^</b>	1.0	0.33	mg/Kg	☼	11/17/15 18:42	11/20/15 02:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		11/23/15 18:30	11/24/15 15:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		11/23/15 20:30	11/24/15 13:47	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>16</b>	<b>J</b>	18	6.4	ug/Kg	☼	11/16/15 15:00	11/17/15 12:00	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.33</b>		0.200	0.200	SU			11/21/15 11:16	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Illinois Route 120 - WO 027

TestAmerica Job ID: 500-103903-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.

### GC/MS Semi VOA

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

### Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F2	MS/MSD RPD exceeds control limits
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
F3	Duplicate RPD exceeds the control limit
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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 - Illinois Route 120 - WO 027

TestAmerica Job ID: 500-103903-1

## 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	04-30-16

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

Analysis Method	Prep Method	Matrix	Analyte
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. Babubakumar  
 Company: Weston Solutions  
 Address: 300 Plaza Cir, Ste 202  
Mundelein, IL 60060  
 Phone: 224-864-7252  
 Fax: \_\_\_\_\_  
 E-Mail: \_\_\_\_\_

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

## Chain of Custody Record

Lab Job #: 500-103903  
 Chain of Custody Number: \_\_\_\_\_  
 Page 3 of 4  
 Temperature °C of Cooler: (2.9)(3.1)

Client		Client Project #		Preservative		Parameter		Matrix		Preservative Key	
<u>Weston</u>										 500-103903 COC	
Project Name		Lab Project #		Sampling		Matrix		Matrix		Comments	
<u>IDOT 027</u>											
Project Location/State		Lab Project #		Date		Time		# of Containers		Matrix	
<u>Hainesville, IL</u>											
Sampler		Lab PM		Date		Time		# of Containers		Matrix	
<u>A. Turchasz</u>		<u>Jack Wright</u>									
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOC	SVOC	Total Metals	TCUP / SCLP Metals	PH
1		R-1(0-2)-11115	11/11/15	0810	2	S	X	X	X	X	X
2		OB-3(0-3)-11115	11/11/15	0825	2	S	X	X	X	X	X
3		CB-3(0-3)-11115D	11/11/15	0825	2	S	X	X	X	X	X
4		CB-2(0-3)-11115	11/11/15	0836	2	S	X	X	X	X	X
5		CB-1(0-6)-11115	11/11/15	0845	2	S	X	X	X	X	X
6		W-3(0-6)-11115	11/11/15	0902	2	S	X	X	X	X	X
7		W-2(0-5)-11115	11/11/15	0916	2	S	X	X	X	X	X
8		W-1(0-7)-11115	11/11/15	0929	2	S	X	X	X	X	X
9		W-1(7-14)-11115	11/11/15	0933	2	S	X	X	X	X	X
10		MG-1(0-5)-11115	11/11/15	0952	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

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>A. Turchasz</u>	Company <u>Weston</u>	Date <u>11/11/15</u>	Time <u>1540</u>	Received By <u>A. Turchasz</u>	Company <u>Weston</u>	Date <u>11/11/15</u>	Time <u>1540</u>	Lab Courier <input checked="" type="checkbox"/>
Relinquished By <u>A. Turchasz</u>	Company <u>Weston</u>	Date <u>11/11/15</u>	Time <u>1730</u>	Received By <u>A. Turchasz</u>	Company <u>TAL</u>	Date <u>11/12/15</u>	Time <u>0800</u>	Shipped <input type="checkbox"/>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	Hand Delivered <input type="checkbox"/>

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 333 : IL Route 120 Office Phone Number, if available: \_\_\_\_\_

Physical Site Location (address, including number and street):  
60-80 E. Belvidere Road (ISGS Site No. 2464V-20)

City: Hainesville 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: 42.344882271 Longitude: -88.066408868  
(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 333 : IL Route 120

Latitude: 42.344882271 Longitude: -88.066408868

**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 CB-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2464V-20. SEE FIGURE 3-1 AND TABLE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - JOB ID: 500-103903-1  
ALSO SEE FIGURE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

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

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

Company Name: Weston Solutions, Inc.

Street Address: 300 Circle Plaza; Suite 202

City: Mundelein State: IL Zip Code: 60060

Phone: (224) 864-7200

William F. Karlovitz, P.E.

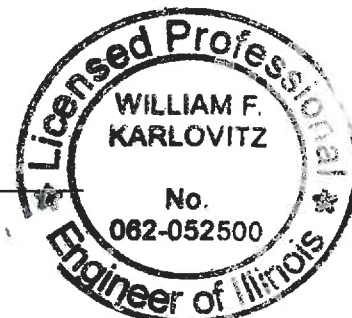
Printed Name:

*William F. Karlovitz*

*7 March 2016*

Date:

Licensed Professional Engineer or  
Licensed Professional Geologist Signature:



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

**Summary Table of ISGS Site No. 2464V-20**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAP 333: IL Route 120 at Hainesville Road**  
**Hainesville, Lake County, Illinois**

Field Sample ID	CB-1(0-6)-111115	<b>Soil Reference Concentrations<sup>A</sup></b>
Sample Date	11/11/2015	
Location ID	CB-1	
Depth	0 - 6	
Location Code	2464V-20	
<b>Parameter</b>		
Laboratory pH	8.28	<6.25, >9.0
<b>VOCs (ug/kg)</b>	No Exceedances	
<b>SVOCs (ug/kg)</b>	No Exceedances	
<b>Total Metals (mg/kg)</b>		
Antimony, Total	0.59 J	5
Arsenic, Total	6.7 J-	11.3 / 13.0
Barium, Total	38 J	1500
Beryllium, Total	0.41 J	22
Cadmium, Total	0.24 J	5.2
Calcium, Total	84000 J	---
Chromium, Total	12 B	21
Cobalt, Total	8.2 J	20
Copper, Total	18 J	2900
Iron, Total	15000 J	15000 / 15900
Lead, Total	12 J	107
Magnesium, Total	30000 J	325000
Manganese, Total	390 J	630 / 636
Mercury, Total	0.017 J	0.89
Nickel, Total	20 J	100
Potassium, Total	1200 J	---
Selenium, Total	0.31 J	1.3
Silver, Total	ND	4.4
Sodium, Total	990	---
Vanadium, Total	17	550
Zinc, Total	42 J	5100
<b>TCLP Metals (mg/l)</b>		
Barium, TCLP	0.55	2
Cadmium, TCLP	0.0034 J	0.005
Cobalt, TCLP	0.012 J	1
Copper, TCLP	ND	0.65
Iron, TCLP	0.22	5
Lead, TCLP	ND	0.0075
Manganese, TCLP	5.6	0.15
Mercury, TCLP	ND	0.002
Nickel, TCLP	0.021 J	0.1
Zinc, TCLP	ND	5
<b>SPLP Metals (mg/l)</b>		
Arsenic, SPLP	0.032 J	0.05
Barium, SPLP	0.35 J	2
Beryllium, SPLP	ND	0.004
Cadmium, SPLP	ND	0.005
Chromium, SPLP	0.084	0.1
Cobalt, SPLP	0.034	1
Copper, SPLP	0.12	0.65
Iron, SPLP	87 J+	5
Lead, SPLP	0.06	0.0075
Manganese, SPLP	0.7	0.15
Mercury, SPLP	ND	0.002
Nickel, SPLP	0.1	0.1
Zinc, SPLP	0.26 J	5

**Summary Table of ISGS Site No. 2464V-20**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAP 333: IL Route 120 at Hainesville Road**  
**Hainesville, Lake County, Illinois**

**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.


B - Constituent detected in the blank and investigative sample.

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

J- - Estimated concentration, biased low.

J+ - Estimated concentration, biased high.

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

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

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

TestAmerica Job ID: 500-103903-1

Client Project/Site: IDOT - Illinois Route 120 - WO 027

For:

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

Attn: Mr. S. Babusukumar



Authorized for release by:  
11/25/2015 4:09:58 PM

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

### LINKS

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results through  
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Have a Question?



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[www.testamericainc.com](http://www.testamericainc.com)

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

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

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# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - Illinois Route 120 - WO 027

TestAmerica Job ID: 500-103903-1

**Client Sample ID: CB-1(0-6)-111115**

**Lab Sample ID: 500-103903-5**

**Date Collected: 11/11/15 08:45**

**Matrix: Solid**

**Date Received: 11/12/15 08:00**

**Percent Solids: 86.6**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>61</b>		23	4.5	ug/Kg	☼		11/13/15 11:09	1
Benzene	<5.8		5.8	1.3	ug/Kg	☼		11/13/15 11:09	1
Bromodichloromethane	<5.8		5.8	0.97	ug/Kg	☼		11/13/15 11:09	1
Bromoform	<5.8		5.8	1.2	ug/Kg	☼		11/13/15 11:09	1
Bromomethane	<5.8 *		5.8	2.1	ug/Kg	☼		11/13/15 11:09	1
Carbon disulfide	<5.8		5.8	2.1	ug/Kg	☼		11/13/15 11:09	1
Carbon tetrachloride	<5.8		5.8	1.2	ug/Kg	☼		11/13/15 11:09	1
Chlorobenzene	<5.8		5.8	1.4	ug/Kg	☼		11/13/15 11:09	1
Chloroethane	<5.8		5.8	2.4	ug/Kg	☼		11/13/15 11:09	1
Chloroform	<5.8		5.8	1.1	ug/Kg	☼		11/13/15 11:09	1
Chloromethane	<5.8		5.8	1.4	ug/Kg	☼		11/13/15 11:09	1
cis-1,2-Dichloroethene	<5.8		5.8	1.2	ug/Kg	☼		11/13/15 11:09	1
cis-1,3-Dichloropropene	<5.8		5.8	1.3	ug/Kg	☼		11/13/15 11:09	1
Dibromochloromethane	<5.8		5.8	0.66	ug/Kg	☼		11/13/15 11:09	1
1,1-Dichloroethane	<5.8		5.8	1.2	ug/Kg	☼		11/13/15 11:09	1
1,2-Dichloroethane	<5.8		5.8	0.86	ug/Kg	☼		11/13/15 11:09	1
1,1-Dichloroethene	<5.8		5.8	2.1	ug/Kg	☼		11/13/15 11:09	1
1,2-Dichloropropane	<5.8		5.8	1.5	ug/Kg	☼		11/13/15 11:09	1
1,3-Dichloropropene, Total	<5.8		5.8	1.6	ug/Kg	☼		11/13/15 11:09	1
Ethylbenzene	<5.8		5.8	1.4	ug/Kg	☼		11/13/15 11:09	1
2-Hexanone	<5.8		5.8	1.8	ug/Kg	☼		11/13/15 11:09	1
Methylene Chloride	<5.8		5.8	4.4	ug/Kg	☼		11/13/15 11:09	1
<b>Methyl Ethyl Ketone</b>	<b>12</b>		5.8	2.1	ug/Kg	☼		11/13/15 11:09	1
methyl isobutyl ketone	<5.8		5.8	1.2	ug/Kg	☼		11/13/15 11:09	1
Methyl tert-butyl ether	<5.8		5.8	1.4	ug/Kg	☼		11/13/15 11:09	1
Styrene	<5.8		5.8	1.4	ug/Kg	☼		11/13/15 11:09	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	0.92	ug/Kg	☼		11/13/15 11:09	1
Tetrachloroethene	<5.8		5.8	1.2	ug/Kg	☼		11/13/15 11:09	1
Toluene	<5.8		5.8	2.0	ug/Kg	☼		11/13/15 11:09	1
trans-1,2-Dichloroethene	<5.8		5.8	1.4	ug/Kg	☼		11/13/15 11:09	1
trans-1,3-Dichloropropene	<5.8		5.8	1.6	ug/Kg	☼		11/13/15 11:09	1
1,1,1-Trichloroethane	<5.8		5.8	1.3	ug/Kg	☼		11/13/15 11:09	1
1,1,2-Trichloroethane	<5.8		5.8	1.1	ug/Kg	☼		11/13/15 11:09	1
Trichloroethene	<5.8		5.8	1.6	ug/Kg	☼		11/13/15 11:09	1
Vinyl chloride	<5.8		5.8	1.4	ug/Kg	☼		11/13/15 11:09	1
Xylenes, Total	<12		12	2.1	ug/Kg	☼		11/13/15 11:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 122		11/13/15 11:09	1
Dibromofluoromethane	101		75 - 120		11/13/15 11:09	1
1,2-Dichloroethane-d4 (Surr)	119		70 - 134		11/13/15 11:09	1
Toluene-d8 (Surr)	116		75 - 122		11/13/15 11:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<180		180	40	ug/Kg	☼	11/13/15 07:26	11/19/15 14:12	1
1,2-Dichlorobenzene	<180		180	44	ug/Kg	☼	11/13/15 07:26	11/19/15 14:12	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	11/13/15 07:26	11/19/15 14:12	1
1,4-Dichlorobenzene	<180		180	47	ug/Kg	☼	11/13/15 07:26	11/19/15 14:12	1
2,2'-oxybis[1-chloropropane]	<180		180	43	ug/Kg	☼	11/13/15 07:26	11/19/15 14:12	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - Illinois Route 120 - WO 027

TestAmerica Job ID: 500-103903-1

**Client Sample ID: CB-1(0-6)-111115**

**Lab Sample ID: 500-103903-5**

**Date Collected: 11/11/15 08:45**

**Matrix: Solid**

**Date Received: 11/12/15 08:00**

**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	84	ug/Kg	☼	11/13/15 07:26	11/19/15 14:12	1
2,4,6-Trichlorophenol	<360		360	130	ug/Kg	☼	11/13/15 07:26	11/19/15 14:12	1
2,4-Dichlorophenol	<360		360	87	ug/Kg	☼	11/13/15 07:26	11/19/15 14:12	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	11/13/15 07:26	11/19/15 14:12	1
2,4-Dinitrophenol	<740		740	650	ug/Kg	☼	11/13/15 07:26	11/19/15 14:12	1
2,4-Dinitrotoluene	<180		180	58	ug/Kg	☼	11/13/15 07:26	11/19/15 14:12	1
2,6-Dinitrotoluene	<180		180	72	ug/Kg	☼	11/13/15 07:26	11/19/15 14:12	1
2-Chloronaphthalene	<180		180	41	ug/Kg	☼	11/13/15 07:26	11/19/15 14:12	1
2-Chlorophenol	<180		180	63	ug/Kg	☼	11/13/15 07:26	11/19/15 14:12	1
2-Methylnaphthalene	<36		36	6.8	ug/Kg	☼	11/13/15 07:26	11/19/15 14:12	1
2-Methylphenol	<180		180	59	ug/Kg	☼	11/13/15 07:26	11/19/15 14:12	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	11/13/15 07:26	11/19/15 14:12	1
2-Nitrophenol	<360		360	87	ug/Kg	☼	11/13/15 07:26	11/19/15 14:12	1
3 & 4 Methylphenol	<180		180	61	ug/Kg	☼	11/13/15 07:26	11/19/15 14:12	1
3,3'-Dichlorobenzidine	<180		180	51	ug/Kg	☼	11/13/15 07:26	11/19/15 14:12	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	11/13/15 07:26	11/19/15 14:12	1
4,6-Dinitro-2-methylphenol	<740		740	300	ug/Kg	☼	11/13/15 07:26	11/19/15 14:12	1
4-Bromophenyl phenyl ether	<180		180	48	ug/Kg	☼	11/13/15 07:26	11/19/15 14:12	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	11/13/15 07:26	11/19/15 14:12	1
4-Chloroaniline	<740		740	170	ug/Kg	☼	11/13/15 07:26	11/19/15 14:12	1
4-Chlorophenyl phenyl ether	<180		180	43	ug/Kg	☼	11/13/15 07:26	11/19/15 14:12	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	11/13/15 07:26	11/19/15 14:12	1
4-Nitrophenol	<740		740	350	ug/Kg	☼	11/13/15 07:26	11/19/15 14:12	1
Acenaphthene	<36		36	6.6	ug/Kg	☼	11/13/15 07:26	11/19/15 14:12	1
Acenaphthylene	<36		36	4.8	ug/Kg	☼	11/13/15 07:26	11/19/15 14:12	1
Anthracene	<36		36	6.1	ug/Kg	☼	11/13/15 07:26	11/19/15 14:12	1
<b>Benzo[a]anthracene</b>	<b>24</b>	<b>J</b>	36	4.9	ug/Kg	☼	11/13/15 07:26	11/19/15 14:12	1
<b>Benzo[a]pyrene</b>	<b>30</b>	<b>J</b>	36	7.1	ug/Kg	☼	11/13/15 07:26	11/19/15 14:12	1
<b>Benzo[b]fluoranthene</b>	<b>45</b>		36	7.9	ug/Kg	☼	11/13/15 07:26	11/19/15 14:12	1
<b>Benzo[g,h,i]perylene</b>	<b>27</b>	<b>J</b>	36	12	ug/Kg	☼	11/13/15 07:26	11/19/15 14:12	1
<b>Benzo[k]fluoranthene</b>	<b>17</b>	<b>J</b>	36	11	ug/Kg	☼	11/13/15 07:26	11/19/15 14:12	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	11/13/15 07:26	11/19/15 14:12	1
Bis(2-chloroethyl)ether	<180		180	55	ug/Kg	☼	11/13/15 07:26	11/19/15 14:12	1
Bis(2-ethylhexyl) phthalate	<180		180	67	ug/Kg	☼	11/13/15 07:26	11/19/15 14:12	1
Butyl benzyl phthalate	<180		180	70	ug/Kg	☼	11/13/15 07:26	11/19/15 14:12	1
Carbazole	<180		180	92	ug/Kg	☼	11/13/15 07:26	11/19/15 14:12	1
<b>Chrysene</b>	<b>35</b>	<b>J</b>	36	10	ug/Kg	☼	11/13/15 07:26	11/19/15 14:12	1
Dibenz(a,h)anthracene	<36		36	7.1	ug/Kg	☼	11/13/15 07:26	11/19/15 14:12	1
Dibenzofuran	<180		180	43	ug/Kg	☼	11/13/15 07:26	11/19/15 14:12	1
Diethyl phthalate	<180		180	62	ug/Kg	☼	11/13/15 07:26	11/19/15 14:12	1
Dimethyl phthalate	<180		180	48	ug/Kg	☼	11/13/15 07:26	11/19/15 14:12	1
Di-n-butyl phthalate	<180		180	56	ug/Kg	☼	11/13/15 07:26	11/19/15 14:12	1
Di-n-octyl phthalate	<180		180	60	ug/Kg	☼	11/13/15 07:26	11/19/15 14:12	1
<b>Fluoranthene</b>	<b>46</b>		36	6.8	ug/Kg	☼	11/13/15 07:26	11/19/15 14:12	1
Fluorene	<36		36	5.2	ug/Kg	☼	11/13/15 07:26	11/19/15 14:12	1
Hexachlorobenzene	<74		74	8.5	ug/Kg	☼	11/13/15 07:26	11/19/15 14:12	1
Hexachlorobutadiene	<180		180	58	ug/Kg	☼	11/13/15 07:26	11/19/15 14:12	1
Hexachlorocyclopentadiene	<740		740	210	ug/Kg	☼	11/13/15 07:26	11/19/15 14:12	1
Hexachloroethane	<180		180	56	ug/Kg	☼	11/13/15 07:26	11/19/15 14:12	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - Illinois Route 120 - WO 027

TestAmerica Job ID: 500-103903-1

**Client Sample ID: CB-1(0-6)-111115**

**Lab Sample ID: 500-103903-5**

**Date Collected: 11/11/15 08:45**

**Matrix: Solid**

**Date Received: 11/12/15 08:00**

**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>28</b>	<b>J</b>	36	9.5	ug/Kg	☼	11/13/15 07:26	11/19/15 14:12	1
Isophorone	<180		180	41	ug/Kg	☼	11/13/15 07:26	11/19/15 14:12	1
Naphthalene	<36		36	5.6	ug/Kg	☼	11/13/15 07:26	11/19/15 14:12	1
Nitrobenzene	<36		36	9.2	ug/Kg	☼	11/13/15 07:26	11/19/15 14:12	1
N-Nitrosodi-n-propylamine	<180		180	45	ug/Kg	☼	11/13/15 07:26	11/19/15 14:12	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	11/13/15 07:26	11/19/15 14:12	1
Pentachlorophenol	<740		740	590	ug/Kg	☼	11/13/15 07:26	11/19/15 14:12	1
<b>Phenanthrene</b>	<b>15</b>	<b>J</b>	36	5.1	ug/Kg	☼	11/13/15 07:26	11/19/15 14:12	1
Phenol	<180		180	82	ug/Kg	☼	11/13/15 07:26	11/19/15 14:12	1
<b>Pyrene</b>	<b>42</b>		36	7.3	ug/Kg	☼	11/13/15 07:26	11/19/15 14:12	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>	102		35 - 137				11/13/15 07:26	11/19/15 14:12	1
<i>2-Fluorobiphenyl</i>	95		25 - 119				11/13/15 07:26	11/19/15 14:12	1
<i>2-Fluorophenol</i>	88		25 - 110				11/13/15 07:26	11/19/15 14:12	1
<i>Nitrobenzene-d5</i>	95		25 - 115				11/13/15 07:26	11/19/15 14:12	1
<i>Phenol-d5</i>	75		31 - 110				11/13/15 07:26	11/19/15 14:12	1
<i>Terphenyl-d14</i>	113		36 - 134				11/13/15 07:26	11/19/15 14:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		11/22/15 23:18	11/23/15 22:00	1
<b>Barium</b>	<b>0.55</b>		0.50	0.050	mg/L		11/22/15 23:18	11/23/15 22:00	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/22/15 23:18	11/23/15 22:00	1
<b>Cadmium</b>	<b>0.0034</b>	<b>J</b>	0.0050	0.0020	mg/L		11/22/15 23:18	11/23/15 22:00	1
Chromium	<0.025		0.025	0.010	mg/L		11/22/15 23:18	11/23/15 22:00	1
<b>Cobalt</b>	<b>0.012</b>	<b>J</b>	0.025	0.010	mg/L		11/22/15 23:18	11/23/15 22:00	1
Copper	<0.025		0.025	0.010	mg/L		11/22/15 23:18	11/23/15 22:00	1
<b>Iron</b>	<b>0.22</b>		0.20	0.20	mg/L		11/22/15 23:18	11/23/15 22:00	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/22/15 23:18	11/23/15 22:00	1
<b>Manganese</b>	<b>5.6</b>		0.025	0.010	mg/L		11/22/15 23:18	11/23/15 22:00	1
<b>Nickel</b>	<b>0.021</b>	<b>J</b>	0.025	0.010	mg/L		11/22/15 23:18	11/23/15 22:00	1
Selenium	<0.050		0.050	0.020	mg/L		11/22/15 23:18	11/23/15 22:00	1
Silver	<0.025		0.025	0.010	mg/L		11/22/15 23:18	11/23/15 22:00	1
Zinc	<0.50		0.50	0.020	mg/L		11/22/15 23:18	11/23/15 22:00	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		11/23/15 17:00	11/24/15 21:21	1
<b>Barium</b>	<b>0.35</b>	<b>J</b>	0.50	0.050	mg/L		11/23/15 17:00	11/24/15 21:21	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/23/15 17:00	11/24/15 21:21	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/23/15 17:00	11/24/15 21:21	1
<b>Chromium</b>	<b>0.084</b>		0.025	0.010	mg/L		11/23/15 17:00	11/24/15 21:21	1
<b>Cobalt</b>	<b>0.034</b>		0.025	0.010	mg/L		11/23/15 17:00	11/24/15 21:21	1
<b>Copper</b>	<b>0.12</b>		0.025	0.010	mg/L		11/23/15 17:00	11/24/15 21:21	1
<b>Iron</b>	<b>87</b>		0.20	0.20	mg/L		11/23/15 17:00	11/24/15 21:21	1
<b>Lead</b>	<b>0.060</b>		0.0075	0.0075	mg/L		11/23/15 17:00	11/24/15 21:21	1
<b>Manganese</b>	<b>0.70</b>		0.025	0.010	mg/L		11/23/15 17:00	11/24/15 21:21	1
<b>Nickel</b>	<b>0.10</b>		0.025	0.010	mg/L		11/23/15 17:00	11/24/15 21:21	1
Selenium	<0.050		0.050	0.020	mg/L		11/23/15 17:00	11/24/15 21:21	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - Illinois Route 120 - WO 027

TestAmerica Job ID: 500-103903-1

**Client Sample ID: CB-1(0-6)-111115**

**Lab Sample ID: 500-103903-5**

**Date Collected: 11/11/15 08:45**

**Matrix: Solid**

**Date Received: 11/12/15 08:00**

**Percent Solids: 86.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		11/23/15 17:00	11/24/15 21:21	1
<b>Zinc</b>	<b>0.26</b>	<b>J</b>	0.50	0.020	mg/L		11/23/15 17:00	11/24/15 21:21	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.59</b>	<b>J</b>	1.1	0.23	mg/Kg	☼	11/17/15 18:42	11/20/15 02:38	1
<b>Arsenic</b>	<b>6.7</b>		0.56	0.26	mg/Kg	☼	11/17/15 18:42	11/20/15 02:38	1
<b>Barium</b>	<b>38</b>		0.56	0.10	mg/Kg	☼	11/17/15 18:42	11/20/15 02:38	1
<b>Beryllium</b>	<b>0.41</b>		0.22	0.048	mg/Kg	☼	11/17/15 18:42	11/20/15 02:38	1
<b>Cadmium</b>	<b>0.24</b>		0.11	0.032	mg/Kg	☼	11/17/15 18:42	11/20/15 02:38	1
<b>Calcium</b>	<b>84000</b>		110	36	mg/Kg	☼	11/17/15 18:42	11/20/15 21:15	10
<b>Chromium</b>	<b>12</b>	<b>B</b>	0.56	0.096	mg/Kg	☼	11/17/15 18:42	11/20/15 02:38	1
<b>Cobalt</b>	<b>8.2</b>		0.28	0.063	mg/Kg	☼	11/17/15 18:42	11/20/15 02:38	1
<b>Copper</b>	<b>18</b>		0.56	0.12	mg/Kg	☼	11/17/15 18:42	11/20/15 02:38	1
<b>Iron</b>	<b>15000</b>		11	4.3	mg/Kg	☼	11/17/15 18:42	11/20/15 02:38	1
<b>Lead</b>	<b>12</b>		0.28	0.14	mg/Kg	☼	11/17/15 18:42	11/20/15 02:38	1
<b>Magnesium</b>	<b>30000</b>	<b>B</b>	5.6	2.3	mg/Kg	☼	11/17/15 18:42	11/20/15 02:38	1
<b>Manganese</b>	<b>390</b>		0.56	0.11	mg/Kg	☼	11/17/15 18:42	11/20/15 02:38	1
<b>Nickel</b>	<b>20</b>	<b>^</b>	0.56	0.15	mg/Kg	☼	11/17/15 18:42	11/20/15 02:38	1
<b>Potassium</b>	<b>1200</b>		28	4.6	mg/Kg	☼	11/17/15 18:42	11/20/15 02:38	1
<b>Selenium</b>	<b>0.31</b>	<b>J</b>	0.56	0.28	mg/Kg	☼	11/17/15 18:42	11/20/15 02:38	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	11/17/15 18:42	11/20/15 02:38	1
<b>Sodium</b>	<b>990</b>		56	7.4	mg/Kg	☼	11/17/15 18:42	11/20/15 02:38	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	11/17/15 18:42	11/20/15 02:38	1
<b>Vanadium</b>	<b>17</b>		0.28	0.082	mg/Kg	☼	11/17/15 18:42	11/20/15 02:38	1
<b>Zinc</b>	<b>42</b>	<b>^</b>	1.1	0.35	mg/Kg	☼	11/17/15 18:42	11/20/15 02:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		11/23/15 18:30	11/24/15 15:18	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		11/23/15 20:30	11/24/15 13:41	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>17</b>	<b>J</b>	18	6.4	ug/Kg	☼	11/16/15 15:00	11/17/15 11:50	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.28</b>		0.200	0.200	SU			11/21/15 11:10	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Illinois Route 120 - WO 027

TestAmerica Job ID: 500-103903-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.

### GC/MS Semi VOA

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

### Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F2	MS/MSD RPD exceeds control limits
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
F3	Duplicate RPD exceeds the control limit
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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 - Illinois Route 120 - WO 027

TestAmerica Job ID: 500-103903-1

## 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	04-30-16

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

Analysis Method	Prep Method	Matrix	Analyte
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. Babubakumar  
 Company: Weston Solutions  
 Address: 300 Plaza Cir, Ste 202  
Mundelein, IL 60060  
 Phone: 224-864-7252  
 Fax: \_\_\_\_\_  
 E-Mail: \_\_\_\_\_

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

## Chain of Custody Record

Lab Job #: 500-103903  
 Chain of Custody Number: \_\_\_\_\_  
 Page 3 of 4  
 Temperature °C of Cooler: (2.9)(3.1)

Client		Client Project #		Preservative		Parameter		Matrix		Comments	
<u>Weston</u>											
Project Name		Lab Project #		# of Containers		Matrix		Matrix		Comments	
<u>IDOT 027</u>											
Project Location/State		Lab PM		Date		Time		Matrix		Comments	
<u>Hainesville, IL</u>		<u>Jack Wright</u>									
Sampler		Sample ID		Date		Time		Matrix		Comments	
<u>A. Turchasz</u>											
1		R-1(0-2)-11115	11/11/15	0810	2	S	X	X	X	X	
2		OB-3(0-3)-11115	11/11/15	0825	2	S	X	X	X	X	
3		CB-3(0-3)-11115D	11/11/15	0825	2	S	X	X	X	X	
4		CB-2(0-3)-11115	11/11/15	0836	2	S	X	X	X	X	
5		CB-1(0-6)-11115	11/11/15	0845	2	S	X	X	X	X	
6		W-3(0-6)-11115	11/11/15	0902	2	S	X	X	X	X	
7		W-2(0-5)-11115	11/11/15	0916	2	S	X	X	X	X	
8		W-1(0-7)-11115	11/11/15	0929	2	S	X	X	X	X	
9		W-1(7-14)-11115	11/11/15	0933	2	S	X	X	X	X	
10		MG-1(0-5)-11115	11/11/15	0952	2	S	X	X	X	X	



Turnaround Time Required (Business Days)  
 \_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days \_\_\_ 10 Days \_\_\_ 15 Days \_\_\_ Other

Requested Due Date \_\_\_\_\_

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

Relinquished By <u>A. Turchasz</u>	Company <u>Weston</u>	Date <u>11/11/15</u>	Time <u>1540</u>	Received By <u>A. Turchasz</u>	Company <u>Weston</u>	Date <u>11/11/15</u>	Time <u>1540</u>	Lab Courier <input checked="" type="checkbox"/>
Relinquished By <u>A. Turchasz</u>	Company <u>Weston</u>	Date <u>11/11/15</u>	Time <u>1730</u>	Received By <u>A. Turchasz</u>	Company <u>TAL</u>	Date <u>11/12/15</u>	Time <u>0800</u>	Shipped <input type="checkbox"/>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	Hand Delivered <input type="checkbox"/>

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 333 : IL Route 120 Office Phone Number, if available: \_\_\_\_\_

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

39 E. Belvidere Road (ISGS Site No. 2464V-27 and 2464V-28)

City: Hainesville 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: 42.344729385 Longitude: -88.066297305  
(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 333 : IL Route 120

Latitude: 42.344729385 Longitude: -88.066297305

**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 RP-1 AND RP-4 WERE SAMPLED ADJACENT TO ISGS SITE Nos. 2464V-27 and 2464V-28. SEE FIGURE 3-1 AND TABLE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - JOB ID: 500-103904-1  
ALSO SEE FIGURE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

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

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

Company Name: Weston Solutions, Inc.  
 Street Address: 300 Circle Plaza; Suite 202  
 City: Mundelein State: IL Zip Code: 60060  
 Phone: (224) 864-7200

William F. Karlovitz, P.E.  
 Printed Name:

*William F. Karlovitz*  
 Licensed Professional Engineer or  
 Licensed Professional Geologist Signature:

7 March 2016  
 Date:





**Summary Table of ISGS Site No. 2464V-27**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAP 333: IL Route 120 at Hainesville Road**  
**Hainesville, Lake County, Illinois**

Field Sample ID	RP-1(0-7)-111115	RP-1(7-14)-111115	RP-4(0-2)-111115	Soil Reference Concentrations <sup>A</sup>
Sample Date	11/11/2015	11/11/2015	11/11/2015	
Location ID	RP-1	RP-1	RP-4	
Depth	0 - 7	7 - 14	0 - 2	
Location Code	2464V-27	2464V-27	2464V-27	
<b>Parameter</b>				
Laboratory pH	8.2	7.83	8.46	<6.25, >9.0
<b>VOCs (ug/kg)</b>	No Exceedances			
<b>SVOCs (ug/kg)</b>				
Benzo(a)pyrene	ND	ND	100	90 / 1300 / 2100
<b>Total Metals (mg/kg)</b>				
Antimony, Total	0.4 J	ND	0.26 J	5
Arsenic, Total	7	4.2	4.6	11.3 / 13.0
Barium, Total	57	27	58	1500
Beryllium, Total	0.6	0.54	0.52	22
Cadmium, Total	ND	ND	ND	5.2
Calcium, Total	100000 B	100000 B	26000 B	---
Chromium, Total	17 B	16 B	19 B	21
Cobalt, Total	15	9.2	8.4	20
Copper, Total	25	24	23	2900
Iron, Total	18000	16000	14000	15000 / 15900
Lead, Total	13	12	130	107
Magnesium, Total	35000	36000	18000	325000
Manganese, Total	490	380	310	630 / 636
Mercury, Total	0.023 J-	0.021 J-	0.063 J-	0.89
Nickel, Total	37	28	19	100
Potassium, Total	2100	2200	1200	---
Selenium, Total	0.29 J	0.29 J	0.42 J	1.3
Silver, Total	ND	ND	ND	4.4
Sodium, Total	1300 B	300 B	1600 B	---
Vanadium, Total	19	18	20	550
Zinc, Total	61 B	60 B	120 B	5100
<b>TCLP Metals (mg/l)</b>				
Barium, TCLP	0.39 J	0.56	0.39 J	2
Cadmium, TCLP	0.0022 J	0.002 J	0.0024 J	0.005
Cobalt, TCLP	ND	ND	ND	1
Copper, TCLP	ND	0.011 J	ND	0.65
Iron, TCLP	0.37	ND	0.21	5
Lead, TCLP	ND	ND	ND	0.0075
Manganese, TCLP	0.091	1.4	0.14	0.15
Mercury, TCLP	ND	ND	ND	0.002
Nickel, TCLP	ND	0.015 J	ND	0.1
Zinc, TCLP	ND	0.28 B	ND	5
<b>SPLP Metals (mg/l)</b>				
Arsenic, SPLP	0.066	ND	0.063	0.05
Barium, SPLP	0.64 B	ND	0.77 B	2
Beryllium, SPLP	0.0065	ND	0.0069	0.004
Cadmium, SPLP	ND	ND	0.0023 J	0.005
Chromium, SPLP	0.16 J-	0.02 J	0.2 J-	0.1
Cobalt, SPLP	0.043	ND	0.049	1
Copper, SPLP	0.2	0.021 J	0.18	0.65
Iron, SPLP	160 J-	16 J-	190 J-	5
Lead, SPLP	0.07 J-	0.0075 R	0.36 J-	0.0075
Manganese, SPLP	0.7 J-	0.1 J-	1.4 J-	0.15
Mercury, SPLP	ND	ND	0.0002	0.002
Nickel, SPLP	0.18	0.02 J	0.18	0.1
Zinc, SPLP	0.55 J-	ND	0.83 J-	5

**Summary Table of ISGS Site No. 2464V-27**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAP 333: IL Route 120 at Hainesville Road**  
**Hainesville, Lake County, Illinois**

**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.


B - Constituent detected in the blank and investigative sample.

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

J- - Estimated concentration, biased low.

R - Result rejected as part of data validation.

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

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago

2417 Bond Street

University Park, IL 60484

Tel: (708)534-5200

TestAmerica Job ID: 500-103904-1

Client Project/Site: IDOT - Illinois Route 120 - WO 027

For:

Weston Solutions, Inc.

300 Plaza Circle, Suite 202

Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar

*Jodie Bracken*

Authorized for release by:

11/24/2015 5:54:44 PM

Jodie Bracken, Project Management Assistant II

[jodie.bracken@testamericainc.com](mailto:jodie.bracken@testamericainc.com)

Designee for

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 - Illinois Route 120 - WO 027

TestAmerica Job ID: 500-103904-1

**Client Sample ID: RP-1(0-7)-111115**

**Lab Sample ID: 500-103904-8**

**Date Collected: 11/11/15 13:23**

**Matrix: Solid**

**Date Received: 11/12/15 08:00**

**Percent Solids: 80.9**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<25		25	4.8	ug/Kg	☼		11/13/15 13:46	1
Benzene	<6.2		6.2	1.4	ug/Kg	☼		11/13/15 13:46	1
Bromodichloromethane	<6.2		6.2	1.0	ug/Kg	☼		11/13/15 13:46	1
Bromoform	<6.2		6.2	1.3	ug/Kg	☼		11/13/15 13:46	1
Bromomethane	<6.2		6.2	2.3	ug/Kg	☼		11/13/15 13:46	1
Carbon disulfide	<6.2		6.2	2.3	ug/Kg	☼		11/13/15 13:46	1
Carbon tetrachloride	<6.2		6.2	1.3	ug/Kg	☼		11/13/15 13:46	1
Chlorobenzene	<6.2		6.2	1.5	ug/Kg	☼		11/13/15 13:46	1
Chloroethane	<6.2 *		6.2	2.6	ug/Kg	☼		11/13/15 13:46	1
Chloroform	<6.2		6.2	1.2	ug/Kg	☼		11/13/15 13:46	1
Chloromethane	<6.2		6.2	1.5	ug/Kg	☼		11/13/15 13:46	1
cis-1,2-Dichloroethene	<6.2		6.2	1.3	ug/Kg	☼		11/13/15 13:46	1
cis-1,3-Dichloropropene	<6.2		6.2	1.4	ug/Kg	☼		11/13/15 13:46	1
Dibromochloromethane	<6.2		6.2	0.71	ug/Kg	☼		11/13/15 13:46	1
1,1-Dichloroethane	<6.2		6.2	1.3	ug/Kg	☼		11/13/15 13:46	1
1,2-Dichloroethane	<6.2		6.2	0.92	ug/Kg	☼		11/13/15 13:46	1
1,1-Dichloroethene	<6.2		6.2	2.3	ug/Kg	☼		11/13/15 13:46	1
1,2-Dichloropropane	<6.2		6.2	1.6	ug/Kg	☼		11/13/15 13:46	1
1,3-Dichloropropene, Total	<6.2		6.2	1.7	ug/Kg	☼		11/13/15 13:46	1
Ethylbenzene	<6.2		6.2	1.5	ug/Kg	☼		11/13/15 13:46	1
2-Hexanone	<6.2		6.2	1.9	ug/Kg	☼		11/13/15 13:46	1
Methylene Chloride	<6.2		6.2	4.7	ug/Kg	☼		11/13/15 13:46	1
Methyl Ethyl Ketone	<6.2		6.2	2.2	ug/Kg	☼		11/13/15 13:46	1
methyl isobutyl ketone	<6.2		6.2	1.3	ug/Kg	☼		11/13/15 13:46	1
Methyl tert-butyl ether	<6.2		6.2	1.5	ug/Kg	☼		11/13/15 13:46	1
Styrene	<6.2		6.2	1.4	ug/Kg	☼		11/13/15 13:46	1
1,1,2,2-Tetrachloroethane	<6.2		6.2	0.98	ug/Kg	☼		11/13/15 13:46	1
Tetrachloroethene	<6.2		6.2	1.3	ug/Kg	☼		11/13/15 13:46	1
Toluene	<6.2		6.2	2.2	ug/Kg	☼		11/13/15 13:46	1
trans-1,2-Dichloroethene	<6.2		6.2	1.5	ug/Kg	☼		11/13/15 13:46	1
trans-1,3-Dichloropropene	<6.2		6.2	1.7	ug/Kg	☼		11/13/15 13:46	1
1,1,1-Trichloroethane	<6.2		6.2	1.4	ug/Kg	☼		11/13/15 13:46	1
1,1,2-Trichloroethane	<6.2		6.2	1.2	ug/Kg	☼		11/13/15 13:46	1
Trichloroethene	<6.2		6.2	1.7	ug/Kg	☼		11/13/15 13:46	1
Vinyl chloride	<6.2		6.2	1.5	ug/Kg	☼		11/13/15 13:46	1
Xylenes, Total	<12		12	2.3	ug/Kg	☼		11/13/15 13:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122		11/13/15 13:46	1
Dibromofluoromethane	102		75 - 120		11/13/15 13:46	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 134		11/13/15 13:46	1
Toluene-d8 (Surr)	100		75 - 122		11/13/15 13:46	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	☼	11/16/15 16:01	11/17/15 12:38	1
1,2-Dichlorobenzene	<210		210	49	ug/Kg	☼	11/16/15 16:01	11/17/15 12:38	1
1,3-Dichlorobenzene	<210		210	46	ug/Kg	☼	11/16/15 16:01	11/17/15 12:38	1
1,4-Dichlorobenzene	<210		210	53	ug/Kg	☼	11/16/15 16:01	11/17/15 12:38	1
2,2'-oxybis[1-chloropropane]	<210		210	48	ug/Kg	☼	11/16/15 16:01	11/17/15 12:38	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - Illinois Route 120 - WO 027

TestAmerica Job ID: 500-103904-1

**Client Sample ID: RP-1(0-7)-111115**

**Lab Sample ID: 500-103904-8**

**Date Collected: 11/11/15 13:23**

**Matrix: Solid**

**Date Received: 11/12/15 08:00**

**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	<410		410	94	ug/Kg	☼	11/16/15 16:01	11/17/15 12:38	1
2,4,6-Trichlorophenol	<410		410	140	ug/Kg	☼	11/16/15 16:01	11/17/15 12:38	1
2,4-Dichlorophenol	<410		410	97	ug/Kg	☼	11/16/15 16:01	11/17/15 12:38	1
2,4-Dimethylphenol	<410		410	160	ug/Kg	☼	11/16/15 16:01	11/17/15 12:38	1
2,4-Dinitrophenol	<830		830	720	ug/Kg	☼	11/16/15 16:01	11/17/15 12:38	1
2,4-Dinitrotoluene	<210		210	65	ug/Kg	☼	11/16/15 16:01	11/17/15 12:38	1
2,6-Dinitrotoluene	<210		210	81	ug/Kg	☼	11/16/15 16:01	11/17/15 12:38	1
2-Chloronaphthalene	<210		210	45	ug/Kg	☼	11/16/15 16:01	11/17/15 12:38	1
2-Chlorophenol	<210		210	70	ug/Kg	☼	11/16/15 16:01	11/17/15 12:38	1
2-Methylnaphthalene	<41		41	7.5	ug/Kg	☼	11/16/15 16:01	11/17/15 12:38	1
2-Methylphenol	<210		210	66	ug/Kg	☼	11/16/15 16:01	11/17/15 12:38	1
2-Nitroaniline	<210		210	55	ug/Kg	☼	11/16/15 16:01	11/17/15 12:38	1
2-Nitrophenol	<410		410	97	ug/Kg	☼	11/16/15 16:01	11/17/15 12:38	1
3 & 4 Methylphenol	<210		210	68	ug/Kg	☼	11/16/15 16:01	11/17/15 12:38	1
3,3'-Dichlorobenzidine	<210		210	57	ug/Kg	☼	11/16/15 16:01	11/17/15 12:38	1
3-Nitroaniline	<410		410	130	ug/Kg	☼	11/16/15 16:01	11/17/15 12:38	1
4,6-Dinitro-2-methylphenol	<830		830	330	ug/Kg	☼	11/16/15 16:01	11/17/15 12:38	1
4-Bromophenyl phenyl ether	<210		210	54	ug/Kg	☼	11/16/15 16:01	11/17/15 12:38	1
4-Chloro-3-methylphenol	<410		410	140	ug/Kg	☼	11/16/15 16:01	11/17/15 12:38	1
4-Chloroaniline	<830		830	190	ug/Kg	☼	11/16/15 16:01	11/17/15 12:38	1
4-Chlorophenyl phenyl ether	<210		210	48	ug/Kg	☼	11/16/15 16:01	11/17/15 12:38	1
4-Nitroaniline	<410		410	170	ug/Kg	☼	11/16/15 16:01	11/17/15 12:38	1
4-Nitrophenol	<830		830	390	ug/Kg	☼	11/16/15 16:01	11/17/15 12:38	1
Acenaphthene	<41		41	7.4	ug/Kg	☼	11/16/15 16:01	11/17/15 12:38	1
Acenaphthylene	<41		41	5.4	ug/Kg	☼	11/16/15 16:01	11/17/15 12:38	1
Anthracene	<41		41	6.9	ug/Kg	☼	11/16/15 16:01	11/17/15 12:38	1
Benzo[a]anthracene	<41		41	5.5	ug/Kg	☼	11/16/15 16:01	11/17/15 12:38	1
Benzo[a]pyrene	<41		41	7.9	ug/Kg	☼	11/16/15 16:01	11/17/15 12:38	1
Benzo[b]fluoranthene	<41		41	8.9	ug/Kg	☼	11/16/15 16:01	11/17/15 12:38	1
Benzo[g,h,i]perylene	<41		41	13	ug/Kg	☼	11/16/15 16:01	11/17/15 12:38	1
Benzo[k]fluoranthene	<41		41	12	ug/Kg	☼	11/16/15 16:01	11/17/15 12:38	1
Bis(2-chloroethoxy)methane	<210		210	42	ug/Kg	☼	11/16/15 16:01	11/17/15 12:38	1
Bis(2-chloroethyl)ether	<210		210	61	ug/Kg	☼	11/16/15 16:01	11/17/15 12:38	1
<b>Bis(2-ethylhexyl) phthalate</b>	<b>110</b>	<b>J</b>	210	75	ug/Kg	☼	11/16/15 16:01	11/17/15 12:38	1
Butyl benzyl phthalate	<210		210	78	ug/Kg	☼	11/16/15 16:01	11/17/15 12:38	1
Carbazole	<210		210	100	ug/Kg	☼	11/16/15 16:01	11/17/15 12:38	1
Chrysene	<41		41	11	ug/Kg	☼	11/16/15 16:01	11/17/15 12:38	1
Dibenz(a,h)anthracene	<41		41	7.9	ug/Kg	☼	11/16/15 16:01	11/17/15 12:38	1
Dibenzofuran	<210		210	48	ug/Kg	☼	11/16/15 16:01	11/17/15 12:38	1
Diethyl phthalate	<210		210	69	ug/Kg	☼	11/16/15 16:01	11/17/15 12:38	1
Dimethyl phthalate	<210		210	54	ug/Kg	☼	11/16/15 16:01	11/17/15 12:38	1
Di-n-butyl phthalate	<210		210	62	ug/Kg	☼	11/16/15 16:01	11/17/15 12:38	1
Di-n-octyl phthalate	<210		210	67	ug/Kg	☼	11/16/15 16:01	11/17/15 12:38	1
Fluoranthene	<41		41	7.6	ug/Kg	☼	11/16/15 16:01	11/17/15 12:38	1
Fluorene	<41		41	5.8	ug/Kg	☼	11/16/15 16:01	11/17/15 12:38	1
Hexachlorobenzene	<83		83	9.5	ug/Kg	☼	11/16/15 16:01	11/17/15 12:38	1
Hexachlorobutadiene	<210		210	64	ug/Kg	☼	11/16/15 16:01	11/17/15 12:38	1
Hexachlorocyclopentadiene	<830		830	240	ug/Kg	☼	11/16/15 16:01	11/17/15 12:38	1
Hexachloroethane	<210		210	62	ug/Kg	☼	11/16/15 16:01	11/17/15 12:38	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Illinois Route 120 - WO 027

TestAmerica Job ID: 500-103904-1

**Client Sample ID: RP-1(0-7)-111115**

**Lab Sample ID: 500-103904-8**

**Date Collected: 11/11/15 13:23**

**Matrix: Solid**

**Date Received: 11/12/15 08:00**

**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	<41		41	11	ug/Kg	☼	11/16/15 16:01	11/17/15 12:38	1
Isophorone	<210		210	46	ug/Kg	☼	11/16/15 16:01	11/17/15 12:38	1
Naphthalene	<41		41	6.3	ug/Kg	☼	11/16/15 16:01	11/17/15 12:38	1
Nitrobenzene	<41		41	10	ug/Kg	☼	11/16/15 16:01	11/17/15 12:38	1
N-Nitrosodi-n-propylamine	<210		210	50	ug/Kg	☼	11/16/15 16:01	11/17/15 12:38	1
N-Nitrosodiphenylamine	<210		210	48	ug/Kg	☼	11/16/15 16:01	11/17/15 12:38	1
Pentachlorophenol	<830		830	660	ug/Kg	☼	11/16/15 16:01	11/17/15 12:38	1
Phenanthrene	<41		41	5.7	ug/Kg	☼	11/16/15 16:01	11/17/15 12:38	1
Phenol	<210		210	91	ug/Kg	☼	11/16/15 16:01	11/17/15 12:38	1
Pyrene	<41		41	8.1	ug/Kg	☼	11/16/15 16:01	11/17/15 12:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	136		35 - 137				11/16/15 16:01	11/17/15 12:38	1
2-Fluorobiphenyl	92		25 - 119				11/16/15 16:01	11/17/15 12:38	1
2-Fluorophenol	83		25 - 110				11/16/15 16:01	11/17/15 12:38	1
Nitrobenzene-d5	89		25 - 115				11/16/15 16:01	11/17/15 12:38	1
Phenol-d5	82		31 - 110				11/16/15 16:01	11/17/15 12:38	1
Terphenyl-d14	118		36 - 134				11/16/15 16:01	11/17/15 12:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		11/15/15 09:20	11/17/15 13:59	1
<b>Barium</b>	<b>0.39</b>	<b>J</b>	0.50	0.050	mg/L		11/15/15 09:20	11/17/15 13:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/15/15 09:20	11/17/15 13:59	1
<b>Cadmium</b>	<b>0.0022</b>	<b>J</b>	0.0050	0.0020	mg/L		11/15/15 09:20	11/17/15 13:59	1
Chromium	<0.025		0.025	0.010	mg/L		11/15/15 09:20	11/17/15 13:59	1
Cobalt	<0.025		0.025	0.010	mg/L		11/15/15 09:20	11/17/15 13:59	1
Copper	<0.025		0.025	0.010	mg/L		11/15/15 09:20	11/17/15 13:59	1
<b>Iron</b>	<b>0.37</b>		0.20	0.20	mg/L		11/15/15 09:20	11/17/15 13:59	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/15/15 09:20	11/17/15 13:59	1
<b>Manganese</b>	<b>0.091</b>		0.025	0.010	mg/L		11/15/15 09:20	11/17/15 13:59	1
Nickel	<0.025		0.025	0.010	mg/L		11/15/15 09:20	11/17/15 13:59	1
Selenium	<0.050		0.050	0.020	mg/L		11/15/15 09:20	11/17/15 13:59	1
Silver	<0.025		0.025	0.010	mg/L		11/15/15 09:20	11/17/15 13:59	1
<b>Zinc</b>	<b>0.021</b>	<b>J B</b>	0.10	0.020	mg/L		11/15/15 09:20	11/17/15 13:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.066</b>		0.050	0.010	mg/L		11/15/15 19:08	11/17/15 04:54	1
<b>Barium</b>	<b>0.64</b>	<b>B</b>	0.50	0.050	mg/L		11/15/15 19:08	11/17/15 04:54	1
<b>Beryllium</b>	<b>0.0065</b>		0.0040	0.0040	mg/L		11/15/15 19:08	11/17/15 04:54	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		11/15/15 19:08	11/17/15 04:54	1
<b>Chromium</b>	<b>0.16</b>		0.025	0.010	mg/L		11/15/15 19:08	11/17/15 04:54	1
<b>Cobalt</b>	<b>0.043</b>		0.025	0.010	mg/L		11/15/15 19:08	11/17/15 04:54	1
<b>Copper</b>	<b>0.20</b>		0.025	0.010	mg/L		11/15/15 19:08	11/17/15 04:54	1
<b>Iron</b>	<b>160</b>	<b>B</b>	0.20	0.20	mg/L		11/15/15 19:08	11/17/15 04:54	1
<b>Lead</b>	<b>0.070</b>		0.0075	0.0075	mg/L		11/15/15 19:08	11/17/15 04:54	1
<b>Manganese</b>	<b>0.70</b>		0.025	0.010	mg/L		11/15/15 19:08	11/17/15 04:54	1
<b>Nickel</b>	<b>0.18</b>		0.025	0.010	mg/L		11/15/15 19:08	11/17/15 04:54	1
Selenium	<0.050		0.050	0.020	mg/L		11/15/15 19:08	11/17/15 04:54	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - Illinois Route 120 - WO 027

TestAmerica Job ID: 500-103904-1

**Client Sample ID: RP-1(0-7)-111115**

**Lab Sample ID: 500-103904-8**

**Date Collected: 11/11/15 13:23**

**Matrix: Solid**

**Date Received: 11/12/15 08:00**

**Percent Solids: 80.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		11/15/15 19:08	11/17/15 04:54	1
<b>Zinc</b>	<b>0.55</b>	<b>B</b>	0.10	0.020	mg/L		11/15/15 19:08	11/17/15 04:54	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.40</b>	<b>J</b>	1.1	0.22	mg/Kg	☼	11/19/15 10:57	11/19/15 22:43	1
<b>Arsenic</b>	<b>7.0</b>		0.54	0.25	mg/Kg	☼	11/19/15 10:57	11/19/15 22:43	1
<b>Barium</b>	<b>57</b>		0.54	0.098	mg/Kg	☼	11/19/15 10:57	11/19/15 22:43	1
<b>Beryllium</b>	<b>0.60</b>		0.21	0.047	mg/Kg	☼	11/19/15 10:57	11/19/15 22:43	1
<b>Cadmium</b>	<b>0.17</b>	<b>B</b>	0.11	0.031	mg/Kg	☼	11/19/15 10:57	11/19/15 22:43	1
<b>Calcium</b>	<b>100000</b>	<b>B</b>	110	35	mg/Kg	☼	11/19/15 10:57	11/20/15 21:56	10
<b>Chromium</b>	<b>17</b>	<b>B</b>	0.54	0.092	mg/Kg	☼	11/19/15 10:57	11/19/15 22:43	1
<b>Cobalt</b>	<b>15</b>		0.27	0.061	mg/Kg	☼	11/19/15 10:57	11/19/15 22:43	1
<b>Copper</b>	<b>25</b>		0.54	0.12	mg/Kg	☼	11/19/15 10:57	11/19/15 22:43	1
<b>Iron</b>	<b>18000</b>		11	4.1	mg/Kg	☼	11/19/15 10:57	11/19/15 22:43	1
<b>Lead</b>	<b>13</b>		0.27	0.13	mg/Kg	☼	11/19/15 10:57	11/19/15 22:43	1
<b>Magnesium</b>	<b>35000</b>		5.4	2.2	mg/Kg	☼	11/19/15 10:57	11/19/15 22:43	1
<b>Manganese</b>	<b>490</b>		0.54	0.11	mg/Kg	☼	11/19/15 10:57	11/19/15 22:43	1
<b>Nickel</b>	<b>37</b>		0.54	0.15	mg/Kg	☼	11/19/15 10:57	11/19/15 22:43	1
<b>Potassium</b>	<b>2100</b>		27	4.4	mg/Kg	☼	11/19/15 10:57	11/19/15 22:43	1
<b>Selenium</b>	<b>0.29</b>	<b>J</b>	0.54	0.27	mg/Kg	☼	11/19/15 10:57	11/19/15 22:43	1
Silver	<0.27		0.27	0.063	mg/Kg	☼	11/19/15 10:57	11/19/15 22:43	1
<b>Sodium</b>	<b>1300</b>	<b>B</b>	54	7.1	mg/Kg	☼	11/19/15 10:57	11/19/15 22:43	1
Thallium	<0.54		0.54	0.26	mg/Kg	☼	11/19/15 10:57	11/19/15 22:43	1
<b>Vanadium</b>	<b>19</b>		0.27	0.078	mg/Kg	☼	11/19/15 10:57	11/19/15 22:43	1
<b>Zinc</b>	<b>61</b>	<b>B</b>	1.1	0.34	mg/Kg	☼	11/19/15 10:57	11/19/15 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		11/16/15 17:00	11/17/15 15:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		11/16/15 17:00	11/17/15 12:46	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>23</b>		20	7.0	ug/Kg	☼	11/13/15 17:15	11/16/15 11:16	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.20</b>		0.200	0.200	SU			11/21/15 12:21	1



# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - Illinois Route 120 - WO 027

TestAmerica Job ID: 500-103904-1

**Client Sample ID: RP-4(0-2)-111115**

**Lab Sample ID: 500-103904-12**

**Date Collected: 11/11/15 14:15**

**Matrix: Solid**

**Date Received: 11/12/15 08:00**

**Percent Solids: 83.1**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<24		24	4.7	ug/Kg	☼		11/13/15 15:23	1
Benzene	<6.0		6.0	1.3	ug/Kg	☼		11/13/15 15:23	1
Bromodichloromethane	<6.0		6.0	1.0	ug/Kg	☼		11/13/15 15:23	1
Bromoform	<6.0		6.0	1.2	ug/Kg	☼		11/13/15 15:23	1
Bromomethane	<6.0		6.0	2.2	ug/Kg	☼		11/13/15 15:23	1
Carbon disulfide	<6.0		6.0	2.2	ug/Kg	☼		11/13/15 15:23	1
Carbon tetrachloride	<6.0		6.0	1.3	ug/Kg	☼		11/13/15 15:23	1
Chlorobenzene	<6.0		6.0	1.4	ug/Kg	☼		11/13/15 15:23	1
Chloroethane	<6.0 *		6.0	2.5	ug/Kg	☼		11/13/15 15:23	1
Chloroform	<6.0		6.0	1.2	ug/Kg	☼		11/13/15 15:23	1
Chloromethane	<6.0		6.0	1.4	ug/Kg	☼		11/13/15 15:23	1
cis-1,2-Dichloroethene	<6.0		6.0	1.2	ug/Kg	☼		11/13/15 15:23	1
cis-1,3-Dichloropropene	<6.0		6.0	1.4	ug/Kg	☼		11/13/15 15:23	1
Dibromochloromethane	<6.0		6.0	0.69	ug/Kg	☼		11/13/15 15:23	1
1,1-Dichloroethane	<6.0		6.0	1.2	ug/Kg	☼		11/13/15 15:23	1
1,2-Dichloroethane	<6.0		6.0	0.89	ug/Kg	☼		11/13/15 15:23	1
1,1-Dichloroethene	<6.0		6.0	2.2	ug/Kg	☼		11/13/15 15:23	1
1,2-Dichloropropane	<6.0		6.0	1.6	ug/Kg	☼		11/13/15 15:23	1
1,3-Dichloropropene, Total	<6.0		6.0	1.7	ug/Kg	☼		11/13/15 15:23	1
Ethylbenzene	<6.0		6.0	1.5	ug/Kg	☼		11/13/15 15:23	1
2-Hexanone	<6.0		6.0	1.9	ug/Kg	☼		11/13/15 15:23	1
Methylene Chloride	<6.0		6.0	4.5	ug/Kg	☼		11/13/15 15:23	1
Methyl Ethyl Ketone	<6.0		6.0	2.1	ug/Kg	☼		11/13/15 15:23	1
methyl isobutyl ketone	<6.0		6.0	1.2	ug/Kg	☼		11/13/15 15:23	1
Methyl tert-butyl ether	<6.0		6.0	1.4	ug/Kg	☼		11/13/15 15:23	1
Styrene	<6.0		6.0	1.4	ug/Kg	☼		11/13/15 15:23	1
1,1,2,2-Tetrachloroethane	<6.0		6.0	0.96	ug/Kg	☼		11/13/15 15:23	1
Tetrachloroethene	<6.0		6.0	1.3	ug/Kg	☼		11/13/15 15:23	1
Toluene	<6.0		6.0	2.1	ug/Kg	☼		11/13/15 15:23	1
trans-1,2-Dichloroethene	<6.0		6.0	1.5	ug/Kg	☼		11/13/15 15:23	1
trans-1,3-Dichloropropene	<6.0		6.0	1.7	ug/Kg	☼		11/13/15 15:23	1
1,1,1-Trichloroethane	<6.0		6.0	1.4	ug/Kg	☼		11/13/15 15:23	1
1,1,2-Trichloroethane	<6.0		6.0	1.2	ug/Kg	☼		11/13/15 15:23	1
Trichloroethene	<6.0		6.0	1.6	ug/Kg	☼		11/13/15 15:23	1
Vinyl chloride	<6.0		6.0	1.4	ug/Kg	☼		11/13/15 15:23	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		11/13/15 15:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 122		11/13/15 15:23	1
Dibromofluoromethane	106		75 - 120		11/13/15 15:23	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 134		11/13/15 15:23	1
Toluene-d8 (Surr)	96		75 - 122		11/13/15 15:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	41	ug/Kg	☼	11/16/15 16:01	11/17/15 15:29	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	11/16/15 16:01	11/17/15 15:29	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	11/16/15 16:01	11/17/15 15:29	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	11/16/15 16:01	11/17/15 15:29	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	11/16/15 16:01	11/17/15 15:29	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - Illinois Route 120 - WO 027

TestAmerica Job ID: 500-103904-1

**Client Sample ID: RP-4(0-2)-111115**

**Lab Sample ID: 500-103904-12**

**Date Collected: 11/11/15 14:15**

**Matrix: Solid**

**Date Received: 11/12/15 08:00**

**Percent Solids: 83.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<380		380	87	ug/Kg	☼	11/16/15 16:01	11/17/15 15:29	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	11/16/15 16:01	11/17/15 15:29	1
2,4-Dichlorophenol	<380		380	90	ug/Kg	☼	11/16/15 16:01	11/17/15 15:29	1
2,4-Dimethylphenol	<380		380	140	ug/Kg	☼	11/16/15 16:01	11/17/15 15:29	1
2,4-Dinitrophenol	<770		770	670	ug/Kg	☼	11/16/15 16:01	11/17/15 15:29	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	11/16/15 16:01	11/17/15 15:29	1
2,6-Dinitrotoluene	<190		190	75	ug/Kg	☼	11/16/15 16:01	11/17/15 15:29	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	11/16/15 16:01	11/17/15 15:29	1
2-Chlorophenol	<190		190	65	ug/Kg	☼	11/16/15 16:01	11/17/15 15:29	1
2-Methylnaphthalene	<38		38	7.0	ug/Kg	☼	11/16/15 16:01	11/17/15 15:29	1
2-Methylphenol	<190		190	61	ug/Kg	☼	11/16/15 16:01	11/17/15 15:29	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	11/16/15 16:01	11/17/15 15:29	1
2-Nitrophenol	<380		380	90	ug/Kg	☼	11/16/15 16:01	11/17/15 15:29	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	11/16/15 16:01	11/17/15 15:29	1
3,3'-Dichlorobenzidine	<190		190	53	ug/Kg	☼	11/16/15 16:01	11/17/15 15:29	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	11/16/15 16:01	11/17/15 15:29	1
4,6-Dinitro-2-methylphenol	<770		770	310	ug/Kg	☼	11/16/15 16:01	11/17/15 15:29	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	11/16/15 16:01	11/17/15 15:29	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	11/16/15 16:01	11/17/15 15:29	1
4-Chloroaniline	<770		770	180	ug/Kg	☼	11/16/15 16:01	11/17/15 15:29	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	11/16/15 16:01	11/17/15 15:29	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	11/16/15 16:01	11/17/15 15:29	1
4-Nitrophenol	<770		770	360	ug/Kg	☼	11/16/15 16:01	11/17/15 15:29	1
Acenaphthene	<38		38	6.8	ug/Kg	☼	11/16/15 16:01	11/17/15 15:29	1
Acenaphthylene	<38		38	5.0	ug/Kg	☼	11/16/15 16:01	11/17/15 15:29	1
<b>Anthracene</b>	<b>14</b>	<b>J</b>	38	6.4	ug/Kg	☼	11/16/15 16:01	11/17/15 15:29	1
<b>Benzo[a]anthracene</b>	<b>89</b>		38	5.1	ug/Kg	☼	11/16/15 16:01	11/17/15 15:29	1
<b>Benzo[a]pyrene</b>	<b>100</b>		38	7.4	ug/Kg	☼	11/16/15 16:01	11/17/15 15:29	1
<b>Benzo[b]fluoranthene</b>	<b>190</b>		38	8.2	ug/Kg	☼	11/16/15 16:01	11/17/15 15:29	1
<b>Benzo[g,h,i]perylene</b>	<b>54</b>		38	12	ug/Kg	☼	11/16/15 16:01	11/17/15 15:29	1
<b>Benzo[k]fluoranthene</b>	<b>63</b>		38	11	ug/Kg	☼	11/16/15 16:01	11/17/15 15:29	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	11/16/15 16:01	11/17/15 15:29	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	11/16/15 16:01	11/17/15 15:29	1
Bis(2-ethylhexyl) phthalate	<190		190	70	ug/Kg	☼	11/16/15 16:01	11/17/15 15:29	1
Butyl benzyl phthalate	<190		190	72	ug/Kg	☼	11/16/15 16:01	11/17/15 15:29	1
Carbazole	<190		190	95	ug/Kg	☼	11/16/15 16:01	11/17/15 15:29	1
<b>Chrysene</b>	<b>120</b>		38	10	ug/Kg	☼	11/16/15 16:01	11/17/15 15:29	1
<b>Dibenz(a,h)anthracene</b>	<b>8.0</b>	<b>J</b>	38	7.4	ug/Kg	☼	11/16/15 16:01	11/17/15 15:29	1
Dibenzofuran	<190		190	45	ug/Kg	☼	11/16/15 16:01	11/17/15 15:29	1
Diethyl phthalate	<190		190	65	ug/Kg	☼	11/16/15 16:01	11/17/15 15:29	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	11/16/15 16:01	11/17/15 15:29	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	11/16/15 16:01	11/17/15 15:29	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	11/16/15 16:01	11/17/15 15:29	1
<b>Fluoranthene</b>	<b>240</b>		38	7.1	ug/Kg	☼	11/16/15 16:01	11/17/15 15:29	1
<b>Fluorene</b>	<b>5.5</b>	<b>J</b>	38	5.4	ug/Kg	☼	11/16/15 16:01	11/17/15 15:29	1
Hexachlorobenzene	<77		77	8.8	ug/Kg	☼	11/16/15 16:01	11/17/15 15:29	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	11/16/15 16:01	11/17/15 15:29	1
Hexachlorocyclopentadiene	<770		770	220	ug/Kg	☼	11/16/15 16:01	11/17/15 15:29	1
Hexachloroethane	<190		190	58	ug/Kg	☼	11/16/15 16:01	11/17/15 15:29	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - Illinois Route 120 - WO 027

TestAmerica Job ID: 500-103904-1

**Client Sample ID: RP-4(0-2)-111115**

**Lab Sample ID: 500-103904-12**

**Date Collected: 11/11/15 14:15**

**Matrix: Solid**

**Date Received: 11/12/15 08:00**

**Percent Solids: 83.1**

**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>46</b>		38	9.9	ug/Kg	☼	11/16/15 16:01	11/17/15 15:29	1
Isophorone	<190		190	43	ug/Kg	☼	11/16/15 16:01	11/17/15 15:29	1
Naphthalene	<38		38	5.9	ug/Kg	☼	11/16/15 16:01	11/17/15 15:29	1
Nitrobenzene	<38		38	9.5	ug/Kg	☼	11/16/15 16:01	11/17/15 15:29	1
N-Nitrosodi-n-propylamine	<190		190	47	ug/Kg	☼	11/16/15 16:01	11/17/15 15:29	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	11/16/15 16:01	11/17/15 15:29	1
Pentachlorophenol	<770		770	610	ug/Kg	☼	11/16/15 16:01	11/17/15 15:29	1
<b>Phenanthrene</b>	<b>95</b>		38	5.3	ug/Kg	☼	11/16/15 16:01	11/17/15 15:29	1
Phenol	<190		190	85	ug/Kg	☼	11/16/15 16:01	11/17/15 15:29	1
<b>Pyrene</b>	<b>170</b>		38	7.6	ug/Kg	☼	11/16/15 16:01	11/17/15 15:29	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	124		35 - 137				11/16/15 16:01	11/17/15 15:29	1
2-Fluorobiphenyl	88		25 - 119				11/16/15 16:01	11/17/15 15:29	1
2-Fluorophenol	82		25 - 110				11/16/15 16:01	11/17/15 15:29	1
Nitrobenzene-d5	82		25 - 115				11/16/15 16:01	11/17/15 15:29	1
Phenol-d5	75		31 - 110				11/16/15 16:01	11/17/15 15:29	1
Terphenyl-d14	103		36 - 134				11/16/15 16:01	11/17/15 15:29	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		11/15/15 09:20	11/17/15 14:20	1
<b>Barium</b>	<b>0.39</b>	<b>J</b>	0.50	0.050	mg/L		11/15/15 09:20	11/17/15 14:20	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		11/15/15 09:20	11/17/15 14:20	1
<b>Cadmium</b>	<b>0.0024</b>	<b>J</b>	0.0050	0.0020	mg/L		11/15/15 09:20	11/17/15 14:20	1
Chromium	<0.025		0.025	0.010	mg/L		11/15/15 09:20	11/17/15 14:20	1
Cobalt	<0.025		0.025	0.010	mg/L		11/15/15 09:20	11/17/15 14:20	1
Copper	<0.025		0.025	0.010	mg/L		11/15/15 09:20	11/17/15 14:20	1
<b>Iron</b>	<b>0.21</b>		0.20	0.20	mg/L		11/15/15 09:20	11/17/15 14:20	1
Lead	<0.0075		0.0075	0.0075	mg/L		11/15/15 09:20	11/17/15 14:20	1
<b>Manganese</b>	<b>0.14</b>		0.025	0.010	mg/L		11/15/15 09:20	11/17/15 14:20	1
Nickel	<0.025		0.025	0.010	mg/L		11/15/15 09:20	11/17/15 14:20	1
Selenium	<0.050		0.050	0.020	mg/L		11/15/15 09:20	11/17/15 14:20	1
Silver	<0.025		0.025	0.010	mg/L		11/15/15 09:20	11/17/15 14:20	1
<b>Zinc</b>	<b>0.10</b>	<b>B</b>	0.10	0.020	mg/L		11/15/15 09:20	11/17/15 14:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.063</b>		0.050	0.010	mg/L		11/15/15 19:08	11/17/15 05:37	1
<b>Barium</b>	<b>0.77</b>	<b>B</b>	0.50	0.050	mg/L		11/15/15 19:08	11/17/15 05:37	1
<b>Beryllium</b>	<b>0.0069</b>		0.0040	0.0040	mg/L		11/15/15 19:08	11/17/15 05:37	1
<b>Cadmium</b>	<b>0.0023</b>	<b>J</b>	0.0050	0.0020	mg/L		11/15/15 19:08	11/17/15 05:37	1
<b>Chromium</b>	<b>0.20</b>		0.025	0.010	mg/L		11/15/15 19:08	11/17/15 05:37	1
<b>Cobalt</b>	<b>0.049</b>		0.025	0.010	mg/L		11/15/15 19:08	11/17/15 05:37	1
<b>Copper</b>	<b>0.18</b>		0.025	0.010	mg/L		11/15/15 19:08	11/17/15 05:37	1
<b>Iron</b>	<b>190</b>	<b>B</b>	0.20	0.20	mg/L		11/15/15 19:08	11/17/15 05:37	1
<b>Lead</b>	<b>0.36</b>		0.0075	0.0075	mg/L		11/15/15 19:08	11/17/15 05:37	1
<b>Manganese</b>	<b>1.4</b>		0.025	0.010	mg/L		11/15/15 19:08	11/17/15 05:37	1
<b>Nickel</b>	<b>0.18</b>		0.025	0.010	mg/L		11/15/15 19:08	11/17/15 05:37	1
Selenium	<0.050		0.050	0.020	mg/L		11/15/15 19:08	11/17/15 05:37	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Illinois Route 120 - WO 027

TestAmerica Job ID: 500-103904-1

**Client Sample ID: RP-4(0-2)-111115**

**Lab Sample ID: 500-103904-12**

**Date Collected: 11/11/15 14:15**

**Matrix: Solid**

**Date Received: 11/12/15 08:00**

**Percent Solids: 83.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		11/15/15 19:08	11/17/15 05:37	1
<b>Zinc</b>	<b>0.83</b>	<b>B</b>	0.10	0.020	mg/L		11/15/15 19:08	11/17/15 05:37	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.26</b>	<b>J</b>	1.1	0.23	mg/Kg	☼	11/19/15 10:57	11/19/15 23:04	1
<b>Arsenic</b>	<b>4.6</b>		0.56	0.26	mg/Kg	☼	11/19/15 10:57	11/19/15 23:04	1
<b>Barium</b>	<b>58</b>		0.56	0.10	mg/Kg	☼	11/19/15 10:57	11/19/15 23:04	1
<b>Beryllium</b>	<b>0.52</b>		0.22	0.049	mg/Kg	☼	11/19/15 10:57	11/19/15 23:04	1
<b>Cadmium</b>	<b>0.26</b>	<b>B</b>	0.11	0.033	mg/Kg	☼	11/19/15 10:57	11/19/15 23:04	1
<b>Calcium</b>	<b>26000</b>	<b>B</b>	11	3.6	mg/Kg	☼	11/19/15 10:57	11/19/15 23:04	1
<b>Chromium</b>	<b>19</b>	<b>B</b>	0.56	0.097	mg/Kg	☼	11/19/15 10:57	11/19/15 23:04	1
<b>Cobalt</b>	<b>8.4</b>		0.28	0.063	mg/Kg	☼	11/19/15 10:57	11/19/15 23:04	1
<b>Copper</b>	<b>23</b>		0.56	0.12	mg/Kg	☼	11/19/15 10:57	11/19/15 23:04	1
<b>Iron</b>	<b>14000</b>		11	4.3	mg/Kg	☼	11/19/15 10:57	11/19/15 23:04	1
<b>Lead</b>	<b>130</b>		0.28	0.14	mg/Kg	☼	11/19/15 10:57	11/19/15 23:04	1
<b>Magnesium</b>	<b>18000</b>		5.6	2.3	mg/Kg	☼	11/19/15 10:57	11/19/15 23:04	1
<b>Manganese</b>	<b>310</b>		0.56	0.11	mg/Kg	☼	11/19/15 10:57	11/19/15 23:04	1
<b>Nickel</b>	<b>19</b>		0.56	0.15	mg/Kg	☼	11/19/15 10:57	11/19/15 23:04	1
<b>Potassium</b>	<b>1200</b>		28	4.6	mg/Kg	☼	11/19/15 10:57	11/19/15 23:04	1
<b>Selenium</b>	<b>0.42</b>	<b>J</b>	0.56	0.28	mg/Kg	☼	11/19/15 10:57	11/19/15 23:04	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	11/19/15 10:57	11/19/15 23:04	1
<b>Sodium</b>	<b>1600</b>	<b>B</b>	56	7.4	mg/Kg	☼	11/19/15 10:57	11/19/15 23:04	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	11/19/15 10:57	11/19/15 23:04	1
<b>Vanadium</b>	<b>20</b>		0.28	0.082	mg/Kg	☼	11/19/15 10:57	11/19/15 23:04	1
<b>Zinc</b>	<b>120</b>	<b>B</b>	1.1	0.36	mg/Kg	☼	11/19/15 10:57	11/19/15 23:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		11/16/15 17:00	11/17/15 11:54	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		11/16/15 17:00	11/17/15 12:54	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>63</b>		17	6.0	ug/Kg	☼	11/13/15 17:15	11/16/15 11:23	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.46</b>		0.200	0.200	SU			11/21/15 12:29	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Illinois Route 120 - WO 027

TestAmerica Job ID: 500-103904-1

## Qualifiers

### GC/MS VOA

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

### Metals

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

## Glossary

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

# Certification Summary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Illinois Route 120 - WO 027

TestAmerica Job ID: 500-103904-1

## 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	04-30-16

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

Analysis Method	Prep Method	Matrix	Analyte
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) S. Babusukumar  
 Contact: S. Babusukumar  
 Company: Weston Solutions  
 Address: 300 Plaza Cir, Ste 202  
 Address: Mundelein, IL 60060  
 Phone: 224-864-7230  
 Fax: \_\_\_\_\_  
 E-Mail: \_\_\_\_\_

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

## Chain of Custody Record

Lab Job #: 500-103904  
 Chain of Custody Number: \_\_\_\_\_  
 Page 2 of 4  
 Temperature °C of Cooler: (2.9)(3.1)

Client		Client Project #		Preservative		Parameter		Matrix		Preservative Key		
<u>Weston</u>										 500-103904 COC		
Project Name		Project Location/State		Lab Project #		Sampler		Lab RM		Comments		
<u>EDOT 027</u>		<u>Mundelein, IL</u>				<u>H. Turka</u>		<u>Dick weights</u>				
Lab ID	MIS/MSD	Sample ID	Sampling		# of Containers	Matrix	VOC	SVOC	Total Metals	TECP Metals	SP Metals	PH
			Date	Time								
1		VLS-1(5-10)-11115	11/11/15	1215	2	S	X	X	X	X	X	
2		CB8-1(0-6)-11115	11/11/15	1232	2	S	X	X	X	X	X	
3		CB8-1(0-13)-11115	11/11/15	1236	2	S	X	X	X	X	X	
4		CB8-2(0-5)-11115	11/11/15	1250	2	S	X	X	X	X	X	
5		CB8-2(0-5)-11115	11/11/15	1250	2	S	X	X	X	X	X	
6		VL14-1(0-5)-11115	11/11/15	1305	2	S	X	X	X	X	X	
7		VL14-1(5-11)-11115	11/11/15	1309	2	S	X	X	X	X	X	
8		RP-1(0-7)-11115	11/11/15	1323	2	S	X	X	X	X	X	
9		RP-1(7-14)-11115	11/11/15	1329	2	S	X	X	X	X	X	
10		RP-2(0-2)-11115	11/11/15	1347	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  
 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>Ashish</u>	Company <u>Weston</u>	Date <u>11/11/15</u>	Time <u>1540</u>	Received By <u>A. Neal</u>	Company <u>TA</u>	Date <u>11/11/15</u>	Time <u>1540</u>	Lab Courier	<input checked="" type="checkbox"/>
Relinquished By <u>A. Neal</u>	Company <u>TA</u>	Date <u>11/11/15</u>	Time <u>1730</u>	Received By <u>Shank</u>	Company <u>TAL</u>	Date <u>11/12/15</u>	Time <u>0800</u>	Shipped	<input type="checkbox"/>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	Hand Delivered	<input type="checkbox"/>

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  
Address: 300 plaza Cir, Ste 207  
Mundelein, IL 60060  
Address: 224-864-7250  
Phone: 224-864-7250  
Fax:  
E-Mail:

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

## Chain of Custody Record

Lab Job #: 500-103904

Chain of Custody Number: \_\_\_\_\_

Page 1 of 4

Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter		Comments				
Weston Solutions								Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other				
Project Name		Project Location/State		Lab Project #		Sampler						
IDOT 027		Hainesville, IL				A. Tuckas		Dick Wright				
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	VOC	SVOC	Total Metals	TCUP/SPUP Metals	PH	Comments
			Date	Time								
11		RP-3(0-2)-11115	11/11/15	1405	2	S	X	X	X	X	X	
12		RP-4(0-2)-11115	11/11/15	1415	2	S	X	X	X	X	X	
13		PV-1(0-5)-11115	11/11/15	1430	2	S	X	X	X	X	X	
<div style="border: 1px solid black; width: 100%; height: 100%; transform: rotate(180deg); opacity: 0.5;"></div>												

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>Alvin M Tap</u>	Company <u>Weston</u>	Date <u>11/11/15</u>	Time <u>1540</u>	Received By <u>P. Neal</u>	Company <u>TA</u>	Date <u>11/11/15</u>	Time <u>1540</u>
Relinquished By <u>P. Neal</u>	Company <u>TA</u>	Date <u>11/11/15</u>	Time <u>1730</u>	Received By <u>S. K...</u>	Company <u>TAL</u>	Date <u>11/12/15</u>	Time <u>0800</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier

Shipped

Hand Delivered

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

Client Comments

Lab Comments: