



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 374: IL 21 at IL 58 and Greenwood Ave Office Phone Number, if available: \_\_\_\_\_

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

239 Golf Mill Center (ISGS Site No. 2825-10)

City: Niles State: IL Zip Code: \_\_\_\_\_

County: Cook Township: \_\_\_\_\_

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

Latitude: 42.054434562 Longitude: -87.838271479  
(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 374: IL 21 at IL 58 and Greenwood Ave

Latitude: 42.054434562 Longitude: -87.838271479

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 GM-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2825-10. SEE FIGURE 3-2 AND TABLE 4-1 OF THE PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

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

TEST AMERICA ANALYTICAL REPORT - JOB ID: 500-92697-1.  
ALSO SEE FIGURE 4-2 OF THE REVISED PRELIMINARY SITE INVESTIGATION REPORT.

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

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

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

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

Michael A. Castillo, P.G.  
 Printed Name:

Michael Castillo

April 15, 2015

Licensed Professional Engineer or  
 Licensed Professional Geologist Signature:

Date:



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

**Summary Table of ISGS Site No. 2825-10**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 374: Illinois Route 21 at Illinois Route 58 and Greenwood Avenue**  
**Niles and Glenview, Cook County, Illinois**

Field Sample ID	GM-1(0-7)-022615	GM-1(7-15)-022615	Soil Reference Concentrations <sup>A</sup>
Sample Date	2/26/2015	2/26/2015	
Location ID	GM-1	GM-1	
Depth	0 - 7	7 - 15	
ISGS Site No.	2528-10	2528-10	
Parameter			
Laboratory pH	8.45	8.1	<6.25,>9.0
<b>VOCs</b>	None Detected		
<b>SVOCs (ug/kg)</b>			
Benzo(a)anthracene	12 J	ND	900 / 1100 / 1800
Benzo(a)pyrene	12 J	ND	90 / 1300 / 2100
Benzo(b)fluoranthene	22 J	ND	900 / 1500 / 2100
Benzo(g,h,i)perylene	ND	27 J	---
Chrysene	18 J	16 J	88000
Di-N-Octyl phthalate	ND	100 J	1600000
Fluoranthene	13 J	ND	3100000
Indeno(1,2,3-cd)pyrene	16 J	ND	900 / 900 / 1600
Phenanthrene	12 J	28 J	---
Pyrene	41 J	18 J	2300000
<b>Total Metals (mg/kg)</b>			
Arsenic, Total	7.3 J-	5.1 J-	11.3 / 13
Barium, Total	79 J	65 J	1500
Beryllium, Total	0.99	0.96	22
Calcium, Total	54000 J	44000 J	---
Chromium, Total	26	30	21
Cobalt, Total	11 J	15 J	20
Copper, Total	22 J	19 J	2900
Iron, Total	25000 J	25000 J	15000 / 15900
Lead, Total	16 J	8.5 J	107
Magnesium, Total	27000 J	20000 J	325000
Manganese, Total	380 J	360 J	630 / 636
Mercury, Total	0.043 J	0.022 J	0.89
Nickel, Total	30	36	100
Potassium, Total	2700 J+	3500 J+	---
Selenium, Total	0.61 J	0.73	1.3
Silver, Total	ND	0.073 J	4.4
Sodium, Total	450	210	---
Thallium, Total	1.6	1.5	2.6
Vanadium, Total	26	23	550
Zinc, Total	52 J	52 J	5100
<b>TCLP Metals (mg/l)</b>			
Barium, TCLP	0.52	0.64	2
Cadmium, TCLP	0.0026 J	ND	0.005
Cobalt, TCLP	ND	ND	1
Copper, TCLP	0.055	0.025	0.65
Lead, TCLP	0.01	ND	0.0075
Manganese, TCLP	0.2	1.1	0.15
Zinc, TCLP	0.05 J	0.034 J	5
<b>SPLP Metals (mg/l)</b>			
Arsenic, SPLP	0.035 J	ND	0.05
Barium, SPLP	0.57	0.11 J	2
Beryllium, SPLP	0.0055	ND	0.004
Chromium, SPLP	0.14	0.019 J	0.1
Cobalt, SPLP	0.032	ND	1
Copper, SPLP	0.11	0.021 J	0.65
Iron, SPLP	110 J+	7.3 J+	5
Lead, SPLP	0.096	ND	0.0075
Manganese, SPLP	0.45	0.065	0.15
Nickel, SPLP	0.13	ND	0.1
Zinc, SPLP	0.28	0.051 J	5
Percent Solids	79	81	

**Summary Table of ISGS Site No. 2825-10**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 374: Illinois Route 21 at Illinois Route 58 and Greenwood Avenue**  
**Niles and Glenview, Cook 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.

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: 500-92697-1

Client Project/Site: IDOT - Niles and Glenview - WO 011

For:

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

Attn: Mr. S. Babusukumar



Authorized for release by:  
3/10/2015 4:21:48 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 - Niles and Glenview - WO 011

TestAmerica Job ID: 500-92697-1

**Client Sample ID: GM-1(0-7)-022615**

**Lab Sample ID: 500-92697-13**

**Date Collected: 02/26/15 15:25**

**Matrix: Solid**

**Date Received: 02/27/15 12:30**

**Percent Solids: 78.5**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<6.4		6.4	2.8	ug/Kg	*		03/04/15 22:37	1
Benzene	<6.4		6.4	0.87	ug/Kg	*		03/04/15 22:37	1
Bromodichloromethane	<6.4		6.4	1.1	ug/Kg	*		03/04/15 22:37	1
Bromoform	<6.4		6.4	1.5	ug/Kg	*		03/04/15 22:37	1
Bromomethane	<6.4		6.4	1.9	ug/Kg	*		03/04/15 22:37	1
Carbon disulfide	<6.4		6.4	0.95	ug/Kg	*		03/04/15 22:37	1
Carbon tetrachloride	<6.4		6.4	1.2	ug/Kg	*		03/04/15 22:37	1
Chlorobenzene	<6.4		6.4	0.65	ug/Kg	*		03/04/15 22:37	1
Chloroethane	<6.4		6.4	1.7	ug/Kg	*		03/04/15 22:37	1
Chloroform	<6.4		6.4	0.73	ug/Kg	*		03/04/15 22:37	1
Chloromethane	<6.4		6.4	1.3	ug/Kg	*		03/04/15 22:37	1
cis-1,2-Dichloroethene	<6.4		6.4	0.90	ug/Kg	*		03/04/15 22:37	1
cis-1,3-Dichloropropene	<6.4		6.4	0.84	ug/Kg	*		03/04/15 22:37	1
Dibromochloromethane	<6.4		6.4	1.1	ug/Kg	*		03/04/15 22:37	1
1,1-Dichloroethane	<6.4		6.4	1.0	ug/Kg	*		03/04/15 22:37	1
1,2-Dichloroethane	<6.4		6.4	0.94	ug/Kg	*		03/04/15 22:37	1
1,1-Dichloroethene	<6.4		6.4	1.0	ug/Kg	*		03/04/15 22:37	1
1,2-Dichloropropane	<6.4		6.4	0.97	ug/Kg	*		03/04/15 22:37	1
1,3-Dichloropropene, Total	<6.4		6.4	0.84	ug/Kg	*		03/04/15 22:37	1
Ethylbenzene	<6.4		6.4	1.3	ug/Kg	*		03/04/15 22:37	1
2-Hexanone	<6.4		6.4	1.8	ug/Kg	*		03/04/15 22:37	1
Methylene Chloride	<6.4		6.4	1.7	ug/Kg	*		03/04/15 22:37	1
Methyl Ethyl Ketone	<6.4		6.4	2.3	ug/Kg	*		03/04/15 22:37	1
methyl isobutyl ketone	<6.4		6.4	1.7	ug/Kg	*		03/04/15 22:37	1
Methyl tert-butyl ether	<6.4		6.4	1.1	ug/Kg	*		03/04/15 22:37	1
Styrene	<6.4		6.4	0.84	ug/Kg	*		03/04/15 22:37	1
1,1,2,2-Tetrachloroethane	<6.4		6.4	1.3	ug/Kg	*		03/04/15 22:37	1
Tetrachloroethene	<6.4		6.4	0.97	ug/Kg	*		03/04/15 22:37	1
Toluene	<6.4		6.4	0.89	ug/Kg	*		03/04/15 22:37	1
trans-1,2-Dichloroethene	<6.4		6.4	0.88	ug/Kg	*		03/04/15 22:37	1
trans-1,3-Dichloropropene	<6.4		6.4	1.1	ug/Kg	*		03/04/15 22:37	1
1,1,1-Trichloroethane	<6.4		6.4	0.95	ug/Kg	*		03/04/15 22:37	1
1,1,2-Trichloroethane	<6.4		6.4	0.87	ug/Kg	*		03/04/15 22:37	1
Trichloroethene	<6.4		6.4	1.1	ug/Kg	*		03/04/15 22:37	1
Vinyl chloride	<6.4		6.4	1.3	ug/Kg	*		03/04/15 22:37	1
Xylenes, Total	<13		13	0.58	ug/Kg	*		03/04/15 22:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 122		03/04/15 22:37	1
Dibromofluoromethane	91		75 - 120		03/04/15 22:37	1
1,2-Dichloroethane-d4 (Surr)	86		70 - 134		03/04/15 22:37	1
Toluene-d8 (Surr)	96		75 - 122		03/04/15 22:37	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	*	03/02/15 16:12	03/07/15 01:30	1
1,2-Dichlorobenzene	<210		210	50	ug/Kg	*	03/02/15 16:12	03/07/15 01:30	1
1,3-Dichlorobenzene	<210		210	47	ug/Kg	*	03/02/15 16:12	03/07/15 01:30	1
1,4-Dichlorobenzene	<210		210	54	ug/Kg	*	03/02/15 16:12	03/07/15 01:30	1
2,2'-oxybis[1-chloropropane]	<210		210	49	ug/Kg	*	03/02/15 16:12	03/07/15 01:30	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Niles and Glenview - WO 011

TestAmerica Job ID: 500-92697-1

**Client Sample ID: GM-1(0-7)-022615**

**Lab Sample ID: 500-92697-13**

Date Collected: 02/26/15 15:25

Matrix: Solid

Date Received: 02/27/15 12:30

Percent Solids: 78.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<420		420	96	ug/Kg	☼	03/02/15 16:12	03/07/15 01:30	1
2,4,6-Trichlorophenol	<420		420	140	ug/Kg	☼	03/02/15 16:12	03/07/15 01:30	1
2,4-Dichlorophenol	<420		420	100	ug/Kg	☼	03/02/15 16:12	03/07/15 01:30	1
2,4-Dimethylphenol	<420		420	160	ug/Kg	☼	03/02/15 16:12	03/07/15 01:30	1
2,4-Dinitrophenol	<850	*	850	740	ug/Kg	☼	03/02/15 16:12	03/07/15 01:30	1
2,4-Dinitrotoluene	<210		210	67	ug/Kg	☼	03/02/15 16:12	03/07/15 01:30	1
2,6-Dinitrotoluene	<210		210	83	ug/Kg	☼	03/02/15 16:12	03/07/15 01:30	1
2-Chloronaphthalene	<210		210	46	ug/Kg	☼	03/02/15 16:12	03/07/15 01:30	1
2-Chlorophenol	<210		210	72	ug/Kg	☼	03/02/15 16:12	03/07/15 01:30	1
2-Methylnaphthalene	<42		42	7.7	ug/Kg	☼	03/02/15 16:12	03/07/15 01:30	1
2-Methylphenol	<210		210	67	ug/Kg	☼	03/02/15 16:12	03/07/15 01:30	1
2-Nitroaniline	<210		210	57	ug/Kg	☼	03/02/15 16:12	03/07/15 01:30	1
2-Nitrophenol	<420		420	99	ug/Kg	☼	03/02/15 16:12	03/07/15 01:30	1
3 & 4 Methylphenol	<210		210	70	ug/Kg	☼	03/02/15 16:12	03/07/15 01:30	1
3,3'-Dichlorobenzidine	<210		210	59	ug/Kg	☼	03/02/15 16:12	03/07/15 01:30	1
3-Nitroaniline	<420		420	130	ug/Kg	☼	03/02/15 16:12	03/07/15 01:30	1
4,6-Dinitro-2-methylphenol	<420	*	420	340	ug/Kg	☼	03/02/15 16:12	03/07/15 01:30	1
4-Bromophenyl phenyl ether	<210		210	55	ug/Kg	☼	03/02/15 16:12	03/07/15 01:30	1
4-Chloro-3-methylphenol	<420		420	140	ug/Kg	☼	03/02/15 16:12	03/07/15 01:30	1
4-Chloroaniline	<850		850	200	ug/Kg	☼	03/02/15 16:12	03/07/15 01:30	1
4-Chlorophenyl phenyl ether	<210		210	49	ug/Kg	☼	03/02/15 16:12	03/07/15 01:30	1
4-Nitroaniline	<420		420	180	ug/Kg	☼	03/02/15 16:12	03/07/15 01:30	1
4-Nitrophenol	<850		850	400	ug/Kg	☼	03/02/15 16:12	03/07/15 01:30	1
Acenaphthene	<42		42	7.5	ug/Kg	☼	03/02/15 16:12	03/07/15 01:30	1
Acenaphthylene	<42		42	5.5	ug/Kg	☼	03/02/15 16:12	03/07/15 01:30	1
Anthracene	<42		42	7.0	ug/Kg	☼	03/02/15 16:12	03/07/15 01:30	1
<b>Benzo[a]anthracene</b>	<b>12</b>	<b>J</b>	42	5.7	ug/Kg	☼	03/02/15 16:12	03/07/15 01:30	1
<b>Benzo[a]pyrene</b>	<b>12</b>	<b>J</b>	42	8.1	ug/Kg	☼	03/02/15 16:12	03/07/15 01:30	1
<b>Benzo[b]fluoranthene</b>	<b>22</b>	<b>J</b>	42	9.1	ug/Kg	☼	03/02/15 16:12	03/07/15 01:30	1
Benzo[g,h,i]perylene	<42		42	14	ug/Kg	☼	03/02/15 16:12	03/07/15 01:30	1
Benzo[k]fluoranthene	<42		42	12	ug/Kg	☼	03/02/15 16:12	03/07/15 01:30	1
Bis(2-chloroethoxy)methane	<210		210	43	ug/Kg	☼	03/02/15 16:12	03/07/15 01:30	1
Bis(2-chloroethyl)ether	<210		210	63	ug/Kg	☼	03/02/15 16:12	03/07/15 01:30	1
Bis(2-ethylhexyl) phthalate	<210		210	77	ug/Kg	☼	03/02/15 16:12	03/07/15 01:30	1
Butyl benzyl phthalate	<210		210	80	ug/Kg	☼	03/02/15 16:12	03/07/15 01:30	1
Carbazole	<210		210	110	ug/Kg	☼	03/02/15 16:12	03/07/15 01:30	1
<b>Chrysene</b>	<b>18</b>	<b>J</b>	42	11	ug/Kg	☼	03/02/15 16:12	03/07/15 01:30	1
Dibenz(a,h)anthracene	<42		42	8.1	ug/Kg	☼	03/02/15 16:12	03/07/15 01:30	1
Dibenzofuran	<210		210	49	ug/Kg	☼	03/02/15 16:12	03/07/15 01:30	1
Diethyl phthalate	<210		210	71	ug/Kg	☼	03/02/15 16:12	03/07/15 01:30	1
Dimethyl phthalate	<210		210	55	ug/Kg	☼	03/02/15 16:12	03/07/15 01:30	1
Di-n-butyl phthalate	<210		210	64	ug/Kg	☼	03/02/15 16:12	03/07/15 01:30	1
Di-n-octyl phthalate	<210		210	69	ug/Kg	☼	03/02/15 16:12	03/07/15 01:30	1
<b>Fluoranthene</b>	<b>13</b>	<b>J</b>	42	7.8	ug/Kg	☼	03/02/15 16:12	03/07/15 01:30	1
Fluorene	<42		42	5.9	ug/Kg	☼	03/02/15 16:12	03/07/15 01:30	1
Hexachlorobenzene	<85		85	9.7	ug/Kg	☼	03/02/15 16:12	03/07/15 01:30	1
Hexachlorobutadiene	<210		210	66	ug/Kg	☼	03/02/15 16:12	03/07/15 01:30	1
Hexachlorocyclopentadiene	<850		850	240	ug/Kg	☼	03/02/15 16:12	03/07/15 01:30	1
Hexachloroethane	<210		210	64	ug/Kg	☼	03/02/15 16:12	03/07/15 01:30	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Niles and Glenview - WO 011

TestAmerica Job ID: 500-92697-1

**Client Sample ID: GM-1(0-7)-022615**

**Lab Sample ID: 500-92697-13**

Date Collected: 02/26/15 15:25

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Percent Solids: 78.5

**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>16</b>	<b>J</b>	42	11	ug/Kg	☼	03/02/15 16:12	03/07/15 01:30	1
Isophorone	<210		210	47	ug/Kg	☼	03/02/15 16:12	03/07/15 01:30	1
Naphthalene	<42		42	6.5	ug/Kg	☼	03/02/15 16:12	03/07/15 01:30	1
Nitrobenzene	<42		42	10	ug/Kg	☼	03/02/15 16:12	03/07/15 01:30	1
N-Nitrosodi-n-propylamine	<210		210	51	ug/Kg	☼	03/02/15 16:12	03/07/15 01:30	1
N-Nitrosodiphenylamine	<210		210	50	ug/Kg	☼	03/02/15 16:12	03/07/15 01:30	1
Pentachlorophenol	<850		850	670	ug/Kg	☼	03/02/15 16:12	03/07/15 01:30	1
<b>Phenanthrene</b>	<b>12</b>	<b>J</b>	42	5.9	ug/Kg	☼	03/02/15 16:12	03/07/15 01:30	1
Phenol	<210		210	93	ug/Kg	☼	03/02/15 16:12	03/07/15 01:30	1
<b>Pyrene</b>	<b>41</b>	<b>J</b>	42	8.3	ug/Kg	☼	03/02/15 16:12	03/07/15 01:30	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	36		35 - 137				03/02/15 16:12	03/07/15 01:30	1
2-Fluorobiphenyl	39		25 - 119				03/02/15 16:12	03/07/15 01:30	1
2-Fluorophenol	55		25 - 110				03/02/15 16:12	03/07/15 01:30	1
Nitrobenzene-d5	33		25 - 115				03/02/15 16:12	03/07/15 01:30	1
Phenol-d5	68		31 - 110				03/02/15 16:12	03/07/15 01:30	1
Terphenyl-d14	93		36 - 134				03/02/15 16:12	03/07/15 01:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/06/15 09:10	03/06/15 18:36	1
<b>Barium</b>	<b>0.52</b>		0.50	0.050	mg/L		03/06/15 09:10	03/06/15 18:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/15 09:10	03/06/15 18:36	1
<b>Cadmium</b>	<b>0.0026</b>	<b>J</b>	0.0050	0.0020	mg/L		03/06/15 09:10	03/06/15 18:36	1
Chromium	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:36	1
Cobalt	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:36	1
<b>Copper</b>	<b>0.055</b>		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:36	1
Iron	<0.20		0.20	0.20	mg/L		03/06/15 09:10	03/06/15 18:36	1
<b>Lead</b>	<b>0.010</b>		0.0075	0.0075	mg/L		03/06/15 09:10	03/06/15 18:36	1
<b>Manganese</b>	<b>0.20</b>		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:36	1
Nickel	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:36	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/15 09:10	03/06/15 18:36	1
Silver	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:36	1
<b>Zinc</b>	<b>0.050</b>	<b>J</b>	0.10	0.020	mg/L		03/06/15 09:10	03/06/15 18:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.035</b>	<b>J</b>	0.050	0.010	mg/L		03/06/15 09:10	03/06/15 19:26	1
<b>Barium</b>	<b>0.57</b>		0.50	0.050	mg/L		03/06/15 09:10	03/06/15 19:26	1
<b>Beryllium</b>	<b>0.0055</b>		0.0040	0.0040	mg/L		03/06/15 09:10	03/06/15 19:26	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/06/15 09:10	03/06/15 19:26	1
<b>Chromium</b>	<b>0.14</b>		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 19:26	1
<b>Cobalt</b>	<b>0.032</b>		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 19:26	1
<b>Copper</b>	<b>0.11</b>		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 19:26	1
<b>Iron</b>	<b>110</b>		0.20	0.20	mg/L		03/06/15 09:10	03/06/15 19:26	1
<b>Lead</b>	<b>0.096</b>		0.0075	0.0075	mg/L		03/06/15 09:10	03/07/15 22:05	1
<b>Manganese</b>	<b>0.45</b>		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 19:26	1
<b>Nickel</b>	<b>0.13</b>		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 19:26	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/15 09:10	03/06/15 19:26	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Niles and Glenview - WO 011

TestAmerica Job ID: 500-92697-1

**Client Sample ID: GM-1(0-7)-022615**

**Lab Sample ID: 500-92697-13**

Date Collected: 02/26/15 15:25

Matrix: Solid

Date Received: 02/27/15 12:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 19:26	1
Zinc	0.28		0.10	0.020	mg/L		03/06/15 09:10	03/07/15 22:05	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.2	J B	1.3	0.26	mg/Kg	⊛	03/02/15 09:51	03/04/15 05:02	1
Arsenic	7.3		0.63	0.29	mg/Kg	⊛	03/02/15 09:51	03/04/15 05:02	1
Barium	79		0.63	0.11	mg/Kg	⊛	03/02/15 09:51	03/04/15 05:02	1
Beryllium	0.99		0.25	0.054	mg/Kg	⊛	03/02/15 09:51	03/04/15 05:02	1
Cadmium	<0.13		0.13	0.036	mg/Kg	⊛	03/02/15 09:51	03/04/15 05:02	1
Calcium	54000		13	4.0	mg/Kg	⊛	03/02/15 09:51	03/04/15 05:02	1
Chromium	26		0.63	0.11	mg/Kg	⊛	03/02/15 09:51	03/04/15 05:02	1
Cobalt	11		0.31	0.071	mg/Kg	⊛	03/02/15 09:51	03/04/15 05:02	1
Copper	22		0.63	0.14	mg/Kg	⊛	03/02/15 09:51	03/04/15 05:02	1
Iron	25000		13	4.8	mg/Kg	⊛	03/02/15 09:51	03/04/15 05:02	1
Lead	16		0.31	0.16	mg/Kg	⊛	03/02/15 09:51	03/04/15 05:02	1
Magnesium	27000		6.3	2.5	mg/Kg	⊛	03/02/15 09:51	03/04/15 05:02	1
Manganese	380		0.63	0.12	mg/Kg	⊛	03/02/15 09:51	03/04/15 05:02	1
Nickel	30		0.63	0.17	mg/Kg	⊛	03/02/15 09:51	03/04/15 05:02	1
Potassium	2700		31	5.1	mg/Kg	⊛	03/02/15 09:51	03/05/15 02:21	1
Selenium	0.61	J	0.63	0.31	mg/Kg	⊛	03/02/15 09:51	03/04/15 05:02	1
Silver	<0.31		0.31	0.073	mg/Kg	⊛	03/02/15 09:51	03/04/15 05:02	1
Sodium	450		63	8.3	mg/Kg	⊛	03/02/15 09:51	03/05/15 02:21	1
Thallium	1.6		0.63	0.31	mg/Kg	⊛	03/02/15 09:51	03/04/15 05:02	1
Vanadium	26		0.31	0.092	mg/Kg	⊛	03/02/15 09:51	03/05/15 02:21	1
Zinc	52		1.3	0.40	mg/Kg	⊛	03/02/15 09:51	03/04/15 05:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/06/15 12:00	03/06/15 17:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/06/15 12:00	03/06/15 16:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	43		21	7.3	ug/Kg	⊛	03/02/15 15:30	03/03/15 12:01	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.45		0.200	0.200	SU			03/03/15 13:42	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Niles and Glenview - WO 011

TestAmerica Job ID: 500-92697-1

**Client Sample ID: GM-1(7-15)-022615**

**Lab Sample ID: 500-92697-14**

**Date Collected: 02/26/15 15:30**

**Matrix: Solid**

**Date Received: 02/27/15 12:30**

**Percent Solids: 81.0**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<6.2		6.2	2.7	ug/Kg	*		03/05/15 11:14	1
Benzene	<6.2		6.2	0.85	ug/Kg	*		03/05/15 11:14	1
Bromodichloromethane	<6.2		6.2	1.1	ug/Kg	*		03/05/15 11:14	1
Bromoform	<6.2		6.2	1.4	ug/Kg	*		03/05/15 11:14	1
Bromomethane	<6.2		6.2	1.9	ug/Kg	*		03/05/15 11:14	1
Carbon disulfide	<6.2		6.2	0.92	ug/Kg	*		03/05/15 11:14	1
Carbon tetrachloride	<6.2		6.2	1.1	ug/Kg	*		03/05/15 11:14	1
Chlorobenzene	<6.2		6.2	0.63	ug/Kg	*		03/05/15 11:14	1
Chloroethane	<6.2		6.2	1.7	ug/Kg	*		03/05/15 11:14	1
Chloroform	<6.2		6.2	0.71	ug/Kg	*		03/05/15 11:14	1
Chloromethane	<6.2		6.2	1.3	ug/Kg	*		03/05/15 11:14	1
cis-1,2-Dichloroethene	<6.2		6.2	0.87	ug/Kg	*		03/05/15 11:14	1
cis-1,3-Dichloropropene	<6.2		6.2	0.81	ug/Kg	*		03/05/15 11:14	1
Dibromochloromethane	<6.2		6.2	1.1	ug/Kg	*		03/05/15 11:14	1
1,1-Dichloroethane	<6.2		6.2	0.98	ug/Kg	*		03/05/15 11:14	1
1,2-Dichloroethane	<6.2		6.2	0.91	ug/Kg	*		03/05/15 11:14	1
1,1,1-Dichloroethene	<6.2		6.2	1.0	ug/Kg	*		03/05/15 11:14	1
1,2-Dichloropropane	<6.2		6.2	0.94	ug/Kg	*		03/05/15 11:14	1
1,3-Dichloropropene, Total	<6.2		6.2	0.81	ug/Kg	*		03/05/15 11:14	1
Ethylbenzene	<6.2		6.2	1.2	ug/Kg	*		03/05/15 11:14	1
2-Hexanone	<6.2		6.2	1.8	ug/Kg	*		03/05/15 11:14	1
Methylene Chloride	<6.2		6.2	1.7	ug/Kg	*		03/05/15 11:14	1
Methyl Ethyl Ketone	<6.2		6.2	2.2	ug/Kg	*		03/05/15 11:14	1
methyl isobutyl ketone	<6.2		6.2	1.6	ug/Kg	*		03/05/15 11:14	1
Methyl tert-butyl ether	<6.2		6.2	1.0	ug/Kg	*		03/05/15 11:14	1
Styrene	<6.2		6.2	0.81	ug/Kg	*		03/05/15 11:14	1
1,1,1,2-Tetrachloroethane	<6.2		6.2	1.2	ug/Kg	*		03/05/15 11:14	1
Tetrachloroethene	<6.2		6.2	0.94	ug/Kg	*		03/05/15 11:14	1
Toluene	<6.2		6.2	0.86	ug/Kg	*		03/05/15 11:14	1
trans-1,2-Dichloroethene	<6.2		6.2	0.85	ug/Kg	*		03/05/15 11:14	1
trans-1,3-Dichloropropene	<6.2		6.2	1.1	ug/Kg	*		03/05/15 11:14	1
1,1,1-Trichloroethane	<6.2		6.2	0.92	ug/Kg	*		03/05/15 11:14	1
1,1,2-Trichloroethane	<6.2		6.2	0.84	ug/Kg	*		03/05/15 11:14	1
Trichloroethene	<6.2		6.2	1.0	ug/Kg	*		03/05/15 11:14	1
Vinyl chloride	<6.2		6.2	1.3	ug/Kg	*		03/05/15 11:14	1
Xylenes, Total	<12		12	0.56	ug/Kg	*		03/05/15 11:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 122		03/05/15 11:14	1
Dibromofluoromethane	90		75 - 120		03/05/15 11:14	1
1,2-Dichloroethane-d4 (Surr)	81		70 - 134		03/05/15 11:14	1
Toluene-d8 (Surr)	97		75 - 122		03/05/15 11:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<200		200	43	ug/Kg	*	03/02/15 16:12	03/10/15 14:44	1
1,2-Dichlorobenzene	<200		200	48	ug/Kg	*	03/02/15 16:12	03/10/15 14:44	1
1,3-Dichlorobenzene	<200		200	45	ug/Kg	*	03/02/15 16:12	03/10/15 14:44	1
1,4-Dichlorobenzene	<200		200	51	ug/Kg	*	03/02/15 16:12	03/10/15 14:44	1
2,2'-oxybis[1-chloropropane]	<200		200	46	ug/Kg	*	03/02/15 16:12	03/10/15 14:44	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Niles and Glenview - WO 011

TestAmerica Job ID: 500-92697-1

**Client Sample ID: GM-1(7-15)-022615**

**Lab Sample ID: 500-92697-14**

**Date Collected: 02/26/15 15:30**

**Matrix: Solid**

**Date Received: 02/27/15 12:30**

**Percent Solids: 81.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<400		400	91	ug/Kg	☼	03/02/15 16:12	03/10/15 14:44	1
2,4,6-Trichlorophenol	<400		400	140	ug/Kg	☼	03/02/15 16:12	03/10/15 14:44	1
2,4-Dichlorophenol	<400		400	95	ug/Kg	☼	03/02/15 16:12	03/10/15 14:44	1
2,4-Dimethylphenol	<400		400	150	ug/Kg	☼	03/02/15 16:12	03/10/15 14:44	1
2,4-Dinitrophenol	<800	*	800	700	ug/Kg	☼	03/02/15 16:12	03/10/15 14:44	1
2,4-Dinitrotoluene	<200		200	63	ug/Kg	☼	03/02/15 16:12	03/10/15 14:44	1
2,6-Dinitrotoluene	<200		200	78	ug/Kg	☼	03/02/15 16:12	03/10/15 14:44	1
2-Chloronaphthalene	<200		200	44	ug/Kg	☼	03/02/15 16:12	03/10/15 14:44	1
2-Chlorophenol	<200		200	68	ug/Kg	☼	03/02/15 16:12	03/10/15 14:44	1
2-Methylnaphthalene	<40		40	7.3	ug/Kg	☼	03/02/15 16:12	03/10/15 14:44	1
2-Methylphenol	<200		200	64	ug/Kg	☼	03/02/15 16:12	03/10/15 14:44	1
2-Nitroaniline	<200		200	54	ug/Kg	☼	03/02/15 16:12	03/10/15 14:44	1
2-Nitrophenol	<400		400	94	ug/Kg	☼	03/02/15 16:12	03/10/15 14:44	1
3 & 4 Methylphenol	<200		200	67	ug/Kg	☼	03/02/15 16:12	03/10/15 14:44	1
3,3'-Dichlorobenzidine	<200		200	56	ug/Kg	☼	03/02/15 16:12	03/10/15 14:44	1
3-Nitroaniline	<400		400	120	ug/Kg	☼	03/02/15 16:12	03/10/15 14:44	1
4,6-Dinitro-2-methylphenol	<400	*	400	320	ug/Kg	☼	03/02/15 16:12	03/10/15 14:44	1
4-Bromophenyl phenyl ether	<200		200	53	ug/Kg	☼	03/02/15 16:12	03/10/15 14:44	1
4-Chloro-3-methylphenol	<400		400	140	ug/Kg	☼	03/02/15 16:12	03/10/15 14:44	1
4-Chloroaniline	<800		800	190	ug/Kg	☼	03/02/15 16:12	03/10/15 14:44	1
4-Chlorophenyl phenyl ether	<200		200	47	ug/Kg	☼	03/02/15 16:12	03/10/15 14:44	1
4-Nitroaniline	<400		400	170	ug/Kg	☼	03/02/15 16:12	03/10/15 14:44	1
4-Nitrophenol	<800		800	380	ug/Kg	☼	03/02/15 16:12	03/10/15 14:44	1
Acenaphthene	<40		40	7.2	ug/Kg	☼	03/02/15 16:12	03/10/15 14:44	1
Acenaphthylene	<40		40	5.3	ug/Kg	☼	03/02/15 16:12	03/10/15 14:44	1
Anthracene	<40		40	6.7	ug/Kg	☼	03/02/15 16:12	03/10/15 14:44	1
Benzo[a]anthracene	<40		40	5.4	ug/Kg	☼	03/02/15 16:12	03/10/15 14:44	1
Benzo[a]pyrene	<40		40	7.7	ug/Kg	☼	03/02/15 16:12	03/10/15 14:44	1
Benzo[b]fluoranthene	<40		40	8.6	ug/Kg	☼	03/02/15 16:12	03/10/15 14:44	1
<b>Benzo[g,h,i]perylene</b>	<b>27</b>	<b>J</b>	40	13	ug/Kg	☼	03/02/15 16:12	03/10/15 14:44	1
Benzo[k]fluoranthene	<40		40	12	ug/Kg	☼	03/02/15 16:12	03/10/15 14:44	1
Bis(2-chloroethoxy)methane	<200		200	41	ug/Kg	☼	03/02/15 16:12	03/10/15 14:44	1
Bis(2-chloroethyl)ether	<200		200	60	ug/Kg	☼	03/02/15 16:12	03/10/15 14:44	1
Bis(2-ethylhexyl) phthalate	<200		200	73	ug/Kg	☼	03/02/15 16:12	03/10/15 14:44	1
Butyl benzyl phthalate	<200		200	76	ug/Kg	☼	03/02/15 16:12	03/10/15 14:44	1
Carbazole	<200		200	100	ug/Kg	☼	03/02/15 16:12	03/10/15 14:44	1
<b>Chrysene</b>	<b>16</b>	<b>J</b>	40	11	ug/Kg	☼	03/02/15 16:12	03/10/15 14:44	1
Dibenz(a,h)anthracene	<40		40	7.7	ug/Kg	☼	03/02/15 16:12	03/10/15 14:44	1
Dibenzofuran	<200		200	47	ug/Kg	☼	03/02/15 16:12	03/10/15 14:44	1
Diethyl phthalate	<200		200	68	ug/Kg	☼	03/02/15 16:12	03/10/15 14:44	1
Dimethyl phthalate	<200		200	52	ug/Kg	☼	03/02/15 16:12	03/10/15 14:44	1
Di-n-butyl phthalate	<200		200	61	ug/Kg	☼	03/02/15 16:12	03/10/15 14:44	1
<b>Di-n-octyl phthalate</b>	<b>100</b>	<b>J</b>	200	65	ug/Kg	☼	03/02/15 16:12	03/10/15 14:44	1
Fluoranthene	<40		40	7.4	ug/Kg	☼	03/02/15 16:12	03/10/15 14:44	1
Fluorene	<40		40	5.6	ug/Kg	☼	03/02/15 16:12	03/10/15 14:44	1
Hexachlorobenzene	<80		80	9.3	ug/Kg	☼	03/02/15 16:12	03/10/15 14:44	1
Hexachlorobutadiene	<200		200	63	ug/Kg	☼	03/02/15 16:12	03/10/15 14:44	1
Hexachlorocyclopentadiene	<800		800	230	ug/Kg	☼	03/02/15 16:12	03/10/15 14:44	1
Hexachloroethane	<200		200	61	ug/Kg	☼	03/02/15 16:12	03/10/15 14:44	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Niles and Glenview - WO 011

TestAmerica Job ID: 500-92697-1

**Client Sample ID: GM-1(7-15)-022615**

**Lab Sample ID: 500-92697-14**

Date Collected: 02/26/15 15:30

Matrix: Solid

Date Received: 02/27/15 12:30

Percent Solids: 81.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<40		40	10	ug/Kg	☼	03/02/15 16:12	03/10/15 14:44	1
Isophorone	<200		200	45	ug/Kg	☼	03/02/15 16:12	03/10/15 14:44	1
Naphthalene	<40		40	6.1	ug/Kg	☼	03/02/15 16:12	03/10/15 14:44	1
Nitrobenzene	<40		40	10	ug/Kg	☼	03/02/15 16:12	03/10/15 14:44	1
N-Nitrosodi-n-propylamine	<200		200	49	ug/Kg	☼	03/02/15 16:12	03/10/15 14:44	1
N-Nitrosodiphenylamine	<200		200	47	ug/Kg	☼	03/02/15 16:12	03/10/15 14:44	1
Pentachlorophenol	<800		800	640	ug/Kg	☼	03/02/15 16:12	03/10/15 14:44	1
<b>Phenanthrene</b>	<b>28</b>	<b>J</b>	40	5.6	ug/Kg	☼	03/02/15 16:12	03/10/15 14:44	1
Phenol	<200		200	89	ug/Kg	☼	03/02/15 16:12	03/10/15 14:44	1
<b>Pyrene</b>	<b>18</b>	<b>J</b>	40	7.9	ug/Kg	☼	03/02/15 16:12	03/10/15 14:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	42		35 - 137				03/02/15 16:12	03/10/15 14:44	1
2-Fluorobiphenyl	52		25 - 119				03/02/15 16:12	03/10/15 14:44	1
2-Fluorophenol	45		25 - 110				03/02/15 16:12	03/10/15 14:44	1
Nitrobenzene-d5	43		25 - 115				03/02/15 16:12	03/10/15 14:44	1
Phenol-d5	54		31 - 110				03/02/15 16:12	03/10/15 14:44	1
Terphenyl-d14	71		36 - 134				03/02/15 16:12	03/10/15 14:44	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		03/06/15 09:10	03/06/15 18:41	1
<b>Barium</b>	<b>0.64</b>		0.50	0.050	mg/L		03/06/15 09:10	03/06/15 18:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/15 09:10	03/06/15 18:41	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/06/15 09:10	03/06/15 18:41	1
Chromium	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:41	1
Cobalt	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:41	1
<b>Copper</b>	<b>0.025</b>		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:41	1
Iron	<0.20		0.20	0.20	mg/L		03/06/15 09:10	03/06/15 18:41	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/06/15 09:10	03/06/15 18:41	1
<b>Manganese</b>	<b>1.1</b>		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:41	1
Nickel	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:41	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/15 09:10	03/06/15 18:41	1
Silver	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:41	1
<b>Zinc</b>	<b>0.034</b>	<b>J</b>	0.10	0.020	mg/L		03/06/15 09:10	03/06/15 18:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/06/15 09:10	03/06/15 19:31	1
<b>Barium</b>	<b>0.11</b>	<b>J</b>	0.50	0.050	mg/L		03/06/15 09:10	03/06/15 19:31	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/15 09:10	03/06/15 19:31	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/06/15 09:10	03/06/15 19:31	1
<b>Chromium</b>	<b>0.019</b>	<b>J</b>	0.025	0.010	mg/L		03/06/15 09:10	03/06/15 19:31	1
Cobalt	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 19:31	1
<b>Copper</b>	<b>0.021</b>	<b>J</b>	0.025	0.010	mg/L		03/06/15 09:10	03/06/15 19:31	1
<b>Iron</b>	<b>7.3</b>		0.20	0.20	mg/L		03/06/15 09:10	03/06/15 19:31	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/06/15 09:10	03/06/15 19:31	1
<b>Manganese</b>	<b>0.065</b>		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 19:31	1
Nickel	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 19:31	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/15 09:10	03/06/15 19:31	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Niles and Glenview - WO 011

TestAmerica Job ID: 500-92697-1

**Client Sample ID: GM-1(7-15)-022615**

**Lab Sample ID: 500-92697-14**

Date Collected: 02/26/15 15:30

Matrix: Solid

Date Received: 02/27/15 12:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 19:31	1
Zinc	0.051	J	0.10	0.020	mg/L		03/06/15 09:10	03/07/15 22:12	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.96	J B	1.2	0.25	mg/Kg	⊛	03/02/15 09:51	03/04/15 05:08	1
Arsenic	5.1		0.60	0.28	mg/Kg	⊛	03/02/15 09:51	03/04/15 05:08	1
Barium	65		0.60	0.11	mg/Kg	⊛	03/02/15 09:51	03/04/15 05:08	1
Beryllium	0.96		0.24	0.052	mg/Kg	⊛	03/02/15 09:51	03/04/15 05:08	1
Cadmium	<0.12		0.12	0.035	mg/Kg	⊛	03/02/15 09:51	03/04/15 05:08	1
Calcium	44000		12	3.8	mg/Kg	⊛	03/02/15 09:51	03/04/15 05:08	1
Chromium	30		0.60	0.10	mg/Kg	⊛	03/02/15 09:51	03/04/15 05:08	1
Cobalt	15		0.30	0.068	mg/Kg	⊛	03/02/15 09:51	03/04/15 05:08	1
Copper	19		0.60	0.13	mg/Kg	⊛	03/02/15 09:51	03/04/15 05:08	1
Iron	25000		12	4.6	mg/Kg	⊛	03/02/15 09:51	03/04/15 05:08	1
Lead	8.5		0.30	0.15	mg/Kg	⊛	03/02/15 09:51	03/04/15 05:08	1
Magnesium	20000		6.0	2.4	mg/Kg	⊛	03/02/15 09:51	03/04/15 05:08	1
Manganese	360		0.60	0.12	mg/Kg	⊛	03/02/15 09:51	03/04/15 05:08	1
Nickel	36		0.60	0.16	mg/Kg	⊛	03/02/15 09:51	03/04/15 05:08	1
Potassium	3500		30	4.9	mg/Kg	⊛	03/02/15 09:51	03/05/15 02:26	1
Selenium	0.73		0.60	0.30	mg/Kg	⊛	03/02/15 09:51	03/04/15 05:08	1
Silver	0.073	J	0.30	0.070	mg/Kg	⊛	03/02/15 09:51	03/04/15 05:08	1
Sodium	210		60	7.9	mg/Kg	⊛	03/02/15 09:51	03/05/15 02:26	1
Thallium	1.5		0.60	0.29	mg/Kg	⊛	03/02/15 09:51	03/04/15 05:08	1
Vanadium	23		0.30	0.087	mg/Kg	⊛	03/02/15 09:51	03/05/15 02:26	1
Zinc	52		1.2	0.38	mg/Kg	⊛	03/02/15 09:51	03/04/15 05:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/06/15 12:00	03/06/15 17:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/06/15 12:00	03/06/15 16:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	22		20	6.9	ug/Kg	⊛	03/02/15 15:30	03/03/15 12:03	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.10		0.200	0.200	SU			03/03/15 13:45	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Niles and Glenview - WO 011

TestAmerica Job ID: 500-92697-1

## Qualifiers

### GC/MS VOA

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

### GC/MS Semi VOA

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

### Metals

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

## Glossary

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

# Certification Summary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Niles and Glenview - WO 011

TestAmerica Job ID: 500-92697-1

## Laboratory: TestAmerica Chicago

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

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

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

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

\* Certification renewal pending - certification considered valid.



# TestAmerica

THE LEADER IN ENVIRONMENTAL

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



500-92697 COC

Report To (optional) S. Babusukumar  
Contact: Weston Solutions  
Company: Weston Solutions  
Address: 300 Plaza Circle #202  
Address: Mundelein, IL 60060  
Phone: 224-864-7250  
Fax:  
E-Mail: Babu.Babusukumar@westonsolutions.com

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

## Chain of Custody Record

Lab Job #: 500-92697

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

Page 1 of 2

Temperature °C of Cooler: 3.1

Client		Client Project #		Preservative							Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		Parameter								
Project Location/State		Lab PM										
Sampler												
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix						Comments
			Date	Time								
1		MG-2(0-1)-022615	2-26-15	10:00	2	SO	X	X	X	X	X	
2		MG-1(0-7)-022615		10:25								
<del>MG-1(0-7)-022615</del>												
3		MG-1(7-15)-022615		10:30								
4		MG-1(7-15)-022615 D		10:30								
5		AB-1(0-1)-022615		10:45								
6		CB1-1(0-1)-022615		11:10								
7		GD-1(0-1)-022615		11:25								
8		MS-1(0-1)-022615		12:00								
9		GD-2(0-7)-022615	2-26-15	13:40	2	SO	X	X	X	X	X	

Turnaround Time Required (Business Days)

\_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days \_\_\_ 10 Days \_\_\_ 15 Days std 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>Shirley Ann</u> Company <u>Weston</u> Date <u>2-27-15</u> Time <u>1045</u>	Received By <u>Shirley Ann</u> Company <u>TA</u> Date <u>2/27/15</u> Time <u>1045</u>	Lab Courier <u>TA</u>
Relinquished By <u>Shirley Ann</u> Company <u>TA</u> Date <u>2/27/15</u> Time <u>1230</u>	Received By <u>Shirley Ann</u> Company <u>TA-CHE</u> Date <u>2/27/15</u> Time <u>1230</u>	Shipped _____
Relinquished By _____ Company _____ Date _____ Time _____	Received By _____ Company _____ Date _____ Time _____	Hand Delivered _____

Matrix Key

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

Client Comments

Lab Comments:



Report To: (optional) S. Babusukumar  
 Contact: S. Babusukumar  
 Company: Weston Solutions, Inc.  
 Address: 300 Plaza Circle #202  
 Address: Mundelein, IL 60060  
 Phone: 224-804-7250  
 Fax: \_\_\_\_\_  
 E-Mail: S.Babusukumar@westonsolutions.com

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

## Chain of Custody Record

Lab Job #: 500-92697  
 Chain of Custody Number: \_\_\_\_\_  
 Page 2 of 2  
 Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter					Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		Parameter		Parameter						
Project Location/State		Lab PM		Parameter		Parameter						
Sampler		Lab PM		Parameter		Parameter						
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCS	SVOCS	metals	TCLP/ SPLP metals	PH	Comments
10		GD-2(7-15)-022615	2/26/15	13:45	2	SO	X	X	X	X	X	
11		TU-1(0-7)-022615		14:40	1							
12		TU-1(7-15)-022615		14:45	1							
13		GM-1(0-7)-022615		15:25	1							
14		GM-1(7-15)-022615		15:30	1							
15		CB2-1(0-7)-022615		16:10	1							
16		CB2-1(7-15)-022615		16:15	1							
17		CB2-1(7-15)-022615	2/26/15	16:15	2	SO	X	X	X	X	X	
* last item *												

Turnaround Time Required (Business Days)

1 Day  2 Days  5 Days  7 Days  10 Days  15 Days  std 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>David Allen</u> Company: <u>Weston</u> Date: <u>2/27/15</u> Time: <u>10:45</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>2/27/15</u> Time: <u>10:45</u>
Relinquished By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>2/27/15</u> Time: <u>12:30</u>	Received By: <u>[Signature]</u> Company: <u>TA-INT</u> Date: <u>2/27/15</u> Time: <u>12:30</u>

Lab Courier: TA  
 Shipped: \_\_\_\_\_  
 Hand Delivered: \_\_\_\_\_

Matrix Key

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

Client Comments

\_\_\_\_\_

Lab Comments:

\_\_\_\_\_



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

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

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

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

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

### I. Source Location Information

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

Project Name: FAP 374: IL 21 at IL 58 and Greenwood Ave Office Phone Number, if available: \_\_\_\_\_

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

9555 Milwaukee Avenue (ISGS Site No. 2825-11)

City: Niles State: IL Zip Code: \_\_\_\_\_

County: Cook Township: \_\_\_\_\_

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

Latitude: 42.054470413 Longitude: -87.837533220  
(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 374: IL 21 at IL 58 and Greenwood Ave

Latitude: 42.054470413 Longitude: -87.837533220

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 TU-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2825-11. SEE FIGURE 3-2 AND TABLE 4-1 OF THE PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

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

TEST AMERICA ANALYTICAL REPORT - JOB ID: 500-92697-1.  
ALSO SEE FIGURE 4-2 OF THE REVISED PRELIMINARY SITE INVESTIGATION REPORT.

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

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

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

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

Michael A. Castillo, P.G.  
 Printed Name:

Mich Castillo

April 15, 2015

Licensed Professional Engineer or  
 Licensed Professional Geologist Signature:

Date:



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

**Summary Table of ISGS Site No. 2825-11**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 374: Illinois Route 21 at Illinois Route 58 and Greenwood Avenue**  
**Niles and Glenview, Cook County, Illinois**

Field Sample ID	TU-1(0-7)-022615	TU-1(7-15)-022615	Soil Reference Concentrations <sup>A</sup>
Sample Date	2/26/2015	2/26/2015	
Location ID	TU-1	TU-1	
Depth	0 - 7	7 - 15	
ISGS Site No.	2825-11	2825-11	
Parameter			
Laboratory pH	8.6	8.16	<6.25,>9.0
<b>VOCs (ug/kg)</b>			
2-Hexanone	5.3 J	ND	---
Acetone	ND	11	25000
<b>SVOCs (ug/kg)</b>			
2-Methylnaphthalene	ND	11 J	---
Benzo(g,h,i)perylene	ND	21 J	---
Chrysene	ND	23 J	88000
Phenanthrene	ND	46	---
Pyrene	ND	17 J	2300000
<b>Total Metals (mg/kg)</b>			
Arsenic, Total	7 J-	2.7 J-	11.3 / 13
Barium, Total	80 J	49 J	1500
Beryllium, Total	0.88	0.87	22
Calcium, Total	40000 J	36000 J	---
Chromium, Total	23	27	21
Cobalt, Total	15 J	11 J	20
Copper, Total	19 J	36 J	2900
Iron, Total	23000 J	22000 J	15000 / 15900
Lead, Total	11 J	9.4 J	107
Magnesium, Total	19000 J	21000 J	325000
Manganese, Total	530 J	340 J	630 / 636
Mercury, Total	0.026 J	0.012 J	0.89
Nickel, Total	36	36	100
Potassium, Total	2900 J+	3300 J+	---
Selenium, Total	0.51 J	0.91	1.3
Silver, Total	ND	0.15 J	4.4
Sodium, Total	810	210	---
Thallium, Total	1.6	1.2	2.6
Vanadium, Total	24	20	550
Zinc, Total	46 J	47 J	5100
<b>TCLP Metals (mg/l)</b>			
Barium, TCLP	0.48 J	0.71	2
Cadmium, TCLP	0.0023 J	0.002 J	0.005
Copper, TCLP	0.02 J	0.028	0.65
Iron, TCLP	ND	0.22	5
Manganese, TCLP	0.48	1.8	0.15
Zinc, TCLP	0.04 J	0.038 J	5
<b>SPLP Metals (mg/l)</b>			
Arsenic, SPLP	0.041 J	0.015 J	0.05
Barium, SPLP	0.49 J	0.32 J	2
Beryllium, SPLP	0.0056	ND	0.004
Chromium, SPLP	0.14	0.082	0.1
Cobalt, SPLP	0.037	0.028	1
Copper, SPLP	0.16	0.07	0.65
Iron, SPLP	110 J+	56 J+	5
Lead, SPLP	0.055	0.036	0.0075
Manganese, SPLP	0.57	0.52	0.15
Nickel, SPLP	0.15	0.085	0.1
Zinc, SPLP	0.29	0.15	5
Percent Solids	82	81	

**Summary Table of ISGS Site No. 2825-11**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 374: Illinois Route 21 at Illinois Route 58 and Greenwood Avenue**  
**Niles and Glenview, Cook 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.

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: 500-92697-1  
Client Project/Site: IDOT - Niles and Glenview - WO 011

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

Attn: Mr. S. Babusukumar



Authorized for release by:  
3/10/2015 4:21:48 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 - Niles and Glenview - WO 011

TestAmerica Job ID: 500-92697-1

**Client Sample ID: TV-1(0-7)-022615**

**Lab Sample ID: 500-92697-11**

**Date Collected: 02/26/15 14:40**

**Matrix: Solid**

**Date Received: 02/27/15 12:30**

**Percent Solids: 81.9**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<6.1		6.1	2.6	ug/Kg	☼		03/04/15 21:49	1
Benzene	<6.1		6.1	0.84	ug/Kg	☼		03/04/15 21:49	1
Bromodichloromethane	<6.1		6.1	1.1	ug/Kg	☼		03/04/15 21:49	1
Bromoform	<6.1		6.1	1.4	ug/Kg	☼		03/04/15 21:49	1
Bromomethane	<6.1		6.1	1.8	ug/Kg	☼		03/04/15 21:49	1
Carbon disulfide	<6.1		6.1	0.91	ug/Kg	☼		03/04/15 21:49	1
Carbon tetrachloride	<6.1		6.1	1.1	ug/Kg	☼		03/04/15 21:49	1
Chlorobenzene	<6.1		6.1	0.62	ug/Kg	☼		03/04/15 21:49	1
Chloroethane	<6.1		6.1	1.7	ug/Kg	☼		03/04/15 21:49	1
Chloroform	<6.1		6.1	0.70	ug/Kg	☼		03/04/15 21:49	1
Chloromethane	<6.1		6.1	1.3	ug/Kg	☼		03/04/15 21:49	1
cis-1,2-Dichloroethene	<6.1		6.1	0.86	ug/Kg	☼		03/04/15 21:49	1
cis-1,3-Dichloropropene	<6.1		6.1	0.80	ug/Kg	☼		03/04/15 21:49	1
Dibromochloromethane	<6.1		6.1	1.1	ug/Kg	☼		03/04/15 21:49	1
1,1-Dichloroethane	<6.1		6.1	0.97	ug/Kg	☼		03/04/15 21:49	1
1,2-Dichloroethane	<6.1		6.1	0.91	ug/Kg	☼		03/04/15 21:49	1
1,1,1-Dichloroethene	<6.1		6.1	0.99	ug/Kg	☼		03/04/15 21:49	1
1,2-Dichloropropane	<6.1		6.1	0.93	ug/Kg	☼		03/04/15 21:49	1
1,3-Dichloropropene, Total	<6.1		6.1	0.80	ug/Kg	☼		03/04/15 21:49	1
Ethylbenzene	<6.1		6.1	1.2	ug/Kg	☼		03/04/15 21:49	1
<b>2-Hexanone</b>	<b>5.3</b>	<b>J</b>	6.1	1.8	ug/Kg	☼		03/04/15 21:49	1
Methylene Chloride	<6.1		6.1	1.6	ug/Kg	☼		03/04/15 21:49	1
Methyl Ethyl Ketone	<6.1		6.1	2.2	ug/Kg	☼		03/04/15 21:49	1
methyl isobutyl ketone	<6.1		6.1	1.6	ug/Kg	☼		03/04/15 21:49	1
Methyl tert-butyl ether	<6.1		6.1	1.0	ug/Kg	☼		03/04/15 21:49	1
Styrene	<6.1		6.1	0.80	ug/Kg	☼		03/04/15 21:49	1
1,1,1,2-Tetrachloroethane	<6.1		6.1	1.2	ug/Kg	☼		03/04/15 21:49	1
Tetrachloroethene	<6.1		6.1	0.93	ug/Kg	☼		03/04/15 21:49	1
Toluene	<6.1		6.1	0.86	ug/Kg	☼		03/04/15 21:49	1
trans-1,2-Dichloroethene	<6.1		6.1	0.84	ug/Kg	☼		03/04/15 21:49	1
trans-1,3-Dichloropropene	<6.1		6.1	1.1	ug/Kg	☼		03/04/15 21:49	1
1,1,1-Trichloroethane	<6.1		6.1	0.91	ug/Kg	☼		03/04/15 21:49	1
1,1,2-Trichloroethane	<6.1		6.1	0.83	ug/Kg	☼		03/04/15 21:49	1
Trichloroethene	<6.1		6.1	1.0	ug/Kg	☼		03/04/15 21:49	1
Vinyl chloride	<6.1		6.1	1.3	ug/Kg	☼		03/04/15 21:49	1
Xylenes, Total	<12		12	0.55	ug/Kg	☼		03/04/15 21:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 122		03/04/15 21:49	1
Dibromofluoromethane	92		75 - 120		03/04/15 21:49	1
1,2-Dichloroethane-d4 (Surr)	86		70 - 134		03/04/15 21:49	1
Toluene-d8 (Surr)	95		75 - 122		03/04/15 21:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<200		200	43	ug/Kg	☼	03/02/15 16:12	03/07/15 00:40	1
1,2-Dichlorobenzene	<200		200	48	ug/Kg	☼	03/02/15 16:12	03/07/15 00:40	1
1,3-Dichlorobenzene	<200		200	45	ug/Kg	☼	03/02/15 16:12	03/07/15 00:40	1
1,4-Dichlorobenzene	<200		200	51	ug/Kg	☼	03/02/15 16:12	03/07/15 00:40	1
2,2'-oxybis[1-chloropropane]	<200		200	47	ug/Kg	☼	03/02/15 16:12	03/07/15 00:40	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Niles and Glenview - WO 011

TestAmerica Job ID: 500-92697-1

**Client Sample ID: TV-1(0-7)-022615**

**Lab Sample ID: 500-92697-11**

**Date Collected: 02/26/15 14:40**

**Matrix: Solid**

**Date Received: 02/27/15 12:30**

**Percent Solids: 81.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<400		400	92	ug/Kg	☼	03/02/15 16:12	03/07/15 00:40	1
2,4,6-Trichlorophenol	<400		400	140	ug/Kg	☼	03/02/15 16:12	03/07/15 00:40	1
2,4-Dichlorophenol	<400		400	95	ug/Kg	☼	03/02/15 16:12	03/07/15 00:40	1
2,4-Dimethylphenol	<400		400	150	ug/Kg	☼	03/02/15 16:12	03/07/15 00:40	1
2,4-Dinitrophenol	<810	*	810	710	ug/Kg	☼	03/02/15 16:12	03/07/15 00:40	1
2,4-Dinitrotoluene	<200		200	64	ug/Kg	☼	03/02/15 16:12	03/07/15 00:40	1
2,6-Dinitrotoluene	<200		200	79	ug/Kg	☼	03/02/15 16:12	03/07/15 00:40	1
2-Chloronaphthalene	<200		200	44	ug/Kg	☼	03/02/15 16:12	03/07/15 00:40	1
2-Chlorophenol	<200		200	69	ug/Kg	☼	03/02/15 16:12	03/07/15 00:40	1
2-Methylnaphthalene	<40		40	7.4	ug/Kg	☼	03/02/15 16:12	03/07/15 00:40	1
2-Methylphenol	<200		200	64	ug/Kg	☼	03/02/15 16:12	03/07/15 00:40	1
2-Nitroaniline	<200		200	54	ug/Kg	☼	03/02/15 16:12	03/07/15 00:40	1
2-Nitrophenol	<400		400	95	ug/Kg	☼	03/02/15 16:12	03/07/15 00:40	1
3 & 4 Methylphenol	<200		200	67	ug/Kg	☼	03/02/15 16:12	03/07/15 00:40	1
3,3'-Dichlorobenzidine	<200		200	56	ug/Kg	☼	03/02/15 16:12	03/07/15 00:40	1
3-Nitroaniline	<400		400	120	ug/Kg	☼	03/02/15 16:12	03/07/15 00:40	1
4,6-Dinitro-2-methylphenol	<400	*	400	320	ug/Kg	☼	03/02/15 16:12	03/07/15 00:40	1
4-Bromophenyl phenyl ether	<200		200	53	ug/Kg	☼	03/02/15 16:12	03/07/15 00:40	1
4-Chloro-3-methylphenol	<400		400	140	ug/Kg	☼	03/02/15 16:12	03/07/15 00:40	1
4-Chloroaniline	<810		810	190	ug/Kg	☼	03/02/15 16:12	03/07/15 00:40	1
4-Chlorophenyl phenyl ether	<200		200	47	ug/Kg	☼	03/02/15 16:12	03/07/15 00:40	1
4-Nitroaniline	<400		400	170	ug/Kg	☼	03/02/15 16:12	03/07/15 00:40	1
4-Nitrophenol	<810		810	380	ug/Kg	☼	03/02/15 16:12	03/07/15 00:40	1
Acenaphthene	<40		40	7.2	ug/Kg	☼	03/02/15 16:12	03/07/15 00:40	1
Acenaphthylene	<40		40	5.3	ug/Kg	☼	03/02/15 16:12	03/07/15 00:40	1
Anthracene	<40		40	6.7	ug/Kg	☼	03/02/15 16:12	03/07/15 00:40	1
Benzo[a]anthracene	<40		40	5.4	ug/Kg	☼	03/02/15 16:12	03/07/15 00:40	1
Benzo[a]pyrene	<40		40	7.8	ug/Kg	☼	03/02/15 16:12	03/07/15 00:40	1
Benzo[b]fluoranthene	<40		40	8.7	ug/Kg	☼	03/02/15 16:12	03/07/15 00:40	1
Benzo[g,h,i]perylene	<40		40	13	ug/Kg	☼	03/02/15 16:12	03/07/15 00:40	1
Benzo[k]fluoranthene	<40		40	12	ug/Kg	☼	03/02/15 16:12	03/07/15 00:40	1
Bis(2-chloroethoxy)methane	<200		200	41	ug/Kg	☼	03/02/15 16:12	03/07/15 00:40	1
Bis(2-chloroethyl)ether	<200		200	60	ug/Kg	☼	03/02/15 16:12	03/07/15 00:40	1
Bis(2-ethylhexyl) phthalate	<200		200	73	ug/Kg	☼	03/02/15 16:12	03/07/15 00:40	1
Butyl benzyl phthalate	<200		200	76	ug/Kg	☼	03/02/15 16:12	03/07/15 00:40	1
Carbazole	<200		200	100	ug/Kg	☼	03/02/15 16:12	03/07/15 00:40	1
Chrysene	<40		40	11	ug/Kg	☼	03/02/15 16:12	03/07/15 00:40	1
Dibenz(a,h)anthracene	<40		40	7.8	ug/Kg	☼	03/02/15 16:12	03/07/15 00:40	1
Dibenzofuran	<200		200	47	ug/Kg	☼	03/02/15 16:12	03/07/15 00:40	1
Diethyl phthalate	<200		200	68	ug/Kg	☼	03/02/15 16:12	03/07/15 00:40	1
Dimethyl phthalate	<200		200	52	ug/Kg	☼	03/02/15 16:12	03/07/15 00:40	1
Di-n-butyl phthalate	<200		200	61	ug/Kg	☼	03/02/15 16:12	03/07/15 00:40	1
Di-n-octyl phthalate	<200		200	65	ug/Kg	☼	03/02/15 16:12	03/07/15 00:40	1
Fluoranthene	<40		40	7.4	ug/Kg	☼	03/02/15 16:12	03/07/15 00:40	1
Fluorene	<40		40	5.6	ug/Kg	☼	03/02/15 16:12	03/07/15 00:40	1
Hexachlorobenzene	<81		81	9.3	ug/Kg	☼	03/02/15 16:12	03/07/15 00:40	1
Hexachlorobutadiene	<200		200	63	ug/Kg	☼	03/02/15 16:12	03/07/15 00:40	1
Hexachlorocyclopentadiene	<810		810	230	ug/Kg	☼	03/02/15 16:12	03/07/15 00:40	1
Hexachloroethane	<200		200	61	ug/Kg	☼	03/02/15 16:12	03/07/15 00:40	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Niles and Glenview - WO 011

TestAmerica Job ID: 500-92697-1

**Client Sample ID: TV-1(0-7)-022615**

**Lab Sample ID: 500-92697-11**

**Date Collected: 02/26/15 14:40**

**Matrix: Solid**

**Date Received: 02/27/15 12:30**

**Percent Solids: 81.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<40		40	10	ug/Kg	☼	03/02/15 16:12	03/07/15 00:40	1
Isophorone	<200		200	45	ug/Kg	☼	03/02/15 16:12	03/07/15 00:40	1
Naphthalene	<40		40	6.2	ug/Kg	☼	03/02/15 16:12	03/07/15 00:40	1
Nitrobenzene	<40		40	10	ug/Kg	☼	03/02/15 16:12	03/07/15 00:40	1
N-Nitrosodi-n-propylamine	<200		200	49	ug/Kg	☼	03/02/15 16:12	03/07/15 00:40	1
N-Nitrosodiphenylamine	<200		200	47	ug/Kg	☼	03/02/15 16:12	03/07/15 00:40	1
Pentachlorophenol	<810		810	640	ug/Kg	☼	03/02/15 16:12	03/07/15 00:40	1
Phenanthrene	<40		40	5.6	ug/Kg	☼	03/02/15 16:12	03/07/15 00:40	1
Phenol	<200		200	89	ug/Kg	☼	03/02/15 16:12	03/07/15 00:40	1
Pyrene	<40		40	8.0	ug/Kg	☼	03/02/15 16:12	03/07/15 00:40	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	41		35 - 137				03/02/15 16:12	03/07/15 00:40	1
2-Fluorobiphenyl	43		25 - 119				03/02/15 16:12	03/07/15 00:40	1
2-Fluorophenol	63		25 - 110				03/02/15 16:12	03/07/15 00:40	1
Nitrobenzene-d5	41		25 - 115				03/02/15 16:12	03/07/15 00:40	1
Phenol-d5	63		31 - 110				03/02/15 16:12	03/07/15 00:40	1
Terphenyl-d14	115		36 - 134				03/02/15 16:12	03/07/15 00:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/06/15 09:10	03/06/15 18:16	1
<b>Barium</b>	<b>0.48</b>	<b>J</b>	0.50	0.050	mg/L		03/06/15 09:10	03/06/15 18:16	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/15 09:10	03/06/15 18:16	1
<b>Cadmium</b>	<b>0.0023</b>	<b>J</b>	0.0050	0.0020	mg/L		03/06/15 09:10	03/06/15 18:16	1
Chromium	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:16	1
Cobalt	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:16	1
<b>Copper</b>	<b>0.020</b>	<b>J</b>	0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:16	1
Iron	<0.20		0.20	0.20	mg/L		03/06/15 09:10	03/06/15 18:16	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/06/15 09:10	03/06/15 18:16	1
<b>Manganese</b>	<b>0.48</b>		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:16	1
Nickel	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:16	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/15 09:10	03/06/15 18:16	1
Silver	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:16	1
<b>Zinc</b>	<b>0.040</b>	<b>J</b>	0.10	0.020	mg/L		03/06/15 09:10	03/06/15 18:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.041</b>	<b>J</b>	0.050	0.010	mg/L		03/06/15 09:10	03/06/15 19:07	1
<b>Barium</b>	<b>0.49</b>	<b>J</b>	0.50	0.050	mg/L		03/06/15 09:10	03/06/15 19:07	1
<b>Beryllium</b>	<b>0.0056</b>		0.0040	0.0040	mg/L		03/06/15 09:10	03/06/15 19:07	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/06/15 09:10	03/06/15 19:07	1
<b>Chromium</b>	<b>0.14</b>		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 19:07	1
<b>Cobalt</b>	<b>0.037</b>		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 19:07	1
<b>Copper</b>	<b>0.16</b>		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 19:07	1
<b>Iron</b>	<b>110</b>		0.20	0.20	mg/L		03/06/15 09:10	03/06/15 19:07	1
<b>Lead</b>	<b>0.055</b>		0.0075	0.0075	mg/L		03/06/15 09:10	03/07/15 21:53	1
<b>Manganese</b>	<b>0.57</b>		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 19:07	1
<b>Nickel</b>	<b>0.15</b>		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 19:07	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/15 09:10	03/06/15 19:07	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - Niles and Glenview - WO 011

TestAmerica Job ID: 500-92697-1

**Client Sample ID: TV-1(0-7)-022615**

**Lab Sample ID: 500-92697-11**

Date Collected: 02/26/15 14:40

Matrix: Solid

Date Received: 02/27/15 12:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 19:07	1
Zinc	0.29		0.10	0.020	mg/L		03/06/15 09:10	03/06/15 19:07	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.94	J B	1.1	0.24	mg/Kg	☼	03/02/15 09:51	03/04/15 04:49	1
Arsenic	7.0		0.57	0.26	mg/Kg	☼	03/02/15 09:51	03/04/15 04:49	1
Barium	80		0.57	0.10	mg/Kg	☼	03/02/15 09:51	03/04/15 04:49	1
Beryllium	0.88		0.23	0.050	mg/Kg	☼	03/02/15 09:51	03/04/15 04:49	1
Cadmium	<0.11		0.11	0.033	mg/Kg	☼	03/02/15 09:51	03/04/15 04:49	1
Calcium	40000		11	3.7	mg/Kg	☼	03/02/15 09:51	03/04/15 04:49	1
Chromium	23		0.57	0.098	mg/Kg	☼	03/02/15 09:51	03/04/15 04:49	1
Cobalt	15		0.29	0.065	mg/Kg	☼	03/02/15 09:51	03/04/15 04:49	1
Copper	19		0.57	0.12	mg/Kg	☼	03/02/15 09:51	03/04/15 04:49	1
Iron	23000		11	4.4	mg/Kg	☼	03/02/15 09:51	03/04/15 04:49	1
Lead	11		0.29	0.14	mg/Kg	☼	03/02/15 09:51	03/04/15 04:49	1
Magnesium	19000		5.7	2.3	mg/Kg	☼	03/02/15 09:51	03/04/15 04:49	1
Manganese	530		0.57	0.11	mg/Kg	☼	03/02/15 09:51	03/04/15 04:49	1
Nickel	36		0.57	0.16	mg/Kg	☼	03/02/15 09:51	03/04/15 04:49	1
Potassium	2900		29	4.7	mg/Kg	☼	03/02/15 09:51	03/05/15 02:11	1
Selenium	0.51	J	0.57	0.28	mg/Kg	☼	03/02/15 09:51	03/04/15 04:49	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	03/02/15 09:51	03/04/15 04:49	1
Sodium	810		57	7.6	mg/Kg	☼	03/02/15 09:51	03/05/15 02:11	1
Thallium	1.6		0.57	0.28	mg/Kg	☼	03/02/15 09:51	03/04/15 04:49	1
Vanadium	24		0.29	0.084	mg/Kg	☼	03/02/15 09:51	03/05/15 02:11	1
Zinc	46		1.1	0.36	mg/Kg	☼	03/02/15 09:51	03/04/15 04:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/06/15 12:00	03/06/15 17:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/06/15 12:00	03/06/15 16:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	26		19	6.5	ug/Kg	☼	03/02/15 15:30	03/03/15 11:53	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.60		0.200	0.200	SU			03/03/15 13:34	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Niles and Glenview - WO 011

TestAmerica Job ID: 500-92697-1

**Client Sample ID: TV-1(7-15)-022615**

**Lab Sample ID: 500-92697-12**

**Date Collected: 02/26/15 14:45**

**Matrix: Solid**

**Date Received: 02/27/15 12:30**

**Percent Solids: 80.9**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	11		6.2	2.7	ug/Kg	☼		03/04/15 22:13	1
Benzene	<6.2		6.2	0.85	ug/Kg	☼		03/04/15 22:13	1
Bromodichloromethane	<6.2		6.2	1.1	ug/Kg	☼		03/04/15 22:13	1
Bromoform	<6.2		6.2	1.4	ug/Kg	☼		03/04/15 22:13	1
Bromomethane	<6.2		6.2	1.9	ug/Kg	☼		03/04/15 22:13	1
Carbon disulfide	<6.2		6.2	0.92	ug/Kg	☼		03/04/15 22:13	1
Carbon tetrachloride	<6.2		6.2	1.1	ug/Kg	☼		03/04/15 22:13	1
Chlorobenzene	<6.2		6.2	0.63	ug/Kg	☼		03/04/15 22:13	1
Chloroethane	<6.2		6.2	1.7	ug/Kg	☼		03/04/15 22:13	1
Chloroform	<6.2		6.2	0.71	ug/Kg	☼		03/04/15 22:13	1
Chloromethane	<6.2		6.2	1.3	ug/Kg	☼		03/04/15 22:13	1
cis-1,2-Dichloroethene	<6.2		6.2	0.87	ug/Kg	☼		03/04/15 22:13	1
cis-1,3-Dichloropropene	<6.2		6.2	0.81	ug/Kg	☼		03/04/15 22:13	1
Dibromochloromethane	<6.2		6.2	1.1	ug/Kg	☼		03/04/15 22:13	1
1,1-Dichloroethane	<6.2		6.2	0.98	ug/Kg	☼		03/04/15 22:13	1
1,2-Dichloroethane	<6.2		6.2	0.92	ug/Kg	☼		03/04/15 22:13	1
1,1,1-Dichloroethene	<6.2		6.2	1.0	ug/Kg	☼		03/04/15 22:13	1
1,2-Dichloropropane	<6.2		6.2	0.94	ug/Kg	☼		03/04/15 22:13	1
1,3-Dichloropropene, Total	<6.2		6.2	0.81	ug/Kg	☼		03/04/15 22:13	1
Ethylbenzene	<6.2		6.2	1.2	ug/Kg	☼		03/04/15 22:13	1
2-Hexanone	<6.2		6.2	1.8	ug/Kg	☼		03/04/15 22:13	1
Methylene Chloride	<6.2		6.2	1.7	ug/Kg	☼		03/04/15 22:13	1
Methyl Ethyl Ketone	<6.2		6.2	2.2	ug/Kg	☼		03/04/15 22:13	1
methyl isobutyl ketone	<6.2		6.2	1.6	ug/Kg	☼		03/04/15 22:13	1
Methyl tert-butyl ether	<6.2		6.2	1.0	ug/Kg	☼		03/04/15 22:13	1
Styrene	<6.2		6.2	0.81	ug/Kg	☼		03/04/15 22:13	1
1,1,2,2-Tetrachloroethane	<6.2		6.2	1.2	ug/Kg	☼		03/04/15 22:13	1
Tetrachloroethene	<6.2		6.2	0.94	ug/Kg	☼		03/04/15 22:13	1
Toluene	<6.2		6.2	0.86	ug/Kg	☼		03/04/15 22:13	1
trans-1,2-Dichloroethene	<6.2		6.2	0.85	ug/Kg	☼		03/04/15 22:13	1
trans-1,3-Dichloropropene	<6.2		6.2	1.1	ug/Kg	☼		03/04/15 22:13	1
1,1,1-Trichloroethane	<6.2		6.2	0.92	ug/Kg	☼		03/04/15 22:13	1
1,1,2-Trichloroethane	<6.2		6.2	0.84	ug/Kg	☼		03/04/15 22:13	1
Trichloroethene	<6.2		6.2	1.0	ug/Kg	☼		03/04/15 22:13	1
Vinyl chloride	<6.2		6.2	1.3	ug/Kg	☼		03/04/15 22:13	1
Xylenes, Total	<12		12	0.56	ug/Kg	☼		03/04/15 22:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 122		03/04/15 22:13	1
Dibromofluoromethane	92		75 - 120		03/04/15 22:13	1
1,2-Dichloroethane-d4 (Surr)	81		70 - 134		03/04/15 22:13	1
Toluene-d8 (Surr)	100		75 - 122		03/04/15 22:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<200		200	43	ug/Kg	☼	03/02/15 16:12	03/07/15 01:05	1
1,2-Dichlorobenzene	<200		200	48	ug/Kg	☼	03/02/15 16:12	03/07/15 01:05	1
1,3-Dichlorobenzene	<200		200	45	ug/Kg	☼	03/02/15 16:12	03/07/15 01:05	1
1,4-Dichlorobenzene	<200		200	52	ug/Kg	☼	03/02/15 16:12	03/07/15 01:05	1
2,2'-oxybis[1-chloropropane]	<200		200	47	ug/Kg	☼	03/02/15 16:12	03/07/15 01:05	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Niles and Glenview - WO 011

TestAmerica Job ID: 500-92697-1

**Client Sample ID: TV-1(7-15)-022615**

**Lab Sample ID: 500-92697-12**

**Date Collected: 02/26/15 14:45**

**Matrix: Solid**

**Date Received: 02/27/15 12:30**

**Percent Solids: 80.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<400		400	92	ug/Kg	☼	03/02/15 16:12	03/07/15 01:05	1
2,4,6-Trichlorophenol	<400		400	140	ug/Kg	☼	03/02/15 16:12	03/07/15 01:05	1
2,4-Dichlorophenol	<400		400	96	ug/Kg	☼	03/02/15 16:12	03/07/15 01:05	1
2,4-Dimethylphenol	<400		400	150	ug/Kg	☼	03/02/15 16:12	03/07/15 01:05	1
2,4-Dinitrophenol	<810	*	810	710	ug/Kg	☼	03/02/15 16:12	03/07/15 01:05	1
2,4-Dinitrotoluene	<200		200	64	ug/Kg	☼	03/02/15 16:12	03/07/15 01:05	1
2,6-Dinitrotoluene	<200		200	79	ug/Kg	☼	03/02/15 16:12	03/07/15 01:05	1
2-Chloronaphthalene	<200		200	44	ug/Kg	☼	03/02/15 16:12	03/07/15 01:05	1
2-Chlorophenol	<200		200	69	ug/Kg	☼	03/02/15 16:12	03/07/15 01:05	1
<b>2-Methylnaphthalene</b>	<b>11</b>	<b>J</b>	40	7.4	ug/Kg	☼	03/02/15 16:12	03/07/15 01:05	1
2-Methylphenol	<200		200	65	ug/Kg	☼	03/02/15 16:12	03/07/15 01:05	1
2-Nitroaniline	<200		200	54	ug/Kg	☼	03/02/15 16:12	03/07/15 01:05	1
2-Nitrophenol	<400		400	95	ug/Kg	☼	03/02/15 16:12	03/07/15 01:05	1
3 & 4 Methylphenol	<200		200	67	ug/Kg	☼	03/02/15 16:12	03/07/15 01:05	1
3,3'-Dichlorobenzidine	<200		200	56	ug/Kg	☼	03/02/15 16:12	03/07/15 01:05	1
3-Nitroaniline	<400		400	120	ug/Kg	☼	03/02/15 16:12	03/07/15 01:05	1
4,6-Dinitro-2-methylphenol	<400	*	400	320	ug/Kg	☼	03/02/15 16:12	03/07/15 01:05	1
4-Bromophenyl phenyl ether	<200		200	53	ug/Kg	☼	03/02/15 16:12	03/07/15 01:05	1
4-Chloro-3-methylphenol	<400		400	140	ug/Kg	☼	03/02/15 16:12	03/07/15 01:05	1
4-Chloroaniline	<810		810	190	ug/Kg	☼	03/02/15 16:12	03/07/15 01:05	1
4-Chlorophenyl phenyl ether	<200		200	47	ug/Kg	☼	03/02/15 16:12	03/07/15 01:05	1
4-Nitroaniline	<400		400	170	ug/Kg	☼	03/02/15 16:12	03/07/15 01:05	1
4-Nitrophenol	<810		810	380	ug/Kg	☼	03/02/15 16:12	03/07/15 01:05	1
Acenaphthene	<40		40	7.2	ug/Kg	☼	03/02/15 16:12	03/07/15 01:05	1
Acenaphthylene	<40		40	5.3	ug/Kg	☼	03/02/15 16:12	03/07/15 01:05	1
Anthracene	<40		40	6.7	ug/Kg	☼	03/02/15 16:12	03/07/15 01:05	1
Benzo[a]anthracene	<40		40	5.4	ug/Kg	☼	03/02/15 16:12	03/07/15 01:05	1
Benzo[a]pyrene	<40		40	7.8	ug/Kg	☼	03/02/15 16:12	03/07/15 01:05	1
Benzo[b]fluoranthene	<40		40	8.7	ug/Kg	☼	03/02/15 16:12	03/07/15 01:05	1
<b>Benzo[g,h,i]perylene</b>	<b>21</b>	<b>J</b>	40	13	ug/Kg	☼	03/02/15 16:12	03/07/15 01:05	1
Benzo[k]fluoranthene	<40		40	12	ug/Kg	☼	03/02/15 16:12	03/07/15 01:05	1
Bis(2-chloroethoxy)methane	<200		200	41	ug/Kg	☼	03/02/15 16:12	03/07/15 01:05	1
Bis(2-chloroethyl)ether	<200		200	60	ug/Kg	☼	03/02/15 16:12	03/07/15 01:05	1
Bis(2-ethylhexyl) phthalate	<200		200	74	ug/Kg	☼	03/02/15 16:12	03/07/15 01:05	1
Butyl benzyl phthalate	<200		200	77	ug/Kg	☼	03/02/15 16:12	03/07/15 01:05	1
Carbazole	<200		200	100	ug/Kg	☼	03/02/15 16:12	03/07/15 01:05	1
<b>Chrysene</b>	<b>23</b>	<b>J</b>	40	11	ug/Kg	☼	03/02/15 16:12	03/07/15 01:05	1
Dibenz(a,h)anthracene	<40		40	7.8	ug/Kg	☼	03/02/15 16:12	03/07/15 01:05	1
Dibenzofuran	<200		200	47	ug/Kg	☼	03/02/15 16:12	03/07/15 01:05	1
Diethyl phthalate	<200		200	68	ug/Kg	☼	03/02/15 16:12	03/07/15 01:05	1
Dimethyl phthalate	<200		200	53	ug/Kg	☼	03/02/15 16:12	03/07/15 01:05	1
Di-n-butyl phthalate	<200		200	61	ug/Kg	☼	03/02/15 16:12	03/07/15 01:05	1
Di-n-octyl phthalate	<200		200	66	ug/Kg	☼	03/02/15 16:12	03/07/15 01:05	1
Fluoranthene	<40		40	7.5	ug/Kg	☼	03/02/15 16:12	03/07/15 01:05	1
Fluorene	<40		40	5.7	ug/Kg	☼	03/02/15 16:12	03/07/15 01:05	1
Hexachlorobenzene	<81		81	9.3	ug/Kg	☼	03/02/15 16:12	03/07/15 01:05	1
Hexachlorobutadiene	<200		200	63	ug/Kg	☼	03/02/15 16:12	03/07/15 01:05	1
Hexachlorocyclopentadiene	<810		810	230	ug/Kg	☼	03/02/15 16:12	03/07/15 01:05	1
Hexachloroethane	<200		200	61	ug/Kg	☼	03/02/15 16:12	03/07/15 01:05	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Niles and Glenview - WO 011

TestAmerica Job ID: 500-92697-1

**Client Sample ID: TV-1(7-15)-022615**

**Lab Sample ID: 500-92697-12**

**Date Collected: 02/26/15 14:45**

**Matrix: Solid**

**Date Received: 02/27/15 12:30**

**Percent Solids: 80.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<40		40	10	ug/Kg	☼	03/02/15 16:12	03/07/15 01:05	1
Isophorone	<200		200	45	ug/Kg	☼	03/02/15 16:12	03/07/15 01:05	1
Naphthalene	<40		40	6.2	ug/Kg	☼	03/02/15 16:12	03/07/15 01:05	1
Nitrobenzene	<40		40	10	ug/Kg	☼	03/02/15 16:12	03/07/15 01:05	1
N-Nitrosodi-n-propylamine	<200		200	49	ug/Kg	☼	03/02/15 16:12	03/07/15 01:05	1
N-Nitrosodiphenylamine	<200		200	48	ug/Kg	☼	03/02/15 16:12	03/07/15 01:05	1
Pentachlorophenol	<810		810	650	ug/Kg	☼	03/02/15 16:12	03/07/15 01:05	1
<b>Phenanthrene</b>	<b>46</b>		40	5.6	ug/Kg	☼	03/02/15 16:12	03/07/15 01:05	1
Phenol	<200		200	89	ug/Kg	☼	03/02/15 16:12	03/07/15 01:05	1
<b>Pyrene</b>	<b>17 J</b>		40	8.0	ug/Kg	☼	03/02/15 16:12	03/07/15 01:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	34	X	35 - 137	03/02/15 16:12	03/07/15 01:05	1
2-Fluorobiphenyl	43		25 - 119	03/02/15 16:12	03/07/15 01:05	1
2-Fluorophenol	52		25 - 110	03/02/15 16:12	03/07/15 01:05	1
Nitrobenzene-d5	38		25 - 115	03/02/15 16:12	03/07/15 01:05	1
Phenol-d5	57		31 - 110	03/02/15 16:12	03/07/15 01:05	1
Terphenyl-d14	82		36 - 134	03/02/15 16:12	03/07/15 01:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/06/15 09:10	03/06/15 18:22	1
<b>Barium</b>	<b>0.71</b>		0.50	0.050	mg/L		03/06/15 09:10	03/06/15 18:22	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/15 09:10	03/06/15 18:22	1
<b>Cadmium</b>	<b>0.0020 J</b>		0.0050	0.0020	mg/L		03/06/15 09:10	03/06/15 18:22	1
Chromium	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:22	1
Cobalt	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:22	1
<b>Copper</b>	<b>0.028</b>		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:22	1
<b>Iron</b>	<b>0.22</b>		0.20	0.20	mg/L		03/06/15 09:10	03/06/15 18:22	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/06/15 09:10	03/06/15 18:22	1
<b>Manganese</b>	<b>1.8</b>		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:22	1
Nickel	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:22	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/15 09:10	03/06/15 18:22	1
Silver	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:22	1
<b>Zinc</b>	<b>0.038 J</b>		0.10	0.020	mg/L		03/06/15 09:10	03/06/15 18:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.015 J</b>		0.050	0.010	mg/L		03/06/15 09:10	03/06/15 19:12	1
<b>Barium</b>	<b>0.32 J</b>		0.50	0.050	mg/L		03/06/15 09:10	03/06/15 19:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/15 09:10	03/06/15 19:12	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/06/15 09:10	03/06/15 19:12	1
<b>Chromium</b>	<b>0.082</b>		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 19:12	1
<b>Cobalt</b>	<b>0.028</b>		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 19:12	1
<b>Copper</b>	<b>0.070</b>		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 19:12	1
<b>Iron</b>	<b>56</b>		0.20	0.20	mg/L		03/06/15 09:10	03/06/15 19:12	1
<b>Lead</b>	<b>0.036</b>		0.0075	0.0075	mg/L		03/06/15 09:10	03/07/15 21:59	1
<b>Manganese</b>	<b>0.52</b>		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 19:12	1
<b>Nickel</b>	<b>0.085</b>		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 19:12	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/15 09:10	03/06/15 19:12	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Niles and Glenview - WO 011

TestAmerica Job ID: 500-92697-1

**Client Sample ID: TV-1(7-15)-022615**

**Lab Sample ID: 500-92697-12**

Date Collected: 02/26/15 14:45

Matrix: Solid

Date Received: 02/27/15 12:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 19:12	1
Zinc	0.15		0.10	0.020	mg/L		03/06/15 09:10	03/06/15 19:12	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.2	B	1.1	0.23	mg/Kg	☼	03/02/15 09:51	03/04/15 04:56	1
Arsenic	2.7		0.56	0.26	mg/Kg	☼	03/02/15 09:51	03/04/15 04:56	1
Barium	49		0.56	0.10	mg/Kg	☼	03/02/15 09:51	03/04/15 04:56	1
Beryllium	0.87		0.23	0.049	mg/Kg	☼	03/02/15 09:51	03/04/15 04:56	1
Cadmium	<0.11		0.11	0.033	mg/Kg	☼	03/02/15 09:51	03/04/15 04:56	1
Calcium	36000		11	3.6	mg/Kg	☼	03/02/15 09:51	03/04/15 04:56	1
Chromium	27		0.56	0.097	mg/Kg	☼	03/02/15 09:51	03/04/15 04:56	1
Cobalt	11		0.28	0.064	mg/Kg	☼	03/02/15 09:51	03/04/15 04:56	1
Copper	36		0.56	0.12	mg/Kg	☼	03/02/15 09:51	03/04/15 04:56	1
Iron	22000		11	4.3	mg/Kg	☼	03/02/15 09:51	03/04/15 04:56	1
Lead	9.4		0.28	0.14	mg/Kg	☼	03/02/15 09:51	03/04/15 04:56	1
Magnesium	21000		5.6	2.3	mg/Kg	☼	03/02/15 09:51	03/04/15 04:56	1
Manganese	340		0.56	0.11	mg/Kg	☼	03/02/15 09:51	03/04/15 04:56	1
Nickel	36		0.56	0.15	mg/Kg	☼	03/02/15 09:51	03/04/15 04:56	1
Potassium	3300		28	4.6	mg/Kg	☼	03/02/15 09:51	03/05/15 02:16	1
Selenium	0.91		0.56	0.28	mg/Kg	☼	03/02/15 09:51	03/04/15 04:56	1
Silver	0.15	J	0.28	0.066	mg/Kg	☼	03/02/15 09:51	03/04/15 04:56	1
Sodium	210		56	7.4	mg/Kg	☼	03/02/15 09:51	03/05/15 02:16	1
Thallium	1.2		0.56	0.28	mg/Kg	☼	03/02/15 09:51	03/04/15 04:56	1
Vanadium	20		0.28	0.082	mg/Kg	☼	03/02/15 09:51	03/05/15 02:16	1
Zinc	47		1.1	0.36	mg/Kg	☼	03/02/15 09:51	03/04/15 04:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/06/15 12:00	03/06/15 17:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/06/15 12:00	03/06/15 16:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	12	J	20	7.0	ug/Kg	☼	03/02/15 15:30	03/03/15 11:59	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.16		0.200	0.200	SU			03/03/15 13:38	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Niles and Glenview - WO 011

TestAmerica Job ID: 500-92697-1

## Qualifiers

### GC/MS VOA

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

### GC/MS Semi VOA

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

### Metals

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

## Glossary

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

# Certification Summary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Niles and Glenview - WO 011

TestAmerica Job ID: 500-92697-1

## Laboratory: TestAmerica Chicago

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

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

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

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

\* Certification renewal pending - certification considered valid.





# TestAmerica

THE LEADER IN ENVIRONMENTAL

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



500-92697 COC

Report To (optional)  
Contact: S. Babusukumar  
Company: Weston Solutions  
Address: 300 Plaza Circle #202  
Address: Mundelein, IL 60060  
Phone: 224-864-7250  
Fax:  
E-Mail: Babu.Babusukumar@westonsolutions.com

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

## Chain of Custody Record

Lab Job #: 500-92697

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

Page 1 of 2

Temperature °C of Cooler: 3.1

Client		Client Project #		Preservative							Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		Parameter								
Project Location/State		Lab PM										
Sampler												
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCS	SVOCS	metals	TCU/SLU metals	PH	Comments
1		MG-2(0-1)-022615	2-26-15	10:00	2	SO	X	X	X	X	X	
2		MG-1(0-7)-022615		10:25								
<del>MG-1(0-7)-022615</del>												
3		MG-1(7-15)-022615		10:30								
4		MG-1(7-15)-022615 D		10:30								
5		AB-1(0-1)-022615		10:45								
6		CB1-1(0-1)-022615		11:10								
7		GD-1(0-1)-022615		11:25								
8		MS-1(0-1)-022615		12:00								
9		GD-2(0-7)-022615	2-26-15	13:40	2	SO	X	X	X	X	X	

Turnaround Time Required (Business Days)

\_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days \_\_\_ 10 Days \_\_\_ 15 Days std 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>Shirley Ann</u> Company <u>Weston</u> Date <u>2-27-15</u> Time <u>1045</u>	Received By <u>Shirley Ann</u> Company <u>TA</u> Date <u>2/27/15</u> Time <u>1045</u>	Lab Courier <u>TA</u>
Relinquished By <u>Shirley Ann</u> Company <u>TA</u> Date <u>2/27/15</u> Time <u>1230</u>	Received By <u>Shirley Ann</u> Company <u>TA-CHE</u> Date <u>2/27/15</u> Time <u>1230</u>	Shipped _____
Relinquished By _____ Company _____ Date _____ Time _____	Received By _____ Company _____ Date _____ Time _____	Hand Delivered _____

Matrix Key

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

Client Comments

\_\_\_\_\_

Lab Comments:

\_\_\_\_\_

Report To (optional) S. Babusukumar Bill To (optional) SAME  
 Contact: S. Babusukumar Contact: SAME  
 Company: Weston Solutions, Inc. Company: \_\_\_\_\_  
 Address: 300 Plaza Circle #202 Address: \_\_\_\_\_  
 Address: Mundelein, IL 60060 Address: \_\_\_\_\_  
 Phone: 224-804-7250 Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_ Fax: \_\_\_\_\_  
 E-Mail: S.Babusukumar@westonsolutions.com PO#/Reference# \_\_\_\_\_

## Chain of Custody Record

Lab Job #: 500-92697  
 Chain of Custody Number: \_\_\_\_\_  
 Page 2 of 2  
 Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter					Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		Parameter		Parameter						
Project Location/State		Lab PM		Parameter		Parameter						
Sampler		Lab PM		Parameter		Parameter						
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCS	SVOCS	metals	TCLP/ SPLP metals	PH	Comments
10		GD-2(7-15)-022615	2/26/15	13:45	2	SO	X	X	X	X	X	
11		TU-1(0-7)-022615		14:40	1							
12		TU-1(7-15)-022615		14:45	1							
13		Gm-1(0-7)-022615		15:25	1							
14		Gm-1(7-15)-022615		15:30	1							
15		CB2-1(0-7)-022615		16:10	1							
16		CB2-1(7-15)-022615		16:15	1							
17		CB2-1(7-15)-022615	2/26/15	16:15	2	SO	X	X	X	X	X	
* last item *												

Turnaround Time Required (Business Days)

1 Day  2 Days  5 Days  7 Days  10 Days  15 Days  std 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>David Allen</u>	Company <u>Weston</u>	Date <u>2/27/15</u>	Time <u>10:45</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>2/27/15</u>	Time <u>10:45</u>
Relinquished By <u>[Signature]</u>	Company <u>TA</u>	Date <u>2/27/15</u>	Time <u>12:30</u>	Received By <u>[Signature]</u>	Company <u>TA-INT</u>	Date <u>2/27/15</u>	Time <u>12:30</u>

Lab Courier: TA  
 Shipped: \_\_\_\_\_  
 Hand Delivered: \_\_\_\_\_

Matrix Key

WW - Wastewater SE - Sediment  
 W - Water SO - Soil  
 S - Sill 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 374: IL 21 at IL 58 and Greenwood Ave Office Phone Number, if available: \_\_\_\_\_

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

9620 - 9640 Milwaukee Avenue (ISGS Site No. 2825-18)

City: Niles State: IL Zip Code: \_\_\_\_\_

County: Cook Township: \_\_\_\_\_

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

Latitude: 42.056348942 Longitude: -87.840136063  
(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.  
LPC 663 Rev. 8/2012

Project Name: FAP 374: IL 21 at IL 58 and Greenwood Ave

Latitude: 42.056348942 Longitude: -87.840136063

**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 CB1-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2825-18. SEE FIGURE 3-1 AND TABLE 4-1 OF THE PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

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

TEST AMERICA ANALYTICAL REPORT - JOB ID: 500-92697-1.  
ALSO SEE FIGURE 4-1 OF THE REVISED PRELIMINARY SITE INVESTIGATION REPORT.

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

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

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

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

Michael A. Castillo, P.G.  
 Printed Name:

Mich. Castillo  
 Licensed Professional Engineer or  
 Licensed Professional Geologist Signature:

April 15, 2015  
 Date:



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

**Summary Table of ISGS Site No. 2825-18**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 374: Illinois Route 21 at Illinois Route 58 and Greenwood Avenue**  
**Niles and Glenview, Cook County, Illinois**

<b>Field Sample ID</b>	CB1-1(0-1)-022615	<b>Soil Reference Concentrations<sup>A</sup></b>
<b>Sample Date</b>	2/26/2015	
<b>Location ID</b>	CB1-1	
<b>Depth</b>	0 - 1	
<b>ISGS Site No.</b>	2525-18	
<b>Parameter</b>		
Laboratory pH	8.21	<6.25,>9.0
<b>VOCs</b>	None Detected	
<b>SVOCs (ug/kg)</b>		
Benzo(a)anthracene	240	900 / 1100 / 1800
Benzo(a)pyrene	270	90 / 1300 / 2100
Benzo(b)fluoranthene	430	900 / 1500 / 2100
Benzo(g,h,i)perylene	320	---
Benzo(k)fluoranthene	200	9000
Chrysene	320	88000
Dibenzo(a,h)anthracene	69 J	90 / 200 / 420
Fluoranthene	540	3100000
Indeno(1,2,3-cd)pyrene	250	900 / 900 / 1600
Phenanthrene	270	---
Pyrene	520	2300000
<b>Total Metals (mg/kg)</b>		
Arsenic, Total	4.6 J-	11.3 / 13
Barium, Total	50 J	1500
Beryllium, Total	0.44	22
Cadmium, Total	0.27 J	5.2
Calcium, Total	96000 J	---
Chromium, Total	15	21
Cobalt, Total	4.9 J	20
Copper, Total	17 J	2900
Iron, Total	13000 J	15000 / 15900
Lead, Total	71 J	107
Magnesium, Total	49000 J	325000
Manganese, Total	430 J	630 / 636
Mercury, Total	0.039 J	0.89
Nickel, Total	13	100
Potassium, Total	1100 J+	---
Selenium, Total	0.45 J	1.3
Sodium, Total	170	---
Thallium, Total	1	2.6
Vanadium, Total	13	550
Zinc, Total	100 J	5100
<b>TCLP Metals (mg/l)</b>		
Barium, TCLP	0.44 J	2
Cadmium, TCLP	0.0035 J	0.005
Copper, TCLP	0.026	0.65
Manganese, TCLP	0.19	0.15
Zinc, TCLP	0.099 J	5
<b>SPLP Metals (mg/l)</b>		
Arsenic, SPLP	0.014 J	0.05
Barium, SPLP	0.19 J	2
Chromium, SPLP	0.035	0.1
Copper, SPLP	0.065	0.65
Iron, SPLP	23 J+	5
Lead, SPLP	0.071	0.0075
Manganese, SPLP	0.17	0.15
Nickel, SPLP	0.024 J	0.1
Zinc, SPLP	0.18	5
Percent Solids	86	

**Summary Table of ISGS Site No. 2825-18**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 374: Illinois Route 21 at Illinois Route 58 and Greenwood Avenue**  
**Niles and Glenview, Cook 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.

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: 500-92697-1  
Client Project/Site: IDOT - Niles and Glenview - WO 011

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

Attn: Mr. S. Babusukumar



Authorized for release by:  
3/10/2015 4:21:48 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 - Niles and Glenview - WO 011

TestAmerica Job ID: 500-92697-1

**Client Sample ID: CB1-1(0-1)-022615**

**Lab Sample ID: 500-92697-6**

**Date Collected: 02/26/15 11:10**

**Matrix: Solid**

**Date Received: 02/27/15 12:30**

**Percent Solids: 85.6**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.8		5.8	2.5	ug/Kg	☼		03/03/15 17:28	1
Benzene	<5.8		5.8	0.80	ug/Kg	☼		03/03/15 17:28	1
Bromodichloromethane	<5.8		5.8	1.0	ug/Kg	☼		03/03/15 17:28	1
Bromoform	<5.8		5.8	1.3	ug/Kg	☼		03/03/15 17:28	1
Bromomethane	<5.8		5.8	1.8	ug/Kg	☼		03/03/15 17:28	1
Carbon disulfide	<5.8		5.8	0.87	ug/Kg	☼		03/03/15 17:28	1
Carbon tetrachloride	<5.8	*	5.8	1.1	ug/Kg	☼		03/03/15 17:28	1
Chlorobenzene	<5.8		5.8	0.59	ug/Kg	☼		03/03/15 17:28	1
Chloroethane	<5.8		5.8	1.6	ug/Kg	☼		03/03/15 17:28	1
Chloroform	<5.8		5.8	0.67	ug/Kg	☼		03/03/15 17:28	1
Chloromethane	<5.8		5.8	1.2	ug/Kg	☼		03/03/15 17:28	1
cis-1,2-Dichloroethene	<5.8		5.8	0.83	ug/Kg	☼		03/03/15 17:28	1
cis-1,3-Dichloropropene	<5.8		5.8	0.77	ug/Kg	☼		03/03/15 17:28	1
Dibromochloromethane	<5.8		5.8	1.0	ug/Kg	☼		03/03/15 17:28	1
1,1-Dichloroethane	<5.8		5.8	0.92	ug/Kg	☼		03/03/15 17:28	1
1,2-Dichloroethane	<5.8		5.8	0.87	ug/Kg	☼		03/03/15 17:28	1
1,1-Dichloroethene	<5.8		5.8	0.94	ug/Kg	☼		03/03/15 17:28	1
1,2-Dichloropropane	<5.8		5.8	0.89	ug/Kg	☼		03/03/15 17:28	1
1,3-Dichloropropene, Total	<5.8		5.8	0.77	ug/Kg	☼		03/03/15 17:28	1
Ethylbenzene	<5.8		5.8	1.2	ug/Kg	☼		03/03/15 17:28	1
2-Hexanone	<5.8		5.8	1.7	ug/Kg	☼		03/03/15 17:28	1
Methylene Chloride	<5.8		5.8	1.6	ug/Kg	☼		03/03/15 17:28	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		03/03/15 17:28	1
methyl isobutyl ketone	<5.8		5.8	1.5	ug/Kg	☼		03/03/15 17:28	1
Methyl tert-butyl ether	<5.8		5.8	0.96	ug/Kg	☼		03/03/15 17:28	1
Styrene	<5.8		5.8	0.77	ug/Kg	☼		03/03/15 17:28	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	1.2	ug/Kg	☼		03/03/15 17:28	1
Tetrachloroethene	<5.8		5.8	0.89	ug/Kg	☼		03/03/15 17:28	1
Toluene	<5.8		5.8	0.82	ug/Kg	☼		03/03/15 17:28	1
trans-1,2-Dichloroethene	<5.8		5.8	0.80	ug/Kg	☼		03/03/15 17:28	1
trans-1,3-Dichloropropene	<5.8		5.8	1.0	ug/Kg	☼		03/03/15 17:28	1
1,1,1-Trichloroethane	<5.8		5.8	0.87	ug/Kg	☼		03/03/15 17:28	1
1,1,2-Trichloroethane	<5.8		5.8	0.80	ug/Kg	☼		03/03/15 17:28	1
Trichloroethene	<5.8		5.8	0.96	ug/Kg	☼		03/03/15 17:28	1
Vinyl chloride	<5.8		5.8	1.2	ug/Kg	☼		03/03/15 17:28	1
Xylenes, Total	<12		12	0.53	ug/Kg	☼		03/03/15 17:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 122		03/03/15 17:28	1
Dibromofluoromethane	83		75 - 120		03/03/15 17:28	1
1,2-Dichloroethane-d4 (Surr)	81		70 - 134		03/03/15 17:28	1
Toluene-d8 (Surr)	100		75 - 122		03/03/15 17:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<960		960	210	ug/Kg	☼	03/02/15 16:12	03/10/15 12:41	5
1,2-Dichlorobenzene	<960		960	230	ug/Kg	☼	03/02/15 16:12	03/10/15 12:41	5
1,3-Dichlorobenzene	<960		960	210	ug/Kg	☼	03/02/15 16:12	03/10/15 12:41	5
1,4-Dichlorobenzene	<960		960	240	ug/Kg	☼	03/02/15 16:12	03/10/15 12:41	5
2,2'-oxybis[1-chloropropane]	<960		960	220	ug/Kg	☼	03/02/15 16:12	03/10/15 12:41	5

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Niles and Glenview - WO 011

TestAmerica Job ID: 500-92697-1

**Client Sample ID: CB1-1(0-1)-022615**

**Lab Sample ID: 500-92697-6**

**Date Collected: 02/26/15 11:10**

**Matrix: Solid**

**Date Received: 02/27/15 12:30**

**Percent Solids: 85.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<1900		1900	430	ug/Kg	☼	03/02/15 16:12	03/10/15 12:41	5
2,4,6-Trichlorophenol	<1900		1900	650	ug/Kg	☼	03/02/15 16:12	03/10/15 12:41	5
2,4-Dichlorophenol	<1900		1900	450	ug/Kg	☼	03/02/15 16:12	03/10/15 12:41	5
2,4-Dimethylphenol	<1900		1900	720	ug/Kg	☼	03/02/15 16:12	03/10/15 12:41	5
2,4-Dinitrophenol	<3800	*	3800	3400	ug/Kg	☼	03/02/15 16:12	03/10/15 12:41	5
2,4-Dinitrotoluene	<960		960	300	ug/Kg	☼	03/02/15 16:12	03/10/15 12:41	5
2,6-Dinitrotoluene	<960		960	370	ug/Kg	☼	03/02/15 16:12	03/10/15 12:41	5
2-Chloronaphthalene	<960		960	210	ug/Kg	☼	03/02/15 16:12	03/10/15 12:41	5
2-Chlorophenol	<960		960	330	ug/Kg	☼	03/02/15 16:12	03/10/15 12:41	5
2-Methylnaphthalene	<190		190	35	ug/Kg	☼	03/02/15 16:12	03/10/15 12:41	5
2-Methylphenol	<960		960	310	ug/Kg	☼	03/02/15 16:12	03/10/15 12:41	5
2-Nitroaniline	<960		960	260	ug/Kg	☼	03/02/15 16:12	03/10/15 12:41	5
2-Nitrophenol	<1900		1900	450	ug/Kg	☼	03/02/15 16:12	03/10/15 12:41	5
3 & 4 Methylphenol	<960		960	320	ug/Kg	☼	03/02/15 16:12	03/10/15 12:41	5
3,3'-Dichlorobenzidine	<960		960	270	ug/Kg	☼	03/02/15 16:12	03/10/15 12:41	5
3-Nitroaniline	<1900		1900	590	ug/Kg	☼	03/02/15 16:12	03/10/15 12:41	5
4,6-Dinitro-2-methylphenol	<1900	*	1900	1500	ug/Kg	☼	03/02/15 16:12	03/10/15 12:41	5
4-Bromophenyl phenyl ether	<960		960	250	ug/Kg	☼	03/02/15 16:12	03/10/15 12:41	5
4-Chloro-3-methylphenol	<1900		1900	650	ug/Kg	☼	03/02/15 16:12	03/10/15 12:41	5
4-Chloroaniline	<3800		3800	890	ug/Kg	☼	03/02/15 16:12	03/10/15 12:41	5
4-Chlorophenyl phenyl ether	<960		960	220	ug/Kg	☼	03/02/15 16:12	03/10/15 12:41	5
4-Nitroaniline	<1900		1900	800	ug/Kg	☼	03/02/15 16:12	03/10/15 12:41	5
4-Nitrophenol	<3800		3800	1800	ug/Kg	☼	03/02/15 16:12	03/10/15 12:41	5
Acenaphthene	<190		190	34	ug/Kg	☼	03/02/15 16:12	03/10/15 12:41	5
Acenaphthylene	<190		190	25	ug/Kg	☼	03/02/15 16:12	03/10/15 12:41	5
Anthracene	<190		190	32	ug/Kg	☼	03/02/15 16:12	03/10/15 12:41	5
<b>Benzo[a]anthracene</b>	<b>240</b>		190	26	ug/Kg	☼	03/02/15 16:12	03/10/15 12:41	5
<b>Benzo[a]pyrene</b>	<b>270</b>		190	37	ug/Kg	☼	03/02/15 16:12	03/10/15 12:41	5
<b>Benzo[b]fluoranthene</b>	<b>430</b>		190	41	ug/Kg	☼	03/02/15 16:12	03/10/15 12:41	5
<b>Benzo[g,h,i]perylene</b>	<b>320</b>		190	61	ug/Kg	☼	03/02/15 16:12	03/10/15 12:41	5
<b>Benzo[k]fluoranthene</b>	<b>200</b>		190	56	ug/Kg	☼	03/02/15 16:12	03/10/15 12:41	5
Bis(2-chloroethoxy)methane	<960		960	190	ug/Kg	☼	03/02/15 16:12	03/10/15 12:41	5
Bis(2-chloroethyl)ether	<960		960	290	ug/Kg	☼	03/02/15 16:12	03/10/15 12:41	5
Bis(2-ethylhexyl) phthalate	<960		960	350	ug/Kg	☼	03/02/15 16:12	03/10/15 12:41	5
Butyl benzyl phthalate	<960		960	360	ug/Kg	☼	03/02/15 16:12	03/10/15 12:41	5
Carbazole	<960		960	490	ug/Kg	☼	03/02/15 16:12	03/10/15 12:41	5
<b>Chrysene</b>	<b>320</b>		190	52	ug/Kg	☼	03/02/15 16:12	03/10/15 12:41	5
<b>Dibenz(a,h)anthracene</b>	<b>69</b>	J	190	37	ug/Kg	☼	03/02/15 16:12	03/10/15 12:41	5
Dibenzofuran	<960		960	220	ug/Kg	☼	03/02/15 16:12	03/10/15 12:41	5
Diethyl phthalate	<960		960	320	ug/Kg	☼	03/02/15 16:12	03/10/15 12:41	5
Dimethyl phthalate	<960		960	250	ug/Kg	☼	03/02/15 16:12	03/10/15 12:41	5
Di-n-butyl phthalate	<960		960	290	ug/Kg	☼	03/02/15 16:12	03/10/15 12:41	5
Di-n-octyl phthalate	<960		960	310	ug/Kg	☼	03/02/15 16:12	03/10/15 12:41	5
<b>Fluoranthene</b>	<b>540</b>		190	35	ug/Kg	☼	03/02/15 16:12	03/10/15 12:41	5
Fluorene	<190		190	27	ug/Kg	☼	03/02/15 16:12	03/10/15 12:41	5
Hexachlorobenzene	<380		380	44	ug/Kg	☼	03/02/15 16:12	03/10/15 12:41	5
Hexachlorobutadiene	<960		960	300	ug/Kg	☼	03/02/15 16:12	03/10/15 12:41	5
Hexachlorocyclopentadiene	<3800		3800	1100	ug/Kg	☼	03/02/15 16:12	03/10/15 12:41	5
Hexachloroethane	<960		960	290	ug/Kg	☼	03/02/15 16:12	03/10/15 12:41	5

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Niles and Glenview - WO 011

TestAmerica Job ID: 500-92697-1

**Client Sample ID: CB1-1(0-1)-022615**

**Lab Sample ID: 500-92697-6**

Date Collected: 02/26/15 11:10

Matrix: Solid

Date Received: 02/27/15 12:30

Percent Solids: 85.6

**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>250</b>		190	49	ug/Kg	☼	03/02/15 16:12	03/10/15 12:41	5
Isophorone	<960		960	210	ug/Kg	☼	03/02/15 16:12	03/10/15 12:41	5
Naphthalene	<190		190	29	ug/Kg	☼	03/02/15 16:12	03/10/15 12:41	5
Nitrobenzene	<190		190	48	ug/Kg	☼	03/02/15 16:12	03/10/15 12:41	5
N-Nitrosodi-n-propylamine	<960		960	230	ug/Kg	☼	03/02/15 16:12	03/10/15 12:41	5
N-Nitrosodiphenylamine	<960		960	220	ug/Kg	☼	03/02/15 16:12	03/10/15 12:41	5
Pentachlorophenol	<3800		3800	3100	ug/Kg	☼	03/02/15 16:12	03/10/15 12:41	5
<b>Phenanthrene</b>	<b>270</b>		190	27	ug/Kg	☼	03/02/15 16:12	03/10/15 12:41	5
Phenol	<960		960	420	ug/Kg	☼	03/02/15 16:12	03/10/15 12:41	5
<b>Pyrene</b>	<b>520</b>		190	38	ug/Kg	☼	03/02/15 16:12	03/10/15 12:41	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	45		35 - 137				03/02/15 16:12	03/10/15 12:41	5
2-Fluorobiphenyl	57		25 - 119				03/02/15 16:12	03/10/15 12:41	5
2-Fluorophenol	49		25 - 110				03/02/15 16:12	03/10/15 12:41	5
Nitrobenzene-d5	49		25 - 115				03/02/15 16:12	03/10/15 12:41	5
Phenol-d5	56		31 - 110				03/02/15 16:12	03/10/15 12:41	5
Terphenyl-d14	62		36 - 134				03/02/15 16:12	03/10/15 12:41	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/06/15 09:10	03/06/15 17:56	1
<b>Barium</b>	<b>0.44</b>	<b>J</b>	0.50	0.050	mg/L		03/06/15 09:10	03/06/15 17:56	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/15 09:10	03/06/15 17:56	1
<b>Cadmium</b>	<b>0.0035</b>	<b>J</b>	0.0050	0.0020	mg/L		03/06/15 09:10	03/06/15 17:56	1
Chromium	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 17:56	1
Cobalt	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 17:56	1
<b>Copper</b>	<b>0.026</b>		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 17:56	1
Iron	<0.20		0.20	0.20	mg/L		03/06/15 09:10	03/06/15 17:56	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/06/15 09:10	03/06/15 17:56	1
<b>Manganese</b>	<b>0.19</b>		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 17:56	1
Nickel	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 17:56	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/15 09:10	03/06/15 17:56	1
Silver	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 17:56	1
<b>Zinc</b>	<b>0.099</b>	<b>J</b>	0.10	0.020	mg/L		03/06/15 09:10	03/06/15 17:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.014</b>	<b>J</b>	0.050	0.010	mg/L		03/06/15 09:10	03/06/15 18:48	1
<b>Barium</b>	<b>0.19</b>	<b>J</b>	0.50	0.050	mg/L		03/06/15 09:10	03/06/15 18:48	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/15 09:10	03/06/15 18:48	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/06/15 09:10	03/06/15 18:48	1
<b>Chromium</b>	<b>0.035</b>		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:48	1
Cobalt	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:48	1
<b>Copper</b>	<b>0.065</b>		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:48	1
<b>Iron</b>	<b>23</b>		0.20	0.20	mg/L		03/06/15 09:10	03/06/15 18:48	1
<b>Lead</b>	<b>0.071</b>		0.0075	0.0075	mg/L		03/06/15 09:10	03/06/15 18:48	1
<b>Manganese</b>	<b>0.17</b>		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:48	1
<b>Nickel</b>	<b>0.024</b>	<b>J</b>	0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:48	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/15 09:10	03/06/15 18:48	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Niles and Glenview - WO 011

TestAmerica Job ID: 500-92697-1

**Client Sample ID: CB1-1(0-1)-022615**

**Lab Sample ID: 500-92697-6**

Date Collected: 02/26/15 11:10

Matrix: Solid

Date Received: 02/27/15 12:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:48	1
Zinc	0.18		0.10	0.020	mg/L		03/06/15 09:10	03/06/15 18:48	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.39	J B	1.2	0.24	mg/Kg	☼	03/02/15 09:51	03/04/15 04:18	1
Arsenic	4.6		0.58	0.27	mg/Kg	☼	03/02/15 09:51	03/04/15 04:18	1
Barium	50		0.58	0.11	mg/Kg	☼	03/02/15 09:51	03/04/15 04:18	1
Beryllium	0.44		0.23	0.050	mg/Kg	☼	03/02/15 09:51	03/04/15 04:18	1
Cadmium	0.27		0.12	0.033	mg/Kg	☼	03/02/15 09:51	03/04/15 04:18	1
Calcium	96000		120	37	mg/Kg	☼	03/02/15 09:51	03/05/15 01:39	10
Chromium	15		0.58	0.099	mg/Kg	☼	03/02/15 09:51	03/04/15 04:18	1
Cobalt	4.9		0.29	0.065	mg/Kg	☼	03/02/15 09:51	03/04/15 04:18	1
Copper	17		0.58	0.13	mg/Kg	☼	03/02/15 09:51	03/04/15 04:18	1
Iron	13000		12	4.5	mg/Kg	☼	03/02/15 09:51	03/04/15 04:18	1
Lead	71		0.29	0.14	mg/Kg	☼	03/02/15 09:51	03/04/15 04:18	1
Magnesium	49000		5.8	2.3	mg/Kg	☼	03/02/15 09:51	03/04/15 04:18	1
Manganese	430		0.58	0.11	mg/Kg	☼	03/02/15 09:51	03/04/15 04:18	1
Nickel	13		0.58	0.16	mg/Kg	☼	03/02/15 09:51	03/04/15 04:18	1
Potassium	1100		29	4.7	mg/Kg	☼	03/02/15 09:51	03/05/15 01:34	1
Selenium	0.45	J	0.58	0.29	mg/Kg	☼	03/02/15 09:51	03/04/15 04:18	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	03/02/15 09:51	03/04/15 04:18	1
Sodium	170		58	7.6	mg/Kg	☼	03/02/15 09:51	03/05/15 01:34	1
Thallium	1.0		0.58	0.28	mg/Kg	☼	03/02/15 09:51	03/04/15 04:18	1
Vanadium	13		0.29	0.084	mg/Kg	☼	03/02/15 09:51	03/05/15 01:34	1
Zinc	100		1.2	0.37	mg/Kg	☼	03/02/15 09:51	03/04/15 04:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/06/15 12:00	03/06/15 17:22	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		03/06/15 12:00	03/06/15 16:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	39		17	5.8	ug/Kg	☼	03/02/15 15:30	03/03/15 11:42	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.21		0.200	0.200	SU			03/03/15 13:16	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Niles and Glenview - WO 011

TestAmerica Job ID: 500-92697-1

## Qualifiers

### GC/MS VOA

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

### GC/MS Semi VOA

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

### Metals

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

## Glossary

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

# Certification Summary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Niles and Glenview - WO 011

TestAmerica Job ID: 500-92697-1

## Laboratory: TestAmerica Chicago

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

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

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

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

\* Certification renewal pending - certification considered valid.

# TestAmerica

THE LEADER IN ENVIRONMENTAL

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



500-92697 COC

Report To (optional)  
Contact: S. Babusukumar  
Company: Weston Solutions  
Address: 300 Plaza Circle #202  
Address: Mundelein, IL 60060  
Phone: 224-864-7250  
Fax:  
E-Mail: Babu.Babusukumar@westonsolutions.com

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

## Chain of Custody Record

Lab Job #: 500-92697

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

Page 1 of 2

Temperature °C of Cooler: 3.1

Client		Client Project #		Preservative							Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		Parameter								
Project Location/State		Lab PM										
Sampler												
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCS	SVOCS	metals	TCU/SLU metals	PH	Comments
1		MG-2(0-1)-022615	2-26-15	10:00	2	SO	X	X	X	X	X	
2		MG-1(0-7)-022615		10:25								
<del>MG-1(0-7)-022615</del>												
3		MG-1(7-15)-022615		10:30								
4		MG-1(7-15)-022615 D		10:30								
5		AB-1(0-1)-022615		10:45								
6		CB1-1(0-1)-022615		11:10								
7		GD-1(0-1)-022615		11:25								
8		MS-1(0-1)-022615		12:00								
9		GD-2(0-7)-022615	2-26-15	13:40	2	SO	X	X	X	X	X	

Turnaround Time Required (Business Days)

\_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days \_\_\_ 10 Days \_\_\_ 15 Days std 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>Shirley Ann</u> Company <u>Weston</u> Date <u>2-27-15</u> Time <u>1045</u>	Received By <u>Shirley Ann</u> Company <u>TA</u> Date <u>2/27/15</u> Time <u>1045</u>	Lab Courier <u>TA</u>
Relinquished By <u>Shirley Ann</u> Company <u>TA</u> Date <u>2/27/15</u> Time <u>1230</u>	Received By <u>Shirley Ann</u> Company <u>TA-CHE</u> Date <u>2/27/15</u> Time <u>1230</u>	Shipped _____
Relinquished By _____ Company _____ Date _____ Time _____	Received By _____ Company _____ Date _____ Time _____	Hand Delivered _____

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

Client Comments

Lab Comments:

Report To (optional) S. Babusukumar Bill To (optional) SAME  
 Contact: S. Babusukumar Contact: SAME  
 Company: Weston Solutions, Inc. Company: SAME  
 Address: 300 Plaza Circle #202 Address:   
 Address: Murderlein, IL 60060 Address:   
 Phone: 224-804-7250 Phone:   
 Fax:  Fax:   
 E-Mail: S.Babusukumar@westonsolutions.com PO#/Reference#

## Chain of Custody Record

Lab Job #: 500-92697  
 Chain of Custody Number:   
 Page 2 of 2  
 Temperature °C of Cooler:

Client		Client Project #		Preservative							Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other
Project Name		Parameter							Comments		
Project Location/State		Lab Project #									
Sampler		Lab PM									
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix	VOCS	SVOCS	metals	TCUP/ SPLP metals	PH
			Date	Time							
10		GD-2(7-15)-022615	2/26/15	13:45	2	SO	X	X	X	X	X
11		TU-1(0-7)-022615		14:40	1						
12		TU-1(7-15)-022615		14:45	1						
13		GM-1(0-7)-022615		15:25	1						
14		GM-1(7-15)-022615		15:30	1						
15		CB2-1(0-7)-022615		16:10	1						
16		CB2-1(7-15)-022615		16:15	1						
17		CB2-1(7-15)-022615	2/26/15	16:15	2	SO	X	X	X	X	X
* last item *											

Turnaround Time Required (Business Days)

1 Day  2 Days  5 Days  7 Days  10 Days  15 Days  Std 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>David Allen</u>	Company <u>Weston</u>	Date <u>2/27/15</u>	Time <u>10:45</u>	Received By <u>TA</u>	Company <u>TA</u>	Date <u>2/27/15</u>	Time <u>10:45</u>
Relinquished By <u>TA</u>	Company <u>TA</u>	Date <u>2/27/15</u>	Time <u>12:30</u>	Received By <u>TA</u>	Company <u>TA</u>	Date <u>2/27/15</u>	Time <u>12:30</u>

Lab Courier: TA  
 Shipped:   
 Hand Delivered:

Matrix Key

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

Client Comments

Lab Comments:



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

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

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

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

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

### I. Source Location Information

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

Project Name: FAP 374: IL 21 at IL 58 and Greenwood Ave Office Phone Number, if available: \_\_\_\_\_

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

9645 Milwaukee Avenue (ISGS Site No. 2825-21)

City: Niles State: IL Zip Code: \_\_\_\_\_

County: Cook Township: \_\_\_\_\_

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

Latitude: 42.056008 Longitude: -87.839497  
(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 374: IL 21 at IL 58 and Greenwood Ave

Latitude: 42.056008 Longitude: -87.839497

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 GD-1 AND GD-2 WERE SAMPLED ADJACENT TO ISGS SITE No. 2825-21. SEE FIGURE 3-1 AND TABLE 4-1 OF THE PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

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

TEST AMERICA ANALYTICAL REPORT - JOB ID: 500-92697-1.  
ALSO SEE FIGURE 4-1 OF THE REVISED PRELIMINARY SITE INVESTIGATION REPORT.

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

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

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

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

Michael A. Castillo, P.G.  
 Printed Name:

Michael Castillo  
 Licensed Professional Engineer or  
 Licensed Professional Geologist Signature:

April 15 2015  
 Date:



**Summary Table of ISGS Site No. 2825-21**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 374: Illinois Route 21 at Illinois Route 58 and Greenwood Avenue**  
**Niles and Glenview, Cook County, Illinois**

Field Sample ID	GD-1(0-1)-022615	GD-2(0-7)-022615	GD-2(7-15)-022615	Soil Reference Concentrations <sup>A</sup>
Sample Date	2/26/2015	2/26/2015	2/26/2015	
Location ID	GD-1	GD-2	GD-2	
Depth	0 - 1	0 - 7	7 - 15	
ISGS Site No.	2825-21	2825-21	2825-21	
Parameter				
Laboratory pH	8.51	8.04	8.14	<6.25,>9.0
<b>VOCs (ug/kg)</b>				
Acetone	ND	ND	11	25000
<b>SVOCs (ug/kg)</b>				
2-Methylnaphthalene	8.6 J	ND	31 J	---
Acenaphthene	91 J-	ND	ND	570000
Anthracene	230 J-	ND	ND	1.20E+07
Benzo(a)anthracene	1000	27 J	ND	900 / 1100 / 1800
Benzo(a)pyrene	1100 J-	27 J	ND	90 / 1300 / 2100
Benzo(b)fluoranthene	1600 J-	39 J	ND	900 / 1500 / 2100
Benzo(g,h,i)perylene	1100	32 J	26 J	---
Benzo(k)fluoranthene	730	19 J	ND	9000
Carbazole	130 J	ND	ND	600
Chrysene	1300	39 J	18 J	88000
Dibenzo(a,h)anthracene	250	9.1 J	ND	90 / 200 / 420
Dibenzofuran	53 J	ND	ND	---
Di-N-Octyl phthalate	ND	ND	ND	1600000
Fluoranthene	1100 J-	52	ND	3100000
Fluorene	99 J-	ND	ND	560000
Indeno(1,2,3-cd)pyrene	920	22 J	ND	900 / 900 / 1600
Naphthalene, SVOC	21 J	ND	9.3 J	1800
Phenanthrene	1200 J-	24 J	38 J	---
Pyrene	2300 J+	55	15 J	2300000
<b>Total Metals (mg/kg)</b>				
Arsenic, Total	6.6 J-	7.1 J-	7.9 J-	11.3 / 13
Barium, Total	95 J	84 J	26 J	1500
Beryllium, Total	1	1	0.9	22
Cadmium, Total	0.12 J	0.083 J	ND	5.2
Calcium, Total	23000 J	21000 J	50000 J	---
Chromium, Total	27	27	24	21
Cobalt, Total	10 J	12 J	12 J	20
Copper, Total	23 J	24 J	22 J	2900
Iron, Total	23000 J	24000 J	24000 J	15000 / 15900
Lead, Total	62 J	160 J	11 J	107
Magnesium, Total	15000 J	15000 J	21000 J	325000
Manganese, Total	370 J	290 J	320 J	630 / 636
Mercury, Total	0.04 J	0.035 J	0.027 J	0.89
Nickel, Total	27	32	34	100
Potassium, Total	2600 J+	2600 J+	3300 J+	---
Selenium, Total	0.83	0.91	0.91	1.3
Silver, Total	0.078 J	ND	0.082 J	4.4
Sodium, Total	280	400	230	---
Thallium, Total	1.3	1.3	1.3	2.6
Vanadium, Total	27	26	22	550
Zinc, Total	68 J	77 J	49 J	5100
<b>TCLP Metals (mg/l)</b>				
Barium, TCLP	0.33 J	0.24 J	0.38 J	2
Cadmium, TCLP	0.0023 J	0.0024 J	ND	0.005
Cobalt, TCLP	ND	ND	0.017 J	1
Copper, TCLP	0.034	0.015 J	0.023 J	0.65
Iron, TCLP	0.22	ND	0.21	5
Lead, TCLP	0.0083	ND	ND	0.0075
Manganese, TCLP	0.31	0.43	1.4	0.15
Nickel, TCLP	ND	ND	0.051	0.1
Zinc, TCLP	0.066 J	0.031 J	0.036 J	5

**Summary Table of ISGS Site No. 2825-21**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 374: Illinois Route 21 at Illinois Route 58 and Greenwood Avenue**  
**Niles and Glenview, Cook County, Illinois**

Field Sample ID	GD-1(0-1)-022615	GD-2(0-7)-022615	GD-2(7-15)-022615	Soil Reference Concentrations <sup>A</sup>
Sample Date	2/26/2015	2/26/2015	2/26/2015	
Location ID	GD-1	GD-2	GD-2	
Depth	0 - 1	0 - 7	7 - 15	
ISGS Site No.	2825-21	2825-21	2825-21	
Parameter				
<b>SPLP Metals (mg/l)</b>				
Arsenic, SPLP	0.027 J	ND	ND	0.05
Barium, SPLP	0.37 J	ND	0.051 J	2
Chromium, SPLP	0.099	ND	ND	0.1
Cobalt, SPLP	0.02 J	ND	ND	1
Copper, SPLP	0.096	0.044	0.028	0.65
Iron, SPLP	75 J+	0.31 J+	0.42 J+	5
Lead, SPLP	0.1	0.0085	ND	0.0075
Manganese, SPLP	0.32	ND	0.019 J	0.15
Nickel, SPLP	0.082	ND	ND	0.1
Zinc, SPLP	0.25	0.052 J	0.042 J	5
Percent Solids	77	79	81	

**Notes:**

--- - not applicable or value not available.

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

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

J- - Estimated concentration, biased 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: 500-92697-1  
Client Project/Site: IDOT - Niles and Glenview - WO 011

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

Attn: Mr. S. Babusukumar



Authorized for release by:  
3/10/2015 4:21:48 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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[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 - Niles and Glenview - WO 011

TestAmerica Job ID: 500-92697-1

**Client Sample ID: GD-1(0-1)-022615**

**Lab Sample ID: 500-92697-7**

**Date Collected: 02/26/15 11:25**

**Matrix: Solid**

**Date Received: 02/27/15 12:30**

**Percent Solids: 77.4**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<6.5		6.5	2.8	ug/Kg	☼		03/03/15 17:53	1
Benzene	<6.5		6.5	0.88	ug/Kg	☼		03/03/15 17:53	1
Bromodichloromethane	<6.5		6.5	1.1	ug/Kg	☼		03/03/15 17:53	1
Bromoform	<6.5		6.5	1.5	ug/Kg	☼		03/03/15 17:53	1
Bromomethane	<6.5		6.5	1.9	ug/Kg	☼		03/03/15 17:53	1
Carbon disulfide	<6.5		6.5	0.96	ug/Kg	☼		03/03/15 17:53	1
Carbon tetrachloride	<6.5 *		6.5	1.2	ug/Kg	☼		03/03/15 17:53	1
Chlorobenzene	<6.5		6.5	0.65	ug/Kg	☼		03/03/15 17:53	1
Chloroethane	<6.5		6.5	1.8	ug/Kg	☼		03/03/15 17:53	1
Chloroform	<6.5		6.5	0.74	ug/Kg	☼		03/03/15 17:53	1
Chloromethane	<6.5		6.5	1.4	ug/Kg	☼		03/03/15 17:53	1
cis-1,2-Dichloroethene	<6.5		6.5	0.91	ug/Kg	☼		03/03/15 17:53	1
cis-1,3-Dichloropropene	<6.5		6.5	0.85	ug/Kg	☼		03/03/15 17:53	1
Dibromochloromethane	<6.5		6.5	1.1	ug/Kg	☼		03/03/15 17:53	1
1,1-Dichloroethane	<6.5		6.5	1.0	ug/Kg	☼		03/03/15 17:53	1
1,2-Dichloroethane	<6.5		6.5	0.96	ug/Kg	☼		03/03/15 17:53	1
1,1-Dichloroethene	<6.5		6.5	1.0	ug/Kg	☼		03/03/15 17:53	1
1,2-Dichloropropane	<6.5		6.5	0.98	ug/Kg	☼		03/03/15 17:53	1
1,3-Dichloropropene, Total	<6.5		6.5	0.85	ug/Kg	☼		03/03/15 17:53	1
Ethylbenzene	<6.5		6.5	1.3	ug/Kg	☼		03/03/15 17:53	1
2-Hexanone	<6.5		6.5	1.9	ug/Kg	☼		03/03/15 17:53	1
Methylene Chloride	<6.5		6.5	1.7	ug/Kg	☼		03/03/15 17:53	1
Methyl Ethyl Ketone	<6.5		6.5	2.3	ug/Kg	☼		03/03/15 17:53	1
methyl isobutyl ketone	<6.5		6.5	1.7	ug/Kg	☼		03/03/15 17:53	1
Methyl tert-butyl ether	<6.5		6.5	1.1	ug/Kg	☼		03/03/15 17:53	1
Styrene	<6.5		6.5	0.85	ug/Kg	☼		03/03/15 17:53	1
1,1,2,2-Tetrachloroethane	<6.5		6.5	1.3	ug/Kg	☼		03/03/15 17:53	1
Tetrachloroethene	<6.5		6.5	0.99	ug/Kg	☼		03/03/15 17:53	1
Toluene	<6.5		6.5	0.90	ug/Kg	☼		03/03/15 17:53	1
trans-1,2-Dichloroethene	<6.5		6.5	0.89	ug/Kg	☼		03/03/15 17:53	1
trans-1,3-Dichloropropene	<6.5		6.5	1.2	ug/Kg	☼		03/03/15 17:53	1
1,1,1-Trichloroethane	<6.5		6.5	0.96	ug/Kg	☼		03/03/15 17:53	1
1,1,2-Trichloroethane	<6.5		6.5	0.88	ug/Kg	☼		03/03/15 17:53	1
Trichloroethene	<6.5		6.5	1.1	ug/Kg	☼		03/03/15 17:53	1
Vinyl chloride	<6.5		6.5	1.4	ug/Kg	☼		03/03/15 17:53	1
Xylenes, Total	<13		13	0.58	ug/Kg	☼		03/03/15 17:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 122		03/03/15 17:53	1
Dibromofluoromethane	85		75 - 120		03/03/15 17:53	1
1,2-Dichloroethane-d4 (Surr)	73		70 - 134		03/03/15 17:53	1
Toluene-d8 (Surr)	101		75 - 122		03/03/15 17:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<210	F1	210	45	ug/Kg	☼	03/02/15 16:12	03/06/15 22:59	1
1,2-Dichlorobenzene	<210	F1	210	50	ug/Kg	☼	03/02/15 16:12	03/06/15 22:59	1
1,3-Dichlorobenzene	<210	F1	210	47	ug/Kg	☼	03/02/15 16:12	03/06/15 22:59	1
1,4-Dichlorobenzene	<210	F1	210	54	ug/Kg	☼	03/02/15 16:12	03/06/15 22:59	1
2,2'-oxybis[1-chloropropane]	<210		210	49	ug/Kg	☼	03/02/15 16:12	03/06/15 22:59	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Niles and Glenview - WO 011

TestAmerica Job ID: 500-92697-1

**Client Sample ID: GD-1(0-1)-022615**

**Lab Sample ID: 500-92697-7**

**Date Collected: 02/26/15 11:25**

**Matrix: Solid**

**Date Received: 02/27/15 12:30**

**Percent Solids: 77.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<420		420	96	ug/Kg	☼	03/02/15 16:12	03/06/15 22:59	1
2,4,6-Trichlorophenol	<420		420	140	ug/Kg	☼	03/02/15 16:12	03/06/15 22:59	1
2,4-Dichlorophenol	<420		420	100	ug/Kg	☼	03/02/15 16:12	03/06/15 22:59	1
2,4-Dimethylphenol	<420		420	160	ug/Kg	☼	03/02/15 16:12	03/06/15 22:59	1
2,4-Dinitrophenol	<850	* F1	850	740	ug/Kg	☼	03/02/15 16:12	03/06/15 22:59	1
2,4-Dinitrotoluene	<210	F1	210	67	ug/Kg	☼	03/02/15 16:12	03/06/15 22:59	1
2,6-Dinitrotoluene	<210	F1	210	83	ug/Kg	☼	03/02/15 16:12	03/06/15 22:59	1
2-Chloronaphthalene	<210	F1	210	47	ug/Kg	☼	03/02/15 16:12	03/06/15 22:59	1
2-Chlorophenol	<210		210	72	ug/Kg	☼	03/02/15 16:12	03/06/15 22:59	1
<b>2-Methylnaphthalene</b>	<b>8.6</b>	<b>J F1</b>	42	7.8	ug/Kg	☼	03/02/15 16:12	03/06/15 22:59	1
2-Methylphenol	<210		210	68	ug/Kg	☼	03/02/15 16:12	03/06/15 22:59	1
2-Nitroaniline	<210	F1	210	57	ug/Kg	☼	03/02/15 16:12	03/06/15 22:59	1
2-Nitrophenol	<420	F1	420	100	ug/Kg	☼	03/02/15 16:12	03/06/15 22:59	1
3 & 4 Methylphenol	<210		210	70	ug/Kg	☼	03/02/15 16:12	03/06/15 22:59	1
3,3'-Dichlorobenzidine	<210		210	59	ug/Kg	☼	03/02/15 16:12	03/06/15 22:59	1
3-Nitroaniline	<420		420	130	ug/Kg	☼	03/02/15 16:12	03/06/15 22:59	1
4,6-Dinitro-2-methylphenol	<420	* F1	420	340	ug/Kg	☼	03/02/15 16:12	03/06/15 22:59	1
4-Bromophenyl phenyl ether	<210		210	56	ug/Kg	☼	03/02/15 16:12	03/06/15 22:59	1
4-Chloro-3-methylphenol	<420		420	140	ug/Kg	☼	03/02/15 16:12	03/06/15 22:59	1
4-Chloroaniline	<850		850	200	ug/Kg	☼	03/02/15 16:12	03/06/15 22:59	1
4-Chlorophenyl phenyl ether	<210	F1	210	49	ug/Kg	☼	03/02/15 16:12	03/06/15 22:59	1
4-Nitroaniline	<420		420	180	ug/Kg	☼	03/02/15 16:12	03/06/15 22:59	1
4-Nitrophenol	<850		850	400	ug/Kg	☼	03/02/15 16:12	03/06/15 22:59	1
<b>Acenaphthene</b>	<b>91</b>	<b>F1</b>	42	7.6	ug/Kg	☼	03/02/15 16:12	03/06/15 22:59	1
Acenaphthylene	<42	F1	42	5.6	ug/Kg	☼	03/02/15 16:12	03/06/15 22:59	1
<b>Anthracene</b>	<b>230</b>	<b>F1</b>	42	7.0	ug/Kg	☼	03/02/15 16:12	03/06/15 22:59	1
<b>Benzo[a]anthracene</b>	<b>1000</b>		210	28	ug/Kg	☼	03/02/15 16:12	03/10/15 13:06	5
<b>Benzo[a]pyrene</b>	<b>1100</b>		210	41	ug/Kg	☼	03/02/15 16:12	03/10/15 13:06	5
<b>Benzo[b]fluoranthene</b>	<b>1600</b>		210	46	ug/Kg	☼	03/02/15 16:12	03/10/15 13:06	5
<b>Benzo[g,h,i]perylene</b>	<b>1100</b>		210	68	ug/Kg	☼	03/02/15 16:12	03/10/15 13:06	5
<b>Benzo[k]fluoranthene</b>	<b>730</b>		210	62	ug/Kg	☼	03/02/15 16:12	03/10/15 13:06	5
Bis(2-chloroethoxy)methane	<210	F1	210	43	ug/Kg	☼	03/02/15 16:12	03/06/15 22:59	1
Bis(2-chloroethyl)ether	<210		210	63	ug/Kg	☼	03/02/15 16:12	03/06/15 22:59	1
Bis(2-ethylhexyl) phthalate	<1100		1100	390	ug/Kg	☼	03/02/15 16:12	03/10/15 13:06	5
Butyl benzyl phthalate	<210	F1	210	80	ug/Kg	☼	03/02/15 16:12	03/06/15 22:59	1
<b>Carbazole</b>	<b>130</b>	<b>J F1</b>	210	110	ug/Kg	☼	03/02/15 16:12	03/06/15 22:59	1
<b>Chrysene</b>	<b>1300</b>		210	58	ug/Kg	☼	03/02/15 16:12	03/10/15 13:06	5
<b>Dibenz(a,h)anthracene</b>	<b>250</b>		210	41	ug/Kg	☼	03/02/15 16:12	03/10/15 13:06	5
<b>Dibenzofuran</b>	<b>53</b>	<b>J F1</b>	210	49	ug/Kg	☼	03/02/15 16:12	03/06/15 22:59	1
Diethyl phthalate	<210		210	71	ug/Kg	☼	03/02/15 16:12	03/06/15 22:59	1
Dimethyl phthalate	<210	F1	210	55	ug/Kg	☼	03/02/15 16:12	03/06/15 22:59	1
Di-n-butyl phthalate	<210	F1	210	64	ug/Kg	☼	03/02/15 16:12	03/06/15 22:59	1
Di-n-octyl phthalate	<210	F1	210	69	ug/Kg	☼	03/02/15 16:12	03/06/15 22:59	1
<b>Fluoranthene</b>	<b>1100</b>	<b>F1</b>	42	7.8	ug/Kg	☼	03/02/15 16:12	03/06/15 22:59	1
<b>Fluorene</b>	<b>99</b>	<b>F1</b>	42	5.9	ug/Kg	☼	03/02/15 16:12	03/06/15 22:59	1
Hexachlorobenzene	<85	F1	85	9.8	ug/Kg	☼	03/02/15 16:12	03/06/15 22:59	1
Hexachlorobutadiene	<210	F1	210	66	ug/Kg	☼	03/02/15 16:12	03/06/15 22:59	1
Hexachlorocyclopentadiene	<850	F1	850	240	ug/Kg	☼	03/02/15 16:12	03/06/15 22:59	1
Hexachloroethane	<210	F1	210	64	ug/Kg	☼	03/02/15 16:12	03/06/15 22:59	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Niles and Glenview - WO 011

TestAmerica Job ID: 500-92697-1

**Client Sample ID: GD-1(0-1)-022615**

**Lab Sample ID: 500-92697-7**

Date Collected: 02/26/15 11:25

Matrix: Solid

Date Received: 02/27/15 12:30

Percent Solids: 77.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Indeno[1,2,3-cd]pyrene</b>	<b>920</b>		210	55	ug/Kg	☼	03/02/15 16:12	03/10/15 13:06	5
Isophorone	<210	F1	210	47	ug/Kg	☼	03/02/15 16:12	03/06/15 22:59	1
<b>Naphthalene</b>	<b>21</b>	<b>J F1</b>	42	6.5	ug/Kg	☼	03/02/15 16:12	03/06/15 22:59	1
Nitrobenzene	<42	F1	42	11	ug/Kg	☼	03/02/15 16:12	03/06/15 22:59	1
N-Nitrosodi-n-propylamine	<210		210	52	ug/Kg	☼	03/02/15 16:12	03/06/15 22:59	1
N-Nitrosodiphenylamine	<210		210	50	ug/Kg	☼	03/02/15 16:12	03/06/15 22:59	1
Pentachlorophenol	<850	F1	850	680	ug/Kg	☼	03/02/15 16:12	03/06/15 22:59	1
<b>Phenanthrene</b>	<b>1200</b>	<b>F1</b>	42	5.9	ug/Kg	☼	03/02/15 16:12	03/06/15 22:59	1
Phenol	<210		210	94	ug/Kg	☼	03/02/15 16:12	03/06/15 22:59	1
<b>Pyrene</b>	<b>2300</b>		210	42	ug/Kg	☼	03/02/15 16:12	03/10/15 13:06	5
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>2,4,6-Tribromophenol</i>	25	X	35 - 137				03/02/15 16:12	03/06/15 22:59	1
<i>2,4,6-Tribromophenol</i>	35		35 - 137				03/02/15 16:12	03/10/15 13:06	5
<i>2-Fluorobiphenyl</i>	29		25 - 119				03/02/15 16:12	03/06/15 22:59	1
<i>2-Fluorobiphenyl</i>	38		25 - 119				03/02/15 16:12	03/10/15 13:06	5
<i>2-Fluorophenol</i>	44		25 - 110				03/02/15 16:12	03/06/15 22:59	1
<i>2-Fluorophenol</i>	34		25 - 110				03/02/15 16:12	03/10/15 13:06	5
<i>Nitrobenzene-d5</i>	24	X	25 - 115				03/02/15 16:12	03/06/15 22:59	1
<i>Nitrobenzene-d5</i>	29		25 - 115				03/02/15 16:12	03/10/15 13:06	5
<i>Phenol-d5</i>	55		31 - 110				03/02/15 16:12	03/06/15 22:59	1
<i>Phenol-d5</i>	39		31 - 110				03/02/15 16:12	03/10/15 13:06	5
<i>Terphenyl-d14</i>	132		36 - 134				03/02/15 16:12	03/06/15 22:59	1
<i>Terphenyl-d14</i>	50		36 - 134				03/02/15 16:12	03/10/15 13:06	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/06/15 09:10	03/06/15 18:01	1
<b>Barium</b>	<b>0.33</b>	<b>J</b>	0.50	0.050	mg/L		03/06/15 09:10	03/06/15 18:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/15 09:10	03/06/15 18:01	1
<b>Cadmium</b>	<b>0.0023</b>	<b>J</b>	0.0050	0.0020	mg/L		03/06/15 09:10	03/06/15 18:01	1
Chromium	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:01	1
Cobalt	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:01	1
<b>Copper</b>	<b>0.034</b>		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:01	1
<b>Iron</b>	<b>0.22</b>		0.20	0.20	mg/L		03/06/15 09:10	03/06/15 18:01	1
<b>Lead</b>	<b>0.0083</b>		0.0075	0.0075	mg/L		03/06/15 09:10	03/06/15 18:01	1
<b>Manganese</b>	<b>0.31</b>		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:01	1
Nickel	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:01	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/15 09:10	03/06/15 18:01	1
Silver	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:01	1
<b>Zinc</b>	<b>0.066</b>	<b>J</b>	0.10	0.020	mg/L		03/06/15 09:10	03/06/15 18:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.027</b>	<b>J</b>	0.050	0.010	mg/L		03/06/15 09:10	03/06/15 18:52	1
<b>Barium</b>	<b>0.37</b>	<b>J</b>	0.50	0.050	mg/L		03/06/15 09:10	03/06/15 18:52	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/15 09:10	03/06/15 18:52	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/06/15 09:10	03/06/15 18:52	1
<b>Chromium</b>	<b>0.099</b>		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:52	1
<b>Cobalt</b>	<b>0.020</b>	<b>J</b>	0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:52	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Niles and Glenview - WO 011

TestAmerica Job ID: 500-92697-1

**Client Sample ID: GD-1(0-1)-022615**

**Lab Sample ID: 500-92697-7**

Date Collected: 02/26/15 11:25

Matrix: Solid

Date Received: 02/27/15 12:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.096		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:52	1
Iron	75		0.20	0.20	mg/L		03/06/15 09:10	03/06/15 18:52	1
Lead	0.10		0.0075	0.0075	mg/L		03/06/15 09:10	03/07/15 21:40	1
Manganese	0.32		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:52	1
Nickel	0.082		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:52	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/15 09:10	03/06/15 18:52	1
Silver	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:52	1
Zinc	0.25		0.10	0.020	mg/L		03/06/15 09:10	03/06/15 18:52	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.1	J B	1.3	0.26	mg/Kg	☼	03/02/15 09:51	03/04/15 04:24	1
Arsenic	6.6		0.63	0.29	mg/Kg	☼	03/02/15 09:51	03/04/15 04:24	1
Barium	95		0.63	0.11	mg/Kg	☼	03/02/15 09:51	03/04/15 04:24	1
Beryllium	1.0		0.25	0.054	mg/Kg	☼	03/02/15 09:51	03/04/15 04:24	1
Cadmium	0.12	J	0.13	0.036	mg/Kg	☼	03/02/15 09:51	03/04/15 04:24	1
Calcium	23000		13	4.0	mg/Kg	☼	03/02/15 09:51	03/04/15 04:24	1
Chromium	27		0.63	0.11	mg/Kg	☼	03/02/15 09:51	03/04/15 04:24	1
Cobalt	10		0.31	0.071	mg/Kg	☼	03/02/15 09:51	03/04/15 04:24	1
Copper	23		0.63	0.14	mg/Kg	☼	03/02/15 09:51	03/04/15 04:24	1
Iron	23000		13	4.8	mg/Kg	☼	03/02/15 09:51	03/04/15 04:24	1
Lead	62		0.31	0.16	mg/Kg	☼	03/02/15 09:51	03/04/15 04:24	1
Magnesium	15000		6.3	2.5	mg/Kg	☼	03/02/15 09:51	03/04/15 04:24	1
Manganese	370		0.63	0.12	mg/Kg	☼	03/02/15 09:51	03/04/15 04:24	1
Nickel	27		0.63	0.17	mg/Kg	☼	03/02/15 09:51	03/04/15 04:24	1
Potassium	2600		31	5.1	mg/Kg	☼	03/02/15 09:51	03/05/15 01:43	1
Selenium	0.83		0.63	0.31	mg/Kg	☼	03/02/15 09:51	03/04/15 04:24	1
Silver	0.078	J	0.31	0.073	mg/Kg	☼	03/02/15 09:51	03/04/15 04:24	1
Sodium	280		63	8.3	mg/Kg	☼	03/02/15 09:51	03/05/15 01:43	1
Thallium	1.3		0.63	0.31	mg/Kg	☼	03/02/15 09:51	03/04/15 04:24	1
Vanadium	27		0.31	0.091	mg/Kg	☼	03/02/15 09:51	03/05/15 01:43	1
Zinc	68		1.3	0.40	mg/Kg	☼	03/02/15 09:51	03/04/15 04:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/06/15 12:00	03/06/15 17:24	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		03/06/15 12:00	03/06/15 16:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	40		21	7.2	ug/Kg	☼	03/02/15 15:30	03/03/15 11:44	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.51		0.200	0.200	SU			03/03/15 13:20	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Niles and Glenview - WO 011

TestAmerica Job ID: 500-92697-1

**Client Sample ID: GD-2(0-7)-022615**

**Lab Sample ID: 500-92697-9**

**Date Collected: 02/26/15 13:40**

**Matrix: Solid**

**Date Received: 02/27/15 12:30**

**Percent Solids: 79.2**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<6.3		6.3	2.7	ug/Kg	☼		03/03/15 18:41	1
Benzene	<6.3		6.3	0.87	ug/Kg	☼		03/03/15 18:41	1
Bromodichloromethane	<6.3		6.3	1.1	ug/Kg	☼		03/03/15 18:41	1
Bromoform	<6.3		6.3	1.5	ug/Kg	☼		03/03/15 18:41	1
Bromomethane	<6.3		6.3	1.9	ug/Kg	☼		03/03/15 18:41	1
Carbon disulfide	<6.3		6.3	0.94	ug/Kg	☼		03/03/15 18:41	1
Carbon tetrachloride	<6.3	*	6.3	1.1	ug/Kg	☼		03/03/15 18:41	1
Chlorobenzene	<6.3		6.3	0.64	ug/Kg	☼		03/03/15 18:41	1
Chloroethane	<6.3		6.3	1.7	ug/Kg	☼		03/03/15 18:41	1
Chloroform	<6.3		6.3	0.73	ug/Kg	☼		03/03/15 18:41	1
Chloromethane	<6.3		6.3	1.3	ug/Kg	☼		03/03/15 18:41	1
cis-1,2-Dichloroethene	<6.3		6.3	0.89	ug/Kg	☼		03/03/15 18:41	1
cis-1,3-Dichloropropene	<6.3		6.3	0.83	ug/Kg	☼		03/03/15 18:41	1
Dibromochloromethane	<6.3		6.3	1.1	ug/Kg	☼		03/03/15 18:41	1
1,1-Dichloroethane	<6.3		6.3	1.0	ug/Kg	☼		03/03/15 18:41	1
1,2-Dichloroethane	<6.3		6.3	0.94	ug/Kg	☼		03/03/15 18:41	1
1,1-Dichloroethene	<6.3		6.3	1.0	ug/Kg	☼		03/03/15 18:41	1
1,2-Dichloropropane	<6.3		6.3	0.96	ug/Kg	☼		03/03/15 18:41	1
1,3-Dichloropropene, Total	<6.3		6.3	0.83	ug/Kg	☼		03/03/15 18:41	1
Ethylbenzene	<6.3		6.3	1.3	ug/Kg	☼		03/03/15 18:41	1
2-Hexanone	<6.3		6.3	1.8	ug/Kg	☼		03/03/15 18:41	1
Methylene Chloride	<6.3		6.3	1.7	ug/Kg	☼		03/03/15 18:41	1
Methyl Ethyl Ketone	<6.3		6.3	2.3	ug/Kg	☼		03/03/15 18:41	1
methyl isobutyl ketone	<6.3		6.3	1.7	ug/Kg	☼		03/03/15 18:41	1
Methyl tert-butyl ether	<6.3		6.3	1.0	ug/Kg	☼		03/03/15 18:41	1
Styrene	<6.3		6.3	0.83	ug/Kg	☼		03/03/15 18:41	1
1,1,2,2-Tetrachloroethane	<6.3		6.3	1.3	ug/Kg	☼		03/03/15 18:41	1
Tetrachloroethene	<6.3		6.3	0.97	ug/Kg	☼		03/03/15 18:41	1
Toluene	<6.3		6.3	0.88	ug/Kg	☼		03/03/15 18:41	1
trans-1,2-Dichloroethene	<6.3		6.3	0.87	ug/Kg	☼		03/03/15 18:41	1
trans-1,3-Dichloropropene	<6.3		6.3	1.1	ug/Kg	☼		03/03/15 18:41	1
1,1,1-Trichloroethane	<6.3		6.3	0.94	ug/Kg	☼		03/03/15 18:41	1
1,1,2-Trichloroethane	<6.3		6.3	0.86	ug/Kg	☼		03/03/15 18:41	1
Trichloroethene	<6.3		6.3	1.0	ug/Kg	☼		03/03/15 18:41	1
Vinyl chloride	<6.3		6.3	1.3	ug/Kg	☼		03/03/15 18:41	1
Xylenes, Total	<13		13	0.57	ug/Kg	☼		03/03/15 18:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 122		03/03/15 18:41	1
Dibromofluoromethane	85		75 - 120		03/03/15 18:41	1
1,2-Dichloroethane-d4 (Surr)	74		70 - 134		03/03/15 18:41	1
Toluene-d8 (Surr)	102		75 - 122		03/03/15 18:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<200		200	43	ug/Kg	☼	03/02/15 16:12	03/06/15 23:49	1
1,2-Dichlorobenzene	<200		200	48	ug/Kg	☼	03/02/15 16:12	03/06/15 23:49	1
1,3-Dichlorobenzene	<200		200	45	ug/Kg	☼	03/02/15 16:12	03/06/15 23:49	1
1,4-Dichlorobenzene	<200		200	52	ug/Kg	☼	03/02/15 16:12	03/06/15 23:49	1
2,2'-oxybis[1-chloropropane]	<200		200	47	ug/Kg	☼	03/02/15 16:12	03/06/15 23:49	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Niles and Glenview - WO 011

TestAmerica Job ID: 500-92697-1

**Client Sample ID: GD-2(0-7)-022615**

**Lab Sample ID: 500-92697-9**

**Date Collected: 02/26/15 13:40**

**Matrix: Solid**

**Date Received: 02/27/15 12:30**

**Percent Solids: 79.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<400		400	92	ug/Kg	☼	03/02/15 16:12	03/06/15 23:49	1
2,4,6-Trichlorophenol	<400		400	140	ug/Kg	☼	03/02/15 16:12	03/06/15 23:49	1
2,4-Dichlorophenol	<400		400	95	ug/Kg	☼	03/02/15 16:12	03/06/15 23:49	1
2,4-Dimethylphenol	<400		400	150	ug/Kg	☼	03/02/15 16:12	03/06/15 23:49	1
2,4-Dinitrophenol	<810	*	810	710	ug/Kg	☼	03/02/15 16:12	03/06/15 23:49	1
2,4-Dinitrotoluene	<200		200	64	ug/Kg	☼	03/02/15 16:12	03/06/15 23:49	1
2,6-Dinitrotoluene	<200		200	79	ug/Kg	☼	03/02/15 16:12	03/06/15 23:49	1
2-Chloronaphthalene	<200		200	44	ug/Kg	☼	03/02/15 16:12	03/06/15 23:49	1
2-Chlorophenol	<200		200	69	ug/Kg	☼	03/02/15 16:12	03/06/15 23:49	1
2-Methylnaphthalene	<40		40	7.4	ug/Kg	☼	03/02/15 16:12	03/06/15 23:49	1
2-Methylphenol	<200		200	64	ug/Kg	☼	03/02/15 16:12	03/06/15 23:49	1
2-Nitroaniline	<200		200	54	ug/Kg	☼	03/02/15 16:12	03/06/15 23:49	1
2-Nitrophenol	<400		400	95	ug/Kg	☼	03/02/15 16:12	03/06/15 23:49	1
3 & 4 Methylphenol	<200		200	67	ug/Kg	☼	03/02/15 16:12	03/06/15 23:49	1
3,3'-Dichlorobenzidine	<200		200	56	ug/Kg	☼	03/02/15 16:12	03/06/15 23:49	1
3-Nitroaniline	<400		400	120	ug/Kg	☼	03/02/15 16:12	03/06/15 23:49	1
4,6-Dinitro-2-methylphenol	<400	*	400	320	ug/Kg	☼	03/02/15 16:12	03/06/15 23:49	1
4-Bromophenyl phenyl ether	<200		200	53	ug/Kg	☼	03/02/15 16:12	03/06/15 23:49	1
4-Chloro-3-methylphenol	<400		400	140	ug/Kg	☼	03/02/15 16:12	03/06/15 23:49	1
4-Chloroaniline	<810		810	190	ug/Kg	☼	03/02/15 16:12	03/06/15 23:49	1
4-Chlorophenyl phenyl ether	<200		200	47	ug/Kg	☼	03/02/15 16:12	03/06/15 23:49	1
4-Nitroaniline	<400		400	170	ug/Kg	☼	03/02/15 16:12	03/06/15 23:49	1
4-Nitrophenol	<810		810	380	ug/Kg	☼	03/02/15 16:12	03/06/15 23:49	1
Acenaphthene	<40		40	7.2	ug/Kg	☼	03/02/15 16:12	03/06/15 23:49	1
Acenaphthylene	<40		40	5.3	ug/Kg	☼	03/02/15 16:12	03/06/15 23:49	1
Anthracene	<40		40	6.7	ug/Kg	☼	03/02/15 16:12	03/06/15 23:49	1
<b>Benzo[a]anthracene</b>	<b>27</b>	<b>J</b>	40	5.4	ug/Kg	☼	03/02/15 16:12	03/06/15 23:49	1
<b>Benzo[a]pyrene</b>	<b>27</b>	<b>J</b>	40	7.8	ug/Kg	☼	03/02/15 16:12	03/06/15 23:49	1
<b>Benzo[b]fluoranthene</b>	<b>39</b>	<b>J</b>	40	8.7	ug/Kg	☼	03/02/15 16:12	03/06/15 23:49	1
<b>Benzo[g,h,i]perylene</b>	<b>32</b>	<b>J</b>	40	13	ug/Kg	☼	03/02/15 16:12	03/06/15 23:49	1
<b>Benzo[k]fluoranthene</b>	<b>19</b>	<b>J</b>	40	12	ug/Kg	☼	03/02/15 16:12	03/06/15 23:49	1
Bis(2-chloroethoxy)methane	<200		200	41	ug/Kg	☼	03/02/15 16:12	03/06/15 23:49	1
Bis(2-chloroethyl)ether	<200		200	60	ug/Kg	☼	03/02/15 16:12	03/06/15 23:49	1
Bis(2-ethylhexyl) phthalate	<200		200	73	ug/Kg	☼	03/02/15 16:12	03/06/15 23:49	1
Butyl benzyl phthalate	<200		200	76	ug/Kg	☼	03/02/15 16:12	03/06/15 23:49	1
Carbazole	<200		200	100	ug/Kg	☼	03/02/15 16:12	03/06/15 23:49	1
<b>Chrysene</b>	<b>39</b>	<b>J</b>	40	11	ug/Kg	☼	03/02/15 16:12	03/06/15 23:49	1
<b>Dibenz(a,h)anthracene</b>	<b>9.1</b>	<b>J</b>	40	7.8	ug/Kg	☼	03/02/15 16:12	03/06/15 23:49	1
Dibenzofuran	<200		200	47	ug/Kg	☼	03/02/15 16:12	03/06/15 23:49	1
Diethyl phthalate	<200		200	68	ug/Kg	☼	03/02/15 16:12	03/06/15 23:49	1
Dimethyl phthalate	<200		200	52	ug/Kg	☼	03/02/15 16:12	03/06/15 23:49	1
Di-n-butyl phthalate	<200		200	61	ug/Kg	☼	03/02/15 16:12	03/06/15 23:49	1
Di-n-octyl phthalate	<200		200	66	ug/Kg	☼	03/02/15 16:12	03/06/15 23:49	1
<b>Fluoranthene</b>	<b>52</b>		40	7.4	ug/Kg	☼	03/02/15 16:12	03/06/15 23:49	1
Fluorene	<40		40	5.6	ug/Kg	☼	03/02/15 16:12	03/06/15 23:49	1
Hexachlorobenzene	<81		81	9.3	ug/Kg	☼	03/02/15 16:12	03/06/15 23:49	1
Hexachlorobutadiene	<200		200	63	ug/Kg	☼	03/02/15 16:12	03/06/15 23:49	1
Hexachlorocyclopentadiene	<810		810	230	ug/Kg	☼	03/02/15 16:12	03/06/15 23:49	1
Hexachloroethane	<200		200	61	ug/Kg	☼	03/02/15 16:12	03/06/15 23:49	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - Niles and Glenview - WO 011

TestAmerica Job ID: 500-92697-1

**Client Sample ID: GD-2(0-7)-022615**

**Lab Sample ID: 500-92697-9**

**Date Collected: 02/26/15 13:40**

**Matrix: Solid**

**Date Received: 02/27/15 12:30**

**Percent Solids: 79.2**

**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>22</b>	<b>J</b>	40	10	ug/Kg	☼	03/02/15 16:12	03/06/15 23:49	1
Isophorone	<200		200	45	ug/Kg	☼	03/02/15 16:12	03/06/15 23:49	1
Naphthalene	<40		40	6.2	ug/Kg	☼	03/02/15 16:12	03/06/15 23:49	1
Nitrobenzene	<40		40	10	ug/Kg	☼	03/02/15 16:12	03/06/15 23:49	1
N-Nitrosodi-n-propylamine	<200		200	49	ug/Kg	☼	03/02/15 16:12	03/06/15 23:49	1
N-Nitrosodiphenylamine	<200		200	47	ug/Kg	☼	03/02/15 16:12	03/06/15 23:49	1
Pentachlorophenol	<810		810	640	ug/Kg	☼	03/02/15 16:12	03/06/15 23:49	1
<b>Phenanthrene</b>	<b>24</b>	<b>J</b>	40	5.6	ug/Kg	☼	03/02/15 16:12	03/06/15 23:49	1
Phenol	<200		200	89	ug/Kg	☼	03/02/15 16:12	03/06/15 23:49	1
<b>Pyrene</b>	<b>55</b>		40	8.0	ug/Kg	☼	03/02/15 16:12	03/06/15 23:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	48		35 - 137				03/02/15 16:12	03/06/15 23:49	1
2-Fluorobiphenyl	48		25 - 119				03/02/15 16:12	03/06/15 23:49	1
2-Fluorophenol	41		25 - 110				03/02/15 16:12	03/06/15 23:49	1
Nitrobenzene-d5	37		25 - 115				03/02/15 16:12	03/06/15 23:49	1
Phenol-d5	46		31 - 110				03/02/15 16:12	03/06/15 23:49	1
Terphenyl-d14	67		36 - 134				03/02/15 16:12	03/06/15 23:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/06/15 09:10	03/06/15 18:11	1
<b>Barium</b>	<b>0.24</b>	<b>J</b>	0.50	0.050	mg/L		03/06/15 09:10	03/06/15 18:11	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/15 09:10	03/06/15 18:11	1
<b>Cadmium</b>	<b>0.0024</b>	<b>J</b>	0.0050	0.0020	mg/L		03/06/15 09:10	03/06/15 18:11	1
Chromium	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:11	1
Cobalt	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:11	1
<b>Copper</b>	<b>0.015</b>	<b>J</b>	0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:11	1
Iron	<0.20		0.20	0.20	mg/L		03/06/15 09:10	03/06/15 18:11	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/06/15 09:10	03/06/15 18:11	1
<b>Manganese</b>	<b>0.43</b>		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:11	1
Nickel	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:11	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/15 09:10	03/06/15 18:11	1
Silver	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:11	1
<b>Zinc</b>	<b>0.031</b>	<b>J</b>	0.10	0.020	mg/L		03/06/15 09:10	03/06/15 18:11	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		03/06/15 09:10	03/06/15 18:59	1
Barium	<0.50		0.50	0.050	mg/L		03/06/15 09:10	03/06/15 18:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/15 09:10	03/06/15 18:59	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/06/15 09:10	03/06/15 18:59	1
Chromium	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:59	1
Cobalt	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:59	1
<b>Copper</b>	<b>0.044</b>		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:59	1
<b>Iron</b>	<b>0.31</b>		0.20	0.20	mg/L		03/06/15 09:10	03/06/15 18:59	1
<b>Lead</b>	<b>0.0085</b>		0.0075	0.0075	mg/L		03/06/15 09:10	03/06/15 18:59	1
Manganese	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:59	1
Nickel	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:59	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/15 09:10	03/06/15 18:59	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Niles and Glenview - WO 011

TestAmerica Job ID: 500-92697-1

**Client Sample ID: GD-2(0-7)-022615**

**Lab Sample ID: 500-92697-9**

Date Collected: 02/26/15 13:40

Matrix: Solid

Date Received: 02/27/15 12:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:59	1
Zinc	0.052	J	0.10	0.020	mg/L		03/06/15 09:10	03/06/15 18:59	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.1	J B	1.2	0.24	mg/Kg	⊛	03/02/15 09:51	03/04/15 04:37	1
Arsenic	7.1		0.59	0.27	mg/Kg	⊛	03/02/15 09:51	03/04/15 04:37	1
Barium	84		0.59	0.11	mg/Kg	⊛	03/02/15 09:51	03/04/15 04:37	1
Beryllium	1.0		0.24	0.051	mg/Kg	⊛	03/02/15 09:51	03/04/15 04:37	1
Cadmium	0.083	J	0.12	0.034	mg/Kg	⊛	03/02/15 09:51	03/04/15 04:37	1
Calcium	21000		12	3.8	mg/Kg	⊛	03/02/15 09:51	03/04/15 04:37	1
Chromium	27		0.59	0.10	mg/Kg	⊛	03/02/15 09:51	03/04/15 04:37	1
Cobalt	12		0.29	0.066	mg/Kg	⊛	03/02/15 09:51	03/04/15 04:37	1
Copper	24		0.59	0.13	mg/Kg	⊛	03/02/15 09:51	03/04/15 04:37	1
Iron	24000		12	4.5	mg/Kg	⊛	03/02/15 09:51	03/04/15 04:37	1
Lead	160		0.29	0.15	mg/Kg	⊛	03/02/15 09:51	03/04/15 04:37	1
Magnesium	15000		5.9	2.4	mg/Kg	⊛	03/02/15 09:51	03/04/15 04:37	1
Manganese	290		0.59	0.12	mg/Kg	⊛	03/02/15 09:51	03/04/15 04:37	1
Nickel	32		0.59	0.16	mg/Kg	⊛	03/02/15 09:51	03/04/15 04:37	1
Potassium	2600		29	4.8	mg/Kg	⊛	03/02/15 09:51	03/05/15 02:01	1
Selenium	0.91		0.59	0.29	mg/Kg	⊛	03/02/15 09:51	03/04/15 04:37	1
Silver	<0.29		0.29	0.069	mg/Kg	⊛	03/02/15 09:51	03/04/15 04:37	1
Sodium	400		59	7.8	mg/Kg	⊛	03/02/15 09:51	03/05/15 02:01	1
Thallium	1.3		0.59	0.29	mg/Kg	⊛	03/02/15 09:51	03/04/15 04:37	1
Vanadium	26		0.29	0.086	mg/Kg	⊛	03/02/15 09:51	03/05/15 02:01	1
Zinc	77		1.2	0.37	mg/Kg	⊛	03/02/15 09:51	03/04/15 04:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/06/15 12:00	03/06/15 17:32	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		03/06/15 12:00	03/06/15 16:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	35		20	6.9	ug/Kg	⊛	03/02/15 15:30	03/03/15 11:48	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.04		0.200	0.200	SU			03/03/15 13:27	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Niles and Glenview - WO 011

TestAmerica Job ID: 500-92697-1

**Client Sample ID: GD-2(7-15)-022615**

**Lab Sample ID: 500-92697-10**

**Date Collected: 02/26/15 13:45**

**Matrix: Solid**

**Date Received: 02/27/15 12:30**

**Percent Solids: 81.5**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	11		6.1	2.7	ug/Kg	☼		03/03/15 19:06	1
Benzene	<6.1		6.1	0.84	ug/Kg	☼		03/03/15 19:06	1
Bromodichloromethane	<6.1		6.1	1.1	ug/Kg	☼		03/03/15 19:06	1
Bromoform	<6.1		6.1	1.4	ug/Kg	☼		03/03/15 19:06	1
Bromomethane	<6.1		6.1	1.9	ug/Kg	☼		03/03/15 19:06	1
Carbon disulfide	<6.1		6.1	0.92	ug/Kg	☼		03/03/15 19:06	1
Carbon tetrachloride	<6.1 *		6.1	1.1	ug/Kg	☼		03/03/15 19:06	1
Chlorobenzene	<6.1		6.1	0.62	ug/Kg	☼		03/03/15 19:06	1
Chloroethane	<6.1		6.1	1.7	ug/Kg	☼		03/03/15 19:06	1
Chloroform	<6.1		6.1	0.71	ug/Kg	☼		03/03/15 19:06	1
Chloromethane	<6.1		6.1	1.3	ug/Kg	☼		03/03/15 19:06	1
cis-1,2-Dichloroethene	<6.1		6.1	0.87	ug/Kg	☼		03/03/15 19:06	1
cis-1,3-Dichloropropene	<6.1		6.1	0.81	ug/Kg	☼		03/03/15 19:06	1
Dibromochloromethane	<6.1		6.1	1.1	ug/Kg	☼		03/03/15 19:06	1
1,1-Dichloroethane	<6.1		6.1	0.97	ug/Kg	☼		03/03/15 19:06	1
1,2-Dichloroethane	<6.1		6.1	0.91	ug/Kg	☼		03/03/15 19:06	1
1,1-Dichloroethene	<6.1		6.1	0.99	ug/Kg	☼		03/03/15 19:06	1
1,2-Dichloropropane	<6.1		6.1	0.93	ug/Kg	☼		03/03/15 19:06	1
1,3-Dichloropropene, Total	<6.1		6.1	0.81	ug/Kg	☼		03/03/15 19:06	1
Ethylbenzene	<6.1		6.1	1.2	ug/Kg	☼		03/03/15 19:06	1
2-Hexanone	<6.1		6.1	1.8	ug/Kg	☼		03/03/15 19:06	1
Methylene Chloride	<6.1		6.1	1.7	ug/Kg	☼		03/03/15 19:06	1
Methyl Ethyl Ketone	<6.1		6.1	2.2	ug/Kg	☼		03/03/15 19:06	1
methyl isobutyl ketone	<6.1		6.1	1.6	ug/Kg	☼		03/03/15 19:06	1
Methyl tert-butyl ether	<6.1		6.1	1.0	ug/Kg	☼		03/03/15 19:06	1
Styrene	<6.1		6.1	0.81	ug/Kg	☼		03/03/15 19:06	1
1,1,1,2-Tetrachloroethane	<6.1		6.1	1.2	ug/Kg	☼		03/03/15 19:06	1
Tetrachloroethene	<6.1		6.1	0.94	ug/Kg	☼		03/03/15 19:06	1
Toluene	<6.1		6.1	0.86	ug/Kg	☼		03/03/15 19:06	1
trans-1,2-Dichloroethene	<6.1		6.1	0.84	ug/Kg	☼		03/03/15 19:06	1
trans-1,3-Dichloropropene	<6.1		6.1	1.1	ug/Kg	☼		03/03/15 19:06	1
1,1,1-Trichloroethane	<6.1		6.1	0.92	ug/Kg	☼		03/03/15 19:06	1
1,1,2-Trichloroethane	<6.1		6.1	0.84	ug/Kg	☼		03/03/15 19:06	1
Trichloroethene	<6.1		6.1	1.0	ug/Kg	☼		03/03/15 19:06	1
Vinyl chloride	<6.1		6.1	1.3	ug/Kg	☼		03/03/15 19:06	1
Xylenes, Total	<12		12	0.56	ug/Kg	☼		03/03/15 19:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 122		03/03/15 19:06	1
Dibromofluoromethane	82		75 - 120		03/03/15 19:06	1
1,2-Dichloroethane-d4 (Surr)	73		70 - 134		03/03/15 19:06	1
Toluene-d8 (Surr)	101		75 - 122		03/03/15 19:06	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	☼	03/02/15 16:12	03/10/15 13:30	1
1,2-Dichlorobenzene	<200		200	48	ug/Kg	☼	03/02/15 16:12	03/10/15 13:30	1
1,3-Dichlorobenzene	<200		200	45	ug/Kg	☼	03/02/15 16:12	03/10/15 13:30	1
1,4-Dichlorobenzene	<200		200	52	ug/Kg	☼	03/02/15 16:12	03/10/15 13:30	1
2,2'-oxybis[1-chloropropane]	<200		200	47	ug/Kg	☼	03/02/15 16:12	03/10/15 13:30	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - Niles and Glenview - WO 011

TestAmerica Job ID: 500-92697-1

**Client Sample ID: GD-2(7-15)-022615**

**Lab Sample ID: 500-92697-10**

**Date Collected: 02/26/15 13:45**

**Matrix: Solid**

**Date Received: 02/27/15 12:30**

**Percent Solids: 81.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<400		400	92	ug/Kg	☼	03/02/15 16:12	03/10/15 13:30	1
2,4,6-Trichlorophenol	<400		400	140	ug/Kg	☼	03/02/15 16:12	03/10/15 13:30	1
2,4-Dichlorophenol	<400		400	96	ug/Kg	☼	03/02/15 16:12	03/10/15 13:30	1
2,4-Dimethylphenol	<400		400	150	ug/Kg	☼	03/02/15 16:12	03/10/15 13:30	1
2,4-Dinitrophenol	<810	*	810	710	ug/Kg	☼	03/02/15 16:12	03/10/15 13:30	1
2,4-Dinitrotoluene	<200		200	64	ug/Kg	☼	03/02/15 16:12	03/10/15 13:30	1
2,6-Dinitrotoluene	<200		200	79	ug/Kg	☼	03/02/15 16:12	03/10/15 13:30	1
2-Chloronaphthalene	<200		200	45	ug/Kg	☼	03/02/15 16:12	03/10/15 13:30	1
2-Chlorophenol	<200		200	69	ug/Kg	☼	03/02/15 16:12	03/10/15 13:30	1
<b>2-Methylnaphthalene</b>	<b>31</b>	<b>J</b>	40	7.4	ug/Kg	☼	03/02/15 16:12	03/10/15 13:30	1
2-Methylphenol	<200		200	65	ug/Kg	☼	03/02/15 16:12	03/10/15 13:30	1
2-Nitroaniline	<200		200	54	ug/Kg	☼	03/02/15 16:12	03/10/15 13:30	1
2-Nitrophenol	<400		400	95	ug/Kg	☼	03/02/15 16:12	03/10/15 13:30	1
3 & 4 Methylphenol	<200		200	67	ug/Kg	☼	03/02/15 16:12	03/10/15 13:30	1
3,3'-Dichlorobenzidine	<200		200	57	ug/Kg	☼	03/02/15 16:12	03/10/15 13:30	1
3-Nitroaniline	<400		400	130	ug/Kg	☼	03/02/15 16:12	03/10/15 13:30	1
4,6-Dinitro-2-methylphenol	<400	*	400	320	ug/Kg	☼	03/02/15 16:12	03/10/15 13:30	1
4-Bromophenyl phenyl ether	<200		200	53	ug/Kg	☼	03/02/15 16:12	03/10/15 13:30	1
4-Chloro-3-methylphenol	<400		400	140	ug/Kg	☼	03/02/15 16:12	03/10/15 13:30	1
4-Chloroaniline	<810		810	190	ug/Kg	☼	03/02/15 16:12	03/10/15 13:30	1
4-Chlorophenyl phenyl ether	<200		200	47	ug/Kg	☼	03/02/15 16:12	03/10/15 13:30	1
4-Nitroaniline	<400		400	170	ug/Kg	☼	03/02/15 16:12	03/10/15 13:30	1
4-Nitrophenol	<810		810	380	ug/Kg	☼	03/02/15 16:12	03/10/15 13:30	1
Acenaphthene	<40		40	7.3	ug/Kg	☼	03/02/15 16:12	03/10/15 13:30	1
Acenaphthylene	<40		40	5.3	ug/Kg	☼	03/02/15 16:12	03/10/15 13:30	1
Anthracene	<40		40	6.7	ug/Kg	☼	03/02/15 16:12	03/10/15 13:30	1
Benzo[a]anthracene	<40		40	5.4	ug/Kg	☼	03/02/15 16:12	03/10/15 13:30	1
Benzo[a]pyrene	<40		40	7.8	ug/Kg	☼	03/02/15 16:12	03/10/15 13:30	1
Benzo[b]fluoranthene	<40		40	8.7	ug/Kg	☼	03/02/15 16:12	03/10/15 13:30	1
<b>Benzo[g,h,i]perylene</b>	<b>26</b>	<b>J</b>	40	13	ug/Kg	☼	03/02/15 16:12	03/10/15 13:30	1
Benzo[k]fluoranthene	<40		40	12	ug/Kg	☼	03/02/15 16:12	03/10/15 13:30	1
Bis(2-chloroethoxy)methane	<200		200	41	ug/Kg	☼	03/02/15 16:12	03/10/15 13:30	1
Bis(2-chloroethyl)ether	<200		200	61	ug/Kg	☼	03/02/15 16:12	03/10/15 13:30	1
Bis(2-ethylhexyl) phthalate	<200		200	74	ug/Kg	☼	03/02/15 16:12	03/10/15 13:30	1
Butyl benzyl phthalate	<200		200	77	ug/Kg	☼	03/02/15 16:12	03/10/15 13:30	1
Carbazole	<200		200	100	ug/Kg	☼	03/02/15 16:12	03/10/15 13:30	1
<b>Chrysene</b>	<b>18</b>	<b>J</b>	40	11	ug/Kg	☼	03/02/15 16:12	03/10/15 13:30	1
Dibenz(a,h)anthracene	<40		40	7.8	ug/Kg	☼	03/02/15 16:12	03/10/15 13:30	1
Dibenzofuran	<200		200	47	ug/Kg	☼	03/02/15 16:12	03/10/15 13:30	1
Diethyl phthalate	<200		200	68	ug/Kg	☼	03/02/15 16:12	03/10/15 13:30	1
Dimethyl phthalate	<200		200	53	ug/Kg	☼	03/02/15 16:12	03/10/15 13:30	1
Di-n-butyl phthalate	<200		200	62	ug/Kg	☼	03/02/15 16:12	03/10/15 13:30	1
Di-n-octyl phthalate	<200		200	66	ug/Kg	☼	03/02/15 16:12	03/10/15 13:30	1
Fluoranthene	<40		40	7.5	ug/Kg	☼	03/02/15 16:12	03/10/15 13:30	1
Fluorene	<40		40	5.7	ug/Kg	☼	03/02/15 16:12	03/10/15 13:30	1
Hexachlorobenzene	<81		81	9.4	ug/Kg	☼	03/02/15 16:12	03/10/15 13:30	1
Hexachlorobutadiene	<200		200	63	ug/Kg	☼	03/02/15 16:12	03/10/15 13:30	1
Hexachlorocyclopentadiene	<810		810	230	ug/Kg	☼	03/02/15 16:12	03/10/15 13:30	1
Hexachloroethane	<200		200	61	ug/Kg	☼	03/02/15 16:12	03/10/15 13:30	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Niles and Glenview - WO 011

TestAmerica Job ID: 500-92697-1

**Client Sample ID: GD-2(7-15)-022615**

**Lab Sample ID: 500-92697-10**

**Date Collected: 02/26/15 13:45**

**Matrix: Solid**

**Date Received: 02/27/15 12:30**

**Percent Solids: 81.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<40		40	10	ug/Kg	☼	03/02/15 16:12	03/10/15 13:30	1
Isophorone	<200		200	45	ug/Kg	☼	03/02/15 16:12	03/10/15 13:30	1
<b>Naphthalene</b>	<b>9.3</b>	<b>J</b>	40	6.2	ug/Kg	☼	03/02/15 16:12	03/10/15 13:30	1
Nitrobenzene	<40		40	10	ug/Kg	☼	03/02/15 16:12	03/10/15 13:30	1
N-Nitrosodi-n-propylamine	<200		200	49	ug/Kg	☼	03/02/15 16:12	03/10/15 13:30	1
N-Nitrosodiphenylamine	<200		200	48	ug/Kg	☼	03/02/15 16:12	03/10/15 13:30	1
Pentachlorophenol	<810		810	650	ug/Kg	☼	03/02/15 16:12	03/10/15 13:30	1
<b>Phenanthrene</b>	<b>38</b>	<b>J</b>	40	5.6	ug/Kg	☼	03/02/15 16:12	03/10/15 13:30	1
Phenol	<200		200	90	ug/Kg	☼	03/02/15 16:12	03/10/15 13:30	1
<b>Pyrene</b>	<b>15</b>	<b>J</b>	40	8.0	ug/Kg	☼	03/02/15 16:12	03/10/15 13:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	42		35 - 137				03/02/15 16:12	03/10/15 13:30	1
2-Fluorobiphenyl	47		25 - 119				03/02/15 16:12	03/10/15 13:30	1
2-Fluorophenol	44		25 - 110				03/02/15 16:12	03/10/15 13:30	1
Nitrobenzene-d5	42		25 - 115				03/02/15 16:12	03/10/15 13:30	1
Phenol-d5	48		31 - 110				03/02/15 16:12	03/10/15 13:30	1
Terphenyl-d14	58		36 - 134				03/02/15 16:12	03/10/15 13:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/08/15 15:00	03/09/15 12:29	1
<b>Barium</b>	<b>0.38</b>	<b>J</b>	0.50	0.050	mg/L		03/08/15 15:00	03/09/15 12:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/08/15 15:00	03/09/15 12:29	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/08/15 15:00	03/09/15 12:29	1
Chromium	<0.025		0.025	0.010	mg/L		03/08/15 15:00	03/09/15 12:29	1
<b>Cobalt</b>	<b>0.017</b>	<b>J</b>	0.025	0.010	mg/L		03/08/15 15:00	03/09/15 12:29	1
<b>Copper</b>	<b>0.023</b>	<b>J</b>	0.025	0.010	mg/L		03/08/15 15:00	03/09/15 12:29	1
<b>Iron</b>	<b>0.21</b>		0.20	0.20	mg/L		03/08/15 15:00	03/09/15 12:29	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/08/15 15:00	03/09/15 12:29	1
<b>Manganese</b>	<b>1.4</b>		0.025	0.010	mg/L		03/08/15 15:00	03/09/15 12:29	1
<b>Nickel</b>	<b>0.051</b>		0.025	0.010	mg/L		03/08/15 15:00	03/09/15 12:29	1
Selenium	<0.050		0.050	0.020	mg/L		03/08/15 15:00	03/09/15 12:29	1
Silver	<0.025		0.025	0.010	mg/L		03/08/15 15:00	03/09/15 12:29	1
<b>Zinc</b>	<b>0.036</b>	<b>J</b>	0.10	0.020	mg/L		03/08/15 15:00	03/09/15 12:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/06/15 09:10	03/06/15 19:03	1
<b>Barium</b>	<b>0.051</b>	<b>J</b>	0.50	0.050	mg/L		03/06/15 09:10	03/06/15 19:03	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/15 09:10	03/06/15 19:03	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/06/15 09:10	03/06/15 19:03	1
Chromium	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 19:03	1
Cobalt	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 19:03	1
<b>Copper</b>	<b>0.028</b>		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 19:03	1
<b>Iron</b>	<b>0.42</b>		0.20	0.20	mg/L		03/06/15 09:10	03/06/15 19:03	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/06/15 09:10	03/06/15 19:03	1
<b>Manganese</b>	<b>0.019</b>	<b>J</b>	0.025	0.010	mg/L		03/06/15 09:10	03/06/15 19:03	1
Nickel	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 19:03	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/15 09:10	03/06/15 19:03	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Niles and Glenview - WO 011

TestAmerica Job ID: 500-92697-1

**Client Sample ID: GD-2(7-15)-022615**

**Lab Sample ID: 500-92697-10**

Date Collected: 02/26/15 13:45

Matrix: Solid

Date Received: 02/27/15 12:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 19:03	1
Zinc	0.042	J	0.10	0.020	mg/L		03/06/15 09:10	03/06/15 19:03	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.1	J B	1.2	0.24	mg/Kg	☼	03/02/15 09:51	03/04/15 04:43	1
Arsenic	7.9		0.58	0.27	mg/Kg	☼	03/02/15 09:51	03/04/15 04:43	1
Barium	26		0.58	0.11	mg/Kg	☼	03/02/15 09:51	03/04/15 04:43	1
Beryllium	0.90		0.23	0.050	mg/Kg	☼	03/02/15 09:51	03/04/15 04:43	1
Cadmium	<0.12		0.12	0.033	mg/Kg	☼	03/02/15 09:51	03/04/15 04:43	1
Calcium	50000		12	3.7	mg/Kg	☼	03/02/15 09:51	03/04/15 04:43	1
Chromium	24		0.58	0.099	mg/Kg	☼	03/02/15 09:51	03/04/15 04:43	1
Cobalt	12		0.29	0.065	mg/Kg	☼	03/02/15 09:51	03/04/15 04:43	1
Copper	22		0.58	0.12	mg/Kg	☼	03/02/15 09:51	03/04/15 04:43	1
Iron	24000		12	4.4	mg/Kg	☼	03/02/15 09:51	03/04/15 04:43	1
Lead	11		0.29	0.14	mg/Kg	☼	03/02/15 09:51	03/04/15 04:43	1
Magnesium	21000		5.8	2.3	mg/Kg	☼	03/02/15 09:51	03/04/15 04:43	1
Manganese	320		0.58	0.11	mg/Kg	☼	03/02/15 09:51	03/04/15 04:43	1
Nickel	34		0.58	0.16	mg/Kg	☼	03/02/15 09:51	03/04/15 04:43	1
Potassium	3300		29	4.7	mg/Kg	☼	03/02/15 09:51	03/05/15 02:06	1
Selenium	0.91		0.58	0.28	mg/Kg	☼	03/02/15 09:51	03/04/15 04:43	1
Silver	0.082	J	0.29	0.067	mg/Kg	☼	03/02/15 09:51	03/04/15 04:43	1
Sodium	230		58	7.6	mg/Kg	☼	03/02/15 09:51	03/05/15 02:06	1
Thallium	1.3		0.58	0.28	mg/Kg	☼	03/02/15 09:51	03/04/15 04:43	1
Vanadium	22		0.29	0.084	mg/Kg	☼	03/02/15 09:51	03/05/15 02:06	1
Zinc	49		1.2	0.36	mg/Kg	☼	03/02/15 09:51	03/04/15 04:43	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		03/06/15 12:00	03/06/15 17:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/06/15 12:00	03/06/15 16:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	27		18	6.3	ug/Kg	☼	03/02/15 15:30	03/03/15 11:50	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.14		0.200	0.200	SU			03/03/15 13:31	1



# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Niles and Glenview - WO 011

TestAmerica Job ID: 500-92697-1

## Qualifiers

### GC/MS VOA

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

### GC/MS Semi VOA

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

### Metals

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

## Glossary

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

# Certification Summary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Niles and Glenview - WO 011

TestAmerica Job ID: 500-92697-1

## Laboratory: TestAmerica Chicago

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

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

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

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

\* Certification renewal pending - certification considered valid.



# TestAmerica

THE LEADER IN ENVIRONMENTAL

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



500-92697 COC

Report To (optional)  
Contact: S. Babusukumar  
Company: Weston Solutions  
Address: 300 Plaza Circle #202  
Address: Mundelein, IL 60060  
Phone: 224-864-7250  
Fax:  
E-Mail: Babu.Babusukumar@westonsolutions.com

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

## Chain of Custody Record

Lab Job #: 500-92697

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

Page 1 of 2

Temperature °C of Cooler: 3.1

Client		Client Project #		Preservative							Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		Parameter								
Project Location/State		Lab PM										
Sampler												
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCS	SVOCS	metals	TCU/SLU metals	PH	Comments
1		MG-2(0-1)-022615	2-26-15	10:00	2	SO	X	X	X	X	X	
2		MG-1(0-7)-022615		10:25								
<del>MG-1(0-7)-022615</del>												
3		MG-1(7-15)-022615		10:30								
4		MG-1(7-15)-022615 D		10:30								
5		AB-1(0-1)-022615		10:45								
6		CB1-1(0-1)-022615		11:10								
7		GD-1(0-1)-022615		11:25								
8		MS-1(0-1)-022615		12:00								
9		GD-2(0-7)-022615	2-26-15	13:40	2	SO	X	X	X	X	X	

Turnaround Time Required (Business Days)

\_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days \_\_\_ 10 Days \_\_\_ 15 Days std 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>Shirley Ann</u> Company <u>Weston</u> Date <u>2-27-15</u> Time <u>1045</u>	Received By <u>Shirley Ann</u> Company <u>TA</u> Date <u>2/27/15</u> Time <u>1045</u>	Lab Courier <u>TA</u>
Relinquished By <u>Shirley Ann</u> Company <u>TA</u> Date <u>2/27/15</u> Time <u>1230</u>	Received By <u>Shirley Ann</u> Company <u>TA-CHE</u> Date <u>2/27/15</u> Time <u>1230</u>	Shipped _____
Relinquished By _____ Company _____ Date _____ Time _____	Received By _____ Company _____ Date _____ Time _____	Hand Delivered _____

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

Client Comments

Lab Comments:

Report To (optional) S. Babusukumar Bill To (optional) SAME  
 Contact: S. Babusukumar Contact: SAME  
 Company: Weston Solutions, Inc. Company: SAME  
 Address: 300 Plaza Circle #202 Address:   
 Address: Murderlein, IL 60060 Address:   
 Phone: 224-804-7250 Phone:   
 Fax:  Fax:   
 E-Mail: S.Babusukumar@westonsolutions.com PO#/Reference#

## Chain of Custody Record

Lab Job #: 500-92697  
 Chain of Custody Number:   
 Page 2 of 2  
 Temperature °C of Cooler:

Client		Client Project #		Preservative		Parameter					Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		Parameter		Parameter						
Project Location/State		Lab PM		Parameter		Parameter						
Sampler		Lab PM		Parameter		Parameter						
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCS	SVOCS	metals	TCLP/ SPLP metals	PH	Comments
10		GD-2(7-15)-022615	2/26/15	13:45	2	SO	X	X	X	X	X	
11		TU-1(0-7)-022615		14:40	1							
12		TU-1(7-15)-022615		14:45	1							
13		GM-1(0-7)-022615		15:25	1							
14		GM-1(7-15)-022615		15:30	1							
15		CB2-1(0-7)-022615		16:10	1							
16		CB2-1(7-15)-022615		16:15	1							
17		CB2-1(7-15)-022615	2/26/15	16:15	2	SO	X	X	X	X	X	
* last item *												

Turnaround Time Required (Business Days)

1 Day  2 Days  5 Days  7 Days  10 Days  15 Days  std 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>David Allen</u>	Company <u>Weston</u>	Date <u>2/27/15</u>	Time <u>10:45</u>	Received By <u>TA</u>	Company <u>TA</u>	Date <u>2/27/15</u>	Time <u>10:45</u>
Relinquished By <u>TA</u>	Company <u>TA</u>	Date <u>2/27/15</u>	Time <u>12:30</u>	Received By <u>TA</u>	Company <u>TA</u>	Date <u>2/27/15</u>	Time <u>12:30</u>

Lab Courier: TA  
 Shipped:   
 Hand Delivered:

Matrix Key

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

Client Comments

Lab Comments:



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

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

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

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

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

### I. Source Location Information

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

Project Name: FAP 374: IL 21 at IL 58 and Greenwood Ave Office Phone Number, if available: \_\_\_\_\_

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

8530 and 8534 Golf Road (ISGS Site No. 2825-25)

City: Niles State: IL Zip Code: \_\_\_\_\_

County: Cook Township: \_\_\_\_\_

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

Latitude: 42.054818299 Longitude: -87.838041846  
(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 374: IL 21 at IL 58 and Greenwood Ave

Latitude: 42.054818299 Longitude: -87.838041846

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 CB2-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2825-25. SEE FIGURE 3-2 AND TABLE 4-1 OF THE PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

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

TEST AMERICA ANALYTICAL REPORT - JOB ID: 500-92697-1.  
ALSO SEE FIGURE 4-2 OF THE REVISED PRELIMINARY SITE INVESTIGATION REPORT.

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

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

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

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

Michael A. Castillo, P.G.  
 Printed Name:

Michael Castillo  
 Licensed Professional Engineer or  
 Licensed Professional Geologist Signature:

April 15, 2015  
 Date:



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

**Summary Table of ISGS Site No. 2825-25**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 374: Illinois Route 21 at Illinois Route 58 and Greenwood Avenue**  
**Niles and Glenview, Cook County, Illinois**

Field Sample ID	CB2-1(0-7)-022615	CB2-1(7-15)-022615	CB2-1(7-15)-022615D	Soil Reference Concentrations <sup>A</sup>
Sample Date	2/26/2015	2/26/2015	2/26/2015	
Location ID	CB2-1	CB2-1	CB2-1	
Depth	0 - 7	7 - 15	7 - 15	
ISGS Site No.	2525-25	2525-25	2525-25	
Parameter				
Laboratory pH	8.54	8.14	8.14	<6.25,>9.0
<b>VOCs</b>	None Detected			
<b>SVOCs (ug/kg)</b>				
2-Methylnaphthalene	ND	69	81	---
Benzo(a)anthracene	17 J	ND	ND	900 / 1100 / 1800
Benzo(a)pyrene	18 J	ND	ND	90 / 1300 / 2100
Benzo(b)fluoranthene	28 J	ND	ND	900 / 1500 / 2100
Benzo(g,h,i)perylene	19 J	ND	ND	---
Chrysene	21 J	18 J	ND	88000
Fluoranthene	33 J	ND	ND	3100000
Indeno(1,2,3-cd)pyrene	14 J	ND	ND	900 / 900 / 1600
Naphthalene, SVOC	ND	24 J	28 J	1800
Phenanthrene	15 J	53	65	---
Pyrene	32 J	23 J	ND	2300000
<b>Total Metals (mg/kg)</b>				
Arsenic, Total	4.6 J-	9.7 J	5.4 J	11.3 / 13
Barium, Total	220 J	53 J	51 J	1500
Beryllium, Total	1.3	1	1	22
Calcium, Total	7500 J	38000 J	37000 J	---
Chromium, Total	33	26	27	21
Cobalt, Total	8.8 J	12 J	13 J	20
Copper, Total	22 J	20 J	20 J	2900
Iron, Total	26000 J	27000 J	26000 J	15000 / 15900
Lead, Total	19 J	12 J	10 J	107
Magnesium, Total	8200 J	21000 J	21000 J	325000
Manganese, Total	140 J	340 J	320 J	630 / 636
Mercury, Total	0.038 J	0.025 J	0.024 J	0.89
Nickel, Total	27	35	36	100
Potassium, Total	2400 J+	3700 J+	3900 J+	---
Selenium, Total	0.87	0.7	0.75	1.3
Sodium, Total	800	260	270	---
Thallium, Total	1.2	1.5	1.3	2.6
Vanadium, Total	32	23	23	550
Zinc, Total	48 J	49 J	49 J	5100
<b>TCLP Metals (mg/l)</b>				
Barium, TCLP	0.54	0.45 J	0.43 J	2
Cadmium, TCLP	0.0023 J	0.0022 J	0.002 J	0.005
Cobalt, TCLP	ND	0.017 J	0.027	1
Copper, TCLP	0.033	0.021 J	0.036	0.65
Lead, TCLP	0.012	ND	ND	0.0075
Manganese, TCLP	0.65	2.3	2.2	0.15
Nickel, TCLP	ND	0.034	0.056	0.1
Zinc, TCLP	0.049 J	0.034 J	0.053 J	5
<b>SPLP Metals (mg/l)</b>				
Barium, SPLP	0.33 J	0.051 J	0.056 J	2
Chromium, SPLP	0.042	ND	ND	0.1
Copper, SPLP	0.048	0.02 J	0.027	0.65
Iron, SPLP	23 J+	1.3 J+	1.4 J+	5
Lead, SPLP	0.019	ND	ND	0.0075
Manganese, SPLP	0.082	0.027	0.026	0.15
Nickel, SPLP	0.025	ND	ND	0.1
Zinc, SPLP	0.1	0.04 J	0.045 J	5
Percent Solids	75	81	80	

**Summary Table of ISGS Site No. 2825-25**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 374: Illinois Route 21 at Illinois Route 58 and Greenwood Avenue**  
**Niles and Glenview, Cook 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.

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: 500-92697-1  
Client Project/Site: IDOT - Niles and Glenview - WO 011

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

Attn: Mr. S. Babusukumar



Authorized for release by:  
3/10/2015 4:21:48 PM

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

### LINKS

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

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

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

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# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Niles and Glenview - WO 011

TestAmerica Job ID: 500-92697-1

**Client Sample ID: CB2-1(0-7)-022615**

**Lab Sample ID: 500-92697-15**

**Date Collected: 02/26/15 16:10**

**Matrix: Solid**

**Date Received: 02/27/15 12:30**

**Percent Solids: 75.2**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<6.6		6.6	2.9	ug/Kg	☼		03/03/15 19:30	1
Benzene	<6.6		6.6	0.91	ug/Kg	☼		03/03/15 19:30	1
Bromodichloromethane	<6.6		6.6	1.1	ug/Kg	☼		03/03/15 19:30	1
Bromoform	<6.6		6.6	1.5	ug/Kg	☼		03/03/15 19:30	1
Bromomethane	<6.6		6.6	2.0	ug/Kg	☼		03/03/15 19:30	1
Carbon disulfide	<6.6		6.6	0.99	ug/Kg	☼		03/03/15 19:30	1
Carbon tetrachloride	<6.6	*	6.6	1.2	ug/Kg	☼		03/03/15 19:30	1
Chlorobenzene	<6.6		6.6	0.67	ug/Kg	☼		03/03/15 19:30	1
Chloroethane	<6.6		6.6	1.8	ug/Kg	☼		03/03/15 19:30	1
Chloroform	<6.6		6.6	0.76	ug/Kg	☼		03/03/15 19:30	1
Chloromethane	<6.6		6.6	1.4	ug/Kg	☼		03/03/15 19:30	1
cis-1,2-Dichloroethene	<6.6		6.6	0.94	ug/Kg	☼		03/03/15 19:30	1
cis-1,3-Dichloropropene	<6.6		6.6	0.87	ug/Kg	☼		03/03/15 19:30	1
Dibromochloromethane	<6.6		6.6	1.2	ug/Kg	☼		03/03/15 19:30	1
1,1-Dichloroethane	<6.6		6.6	1.1	ug/Kg	☼		03/03/15 19:30	1
1,2-Dichloroethane	<6.6		6.6	0.99	ug/Kg	☼		03/03/15 19:30	1
1,1-Dichloroethene	<6.6		6.6	1.1	ug/Kg	☼		03/03/15 19:30	1
1,2-Dichloropropane	<6.6		6.6	1.0	ug/Kg	☼		03/03/15 19:30	1
1,3-Dichloropropene, Total	<6.6		6.6	0.87	ug/Kg	☼		03/03/15 19:30	1
Ethylbenzene	<6.6		6.6	1.3	ug/Kg	☼		03/03/15 19:30	1
2-Hexanone	<6.6		6.6	1.9	ug/Kg	☼		03/03/15 19:30	1
Methylene Chloride	<6.6		6.6	1.8	ug/Kg	☼		03/03/15 19:30	1
Methyl Ethyl Ketone	<6.6		6.6	2.4	ug/Kg	☼		03/03/15 19:30	1
methyl isobutyl ketone	<6.6		6.6	1.7	ug/Kg	☼		03/03/15 19:30	1
Methyl tert-butyl ether	<6.6		6.6	1.1	ug/Kg	☼		03/03/15 19:30	1
Styrene	<6.6		6.6	0.87	ug/Kg	☼		03/03/15 19:30	1
1,1,1,2-Tetrachloroethane	<6.6		6.6	1.3	ug/Kg	☼		03/03/15 19:30	1
Tetrachloroethene	<6.6		6.6	1.0	ug/Kg	☼		03/03/15 19:30	1
Toluene	<6.6		6.6	0.93	ug/Kg	☼		03/03/15 19:30	1
trans-1,2-Dichloroethene	<6.6		6.6	0.91	ug/Kg	☼		03/03/15 19:30	1
trans-1,3-Dichloropropene	<6.6		6.6	1.2	ug/Kg	☼		03/03/15 19:30	1
1,1,1-Trichloroethane	<6.6		6.6	0.99	ug/Kg	☼		03/03/15 19:30	1
1,1,2-Trichloroethane	<6.6		6.6	0.91	ug/Kg	☼		03/03/15 19:30	1
Trichloroethene	<6.6		6.6	1.1	ug/Kg	☼		03/03/15 19:30	1
Vinyl chloride	<6.6		6.6	1.4	ug/Kg	☼		03/03/15 19:30	1
Xylenes, Total	<13		13	0.60	ug/Kg	☼		03/03/15 19:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 122		03/03/15 19:30	1
Dibromofluoromethane	85		75 - 120		03/03/15 19:30	1
1,2-Dichloroethane-d4 (Surr)	82		70 - 134		03/03/15 19:30	1
Toluene-d8 (Surr)	99		75 - 122		03/03/15 19:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<210		210	45	ug/Kg	☼	03/02/15 16:12	03/10/15 15:08	1
1,2-Dichlorobenzene	<210		210	50	ug/Kg	☼	03/02/15 16:12	03/10/15 15:08	1
1,3-Dichlorobenzene	<210		210	47	ug/Kg	☼	03/02/15 16:12	03/10/15 15:08	1
1,4-Dichlorobenzene	<210		210	54	ug/Kg	☼	03/02/15 16:12	03/10/15 15:08	1
2,2'-oxybis[1-chloropropane]	<210		210	49	ug/Kg	☼	03/02/15 16:12	03/10/15 15:08	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Niles and Glenview - WO 011

TestAmerica Job ID: 500-92697-1

**Client Sample ID: CB2-1(0-7)-022615**

**Lab Sample ID: 500-92697-15**

Date Collected: 02/26/15 16:10

Matrix: Solid

Date Received: 02/27/15 12:30

Percent Solids: 75.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<420		420	96	ug/Kg	☼	03/02/15 16:12	03/10/15 15:08	1
2,4,6-Trichlorophenol	<420		420	140	ug/Kg	☼	03/02/15 16:12	03/10/15 15:08	1
2,4-Dichlorophenol	<420		420	100	ug/Kg	☼	03/02/15 16:12	03/10/15 15:08	1
2,4-Dimethylphenol	<420		420	160	ug/Kg	☼	03/02/15 16:12	03/10/15 15:08	1
2,4-Dinitrophenol	<850	*	850	740	ug/Kg	☼	03/02/15 16:12	03/10/15 15:08	1
2,4-Dinitrotoluene	<210		210	67	ug/Kg	☼	03/02/15 16:12	03/10/15 15:08	1
2,6-Dinitrotoluene	<210		210	83	ug/Kg	☼	03/02/15 16:12	03/10/15 15:08	1
2-Chloronaphthalene	<210		210	47	ug/Kg	☼	03/02/15 16:12	03/10/15 15:08	1
2-Chlorophenol	<210		210	72	ug/Kg	☼	03/02/15 16:12	03/10/15 15:08	1
2-Methylnaphthalene	<42		42	7.8	ug/Kg	☼	03/02/15 16:12	03/10/15 15:08	1
2-Methylphenol	<210		210	68	ug/Kg	☼	03/02/15 16:12	03/10/15 15:08	1
2-Nitroaniline	<210		210	57	ug/Kg	☼	03/02/15 16:12	03/10/15 15:08	1
2-Nitrophenol	<420		420	100	ug/Kg	☼	03/02/15 16:12	03/10/15 15:08	1
3 & 4 Methylphenol	<210		210	70	ug/Kg	☼	03/02/15 16:12	03/10/15 15:08	1
3,3'-Dichlorobenzidine	<210		210	59	ug/Kg	☼	03/02/15 16:12	03/10/15 15:08	1
3-Nitroaniline	<420		420	130	ug/Kg	☼	03/02/15 16:12	03/10/15 15:08	1
4,6-Dinitro-2-methylphenol	<420	*	420	340	ug/Kg	☼	03/02/15 16:12	03/10/15 15:08	1
4-Bromophenyl phenyl ether	<210		210	56	ug/Kg	☼	03/02/15 16:12	03/10/15 15:08	1
4-Chloro-3-methylphenol	<420		420	140	ug/Kg	☼	03/02/15 16:12	03/10/15 15:08	1
4-Chloroaniline	<850		850	200	ug/Kg	☼	03/02/15 16:12	03/10/15 15:08	1
4-Chlorophenyl phenyl ether	<210		210	49	ug/Kg	☼	03/02/15 16:12	03/10/15 15:08	1
4-Nitroaniline	<420		420	180	ug/Kg	☼	03/02/15 16:12	03/10/15 15:08	1
4-Nitrophenol	<850		850	400	ug/Kg	☼	03/02/15 16:12	03/10/15 15:08	1
Acenaphthene	<42		42	7.6	ug/Kg	☼	03/02/15 16:12	03/10/15 15:08	1
Acenaphthylene	<42		42	5.6	ug/Kg	☼	03/02/15 16:12	03/10/15 15:08	1
Anthracene	<42		42	7.0	ug/Kg	☼	03/02/15 16:12	03/10/15 15:08	1
<b>Benzo[a]anthracene</b>	<b>17</b>	<b>J</b>	42	5.7	ug/Kg	☼	03/02/15 16:12	03/10/15 15:08	1
<b>Benzo[a]pyrene</b>	<b>18</b>	<b>J</b>	42	8.2	ug/Kg	☼	03/02/15 16:12	03/10/15 15:08	1
<b>Benzo[b]fluoranthene</b>	<b>28</b>	<b>J</b>	42	9.1	ug/Kg	☼	03/02/15 16:12	03/10/15 15:08	1
<b>Benzo[g,h,i]perylene</b>	<b>19</b>	<b>J</b>	42	14	ug/Kg	☼	03/02/15 16:12	03/10/15 15:08	1
Benzo[k]fluoranthene	<42		42	12	ug/Kg	☼	03/02/15 16:12	03/10/15 15:08	1
Bis(2-chloroethoxy)methane	<210		210	43	ug/Kg	☼	03/02/15 16:12	03/10/15 15:08	1
Bis(2-chloroethyl)ether	<210		210	63	ug/Kg	☼	03/02/15 16:12	03/10/15 15:08	1
Bis(2-ethylhexyl) phthalate	<210		210	77	ug/Kg	☼	03/02/15 16:12	03/10/15 15:08	1
Butyl benzyl phthalate	<210		210	80	ug/Kg	☼	03/02/15 16:12	03/10/15 15:08	1
Carbazole	<210		210	110	ug/Kg	☼	03/02/15 16:12	03/10/15 15:08	1
<b>Chrysene</b>	<b>21</b>	<b>J</b>	42	12	ug/Kg	☼	03/02/15 16:12	03/10/15 15:08	1
Dibenz(a,h)anthracene	<42		42	8.2	ug/Kg	☼	03/02/15 16:12	03/10/15 15:08	1
Dibenzofuran	<210		210	49	ug/Kg	☼	03/02/15 16:12	03/10/15 15:08	1
Diethyl phthalate	<210		210	71	ug/Kg	☼	03/02/15 16:12	03/10/15 15:08	1
Dimethyl phthalate	<210		210	55	ug/Kg	☼	03/02/15 16:12	03/10/15 15:08	1
Di-n-butyl phthalate	<210		210	64	ug/Kg	☼	03/02/15 16:12	03/10/15 15:08	1
Di-n-octyl phthalate	<210		210	69	ug/Kg	☼	03/02/15 16:12	03/10/15 15:08	1
<b>Fluoranthene</b>	<b>33</b>	<b>J</b>	42	7.8	ug/Kg	☼	03/02/15 16:12	03/10/15 15:08	1
Fluorene	<42		42	5.9	ug/Kg	☼	03/02/15 16:12	03/10/15 15:08	1
Hexachlorobenzene	<85		85	9.8	ug/Kg	☼	03/02/15 16:12	03/10/15 15:08	1
Hexachlorobutadiene	<210		210	66	ug/Kg	☼	03/02/15 16:12	03/10/15 15:08	1
Hexachlorocyclopentadiene	<850		850	240	ug/Kg	☼	03/02/15 16:12	03/10/15 15:08	1
Hexachloroethane	<210		210	64	ug/Kg	☼	03/02/15 16:12	03/10/15 15:08	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Niles and Glenview - WO 011

TestAmerica Job ID: 500-92697-1

**Client Sample ID: CB2-1(0-7)-022615**

**Lab Sample ID: 500-92697-15**

Date Collected: 02/26/15 16:10

Matrix: Solid

Date Received: 02/27/15 12:30

Percent Solids: 75.2

**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>14</b>	<b>J</b>	42	11	ug/Kg	☼	03/02/15 16:12	03/10/15 15:08	1
Isophorone	<210		210	47	ug/Kg	☼	03/02/15 16:12	03/10/15 15:08	1
Naphthalene	<42		42	6.5	ug/Kg	☼	03/02/15 16:12	03/10/15 15:08	1
Nitrobenzene	<42		42	11	ug/Kg	☼	03/02/15 16:12	03/10/15 15:08	1
N-Nitrosodi-n-propylamine	<210		210	52	ug/Kg	☼	03/02/15 16:12	03/10/15 15:08	1
N-Nitrosodiphenylamine	<210		210	50	ug/Kg	☼	03/02/15 16:12	03/10/15 15:08	1
Pentachlorophenol	<850		850	680	ug/Kg	☼	03/02/15 16:12	03/10/15 15:08	1
<b>Phenanthrene</b>	<b>15</b>	<b>J</b>	42	5.9	ug/Kg	☼	03/02/15 16:12	03/10/15 15:08	1
Phenol	<210		210	94	ug/Kg	☼	03/02/15 16:12	03/10/15 15:08	1
<b>Pyrene</b>	<b>32</b>	<b>J</b>	42	8.4	ug/Kg	☼	03/02/15 16:12	03/10/15 15:08	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	39		35 - 137				03/02/15 16:12	03/10/15 15:08	1
2-Fluorobiphenyl	40		25 - 119				03/02/15 16:12	03/10/15 15:08	1
2-Fluorophenol	37		25 - 110				03/02/15 16:12	03/10/15 15:08	1
Nitrobenzene-d5	31		25 - 115				03/02/15 16:12	03/10/15 15:08	1
Phenol-d5	43		31 - 110				03/02/15 16:12	03/10/15 15:08	1
Terphenyl-d14	56		36 - 134				03/02/15 16:12	03/10/15 15:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/06/15 09:10	03/06/15 18:46	1
<b>Barium</b>	<b>0.54</b>		0.50	0.050	mg/L		03/06/15 09:10	03/06/15 18:46	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/15 09:10	03/06/15 18:46	1
<b>Cadmium</b>	<b>0.0023</b>	<b>J</b>	0.0050	0.0020	mg/L		03/06/15 09:10	03/06/15 18:46	1
Chromium	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:46	1
Cobalt	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:46	1
<b>Copper</b>	<b>0.033</b>		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:46	1
Iron	<0.20		0.20	0.20	mg/L		03/06/15 09:10	03/06/15 18:46	1
<b>Lead</b>	<b>0.012</b>		0.0075	0.0075	mg/L		03/06/15 09:10	03/06/15 18:46	1
<b>Manganese</b>	<b>0.65</b>		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:46	1
Nickel	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:46	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/15 09:10	03/06/15 18:46	1
Silver	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:46	1
<b>Zinc</b>	<b>0.049</b>	<b>J</b>	0.10	0.020	mg/L		03/06/15 09:10	03/06/15 18:46	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		03/06/15 09:10	03/06/15 19:35	1
<b>Barium</b>	<b>0.33</b>	<b>J</b>	0.50	0.050	mg/L		03/06/15 09:10	03/06/15 19:35	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/15 09:10	03/06/15 19:35	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/06/15 09:10	03/06/15 19:35	1
<b>Chromium</b>	<b>0.042</b>		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 19:35	1
Cobalt	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 19:35	1
<b>Copper</b>	<b>0.048</b>		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 19:35	1
<b>Iron</b>	<b>23</b>		0.20	0.20	mg/L		03/06/15 09:10	03/06/15 19:35	1
<b>Lead</b>	<b>0.019</b>		0.0075	0.0075	mg/L		03/06/15 09:10	03/06/15 19:35	1
<b>Manganese</b>	<b>0.082</b>		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 19:35	1
<b>Nickel</b>	<b>0.025</b>		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 19:35	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/15 09:10	03/06/15 19:35	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Niles and Glenview - WO 011

TestAmerica Job ID: 500-92697-1

**Client Sample ID: CB2-1(0-7)-022615**

**Lab Sample ID: 500-92697-15**

Date Collected: 02/26/15 16:10

Matrix: Solid

Date Received: 02/27/15 12:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 19:35	1
Zinc	0.10		0.10	0.020	mg/L		03/06/15 09:10	03/07/15 22:18	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.0	J B	1.2	0.26	mg/Kg	⊛	03/02/15 09:51	03/04/15 05:29	1
Arsenic	4.6		0.62	0.29	mg/Kg	⊛	03/02/15 09:51	03/04/15 05:29	1
Barium	220		0.62	0.11	mg/Kg	⊛	03/02/15 09:51	03/04/15 05:29	1
Beryllium	1.3		0.25	0.054	mg/Kg	⊛	03/02/15 09:51	03/04/15 05:29	1
Cadmium	<0.12		0.12	0.036	mg/Kg	⊛	03/02/15 09:51	03/04/15 05:29	1
Calcium	7500		12	4.0	mg/Kg	⊛	03/02/15 09:51	03/04/15 05:29	1
Chromium	33		0.62	0.11	mg/Kg	⊛	03/02/15 09:51	03/04/15 05:29	1
Cobalt	8.8		0.31	0.070	mg/Kg	⊛	03/02/15 09:51	03/04/15 05:29	1
Copper	22		0.62	0.14	mg/Kg	⊛	03/02/15 09:51	03/04/15 05:29	1
Iron	26000		12	4.8	mg/Kg	⊛	03/02/15 09:51	03/04/15 05:29	1
Lead	19		0.31	0.16	mg/Kg	⊛	03/02/15 09:51	03/04/15 05:29	1
Magnesium	8200		6.2	2.5	mg/Kg	⊛	03/02/15 09:51	03/04/15 05:29	1
Manganese	140		0.62	0.12	mg/Kg	⊛	03/02/15 09:51	03/04/15 05:29	1
Nickel	27		0.62	0.17	mg/Kg	⊛	03/02/15 09:51	03/04/15 05:29	1
Potassium	2400		31	5.1	mg/Kg	⊛	03/02/15 09:51	03/05/15 02:32	1
Selenium	0.87		0.62	0.31	mg/Kg	⊛	03/02/15 09:51	03/04/15 05:29	1
Silver	<0.31		0.31	0.073	mg/Kg	⊛	03/02/15 09:51	03/04/15 05:29	1
Sodium	800		62	8.2	mg/Kg	⊛	03/02/15 09:51	03/05/15 02:32	1
Thallium	1.2		0.62	0.31	mg/Kg	⊛	03/02/15 09:51	03/04/15 05:29	1
Vanadium	32		0.31	0.091	mg/Kg	⊛	03/02/15 09:51	03/05/15 02:32	1
Zinc	48		1.2	0.39	mg/Kg	⊛	03/02/15 09:51	03/04/15 05:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/06/15 12:00	03/06/15 17:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/06/15 12:00	03/06/15 16:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	38		20	7.1	ug/Kg	⊛	03/02/15 15:30	03/03/15 12:05	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.54		0.200	0.200	SU			03/03/15 13:49	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Niles and Glenview - WO 011

TestAmerica Job ID: 500-92697-1

**Client Sample ID: CB2-1(7-15)-022615**

**Lab Sample ID: 500-92697-16**

**Date Collected: 02/26/15 16:15**

**Matrix: Solid**

**Date Received: 02/27/15 12:30**

**Percent Solids: 80.7**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<6.2		6.2	2.7	ug/Kg	☼		03/05/15 11:47	1
Benzene	<6.2		6.2	0.85	ug/Kg	☼		03/05/15 11:47	1
Bromodichloromethane	<6.2		6.2	1.1	ug/Kg	☼		03/05/15 11:47	1
Bromoform	<6.2		6.2	1.4	ug/Kg	☼		03/05/15 11:47	1
Bromomethane	<6.2		6.2	1.9	ug/Kg	☼		03/05/15 11:47	1
Carbon disulfide	<6.2		6.2	0.93	ug/Kg	☼		03/05/15 11:47	1
Carbon tetrachloride	<6.2		6.2	1.1	ug/Kg	☼		03/05/15 11:47	1
Chlorobenzene	<6.2		6.2	0.63	ug/Kg	☼		03/05/15 11:47	1
Chloroethane	<6.2		6.2	1.7	ug/Kg	☼		03/05/15 11:47	1
Chloroform	<6.2		6.2	0.71	ug/Kg	☼		03/05/15 11:47	1
Chloromethane	<6.2		6.2	1.3	ug/Kg	☼		03/05/15 11:47	1
cis-1,2-Dichloroethene	<6.2		6.2	0.88	ug/Kg	☼		03/05/15 11:47	1
cis-1,3-Dichloropropene	<6.2		6.2	0.81	ug/Kg	☼		03/05/15 11:47	1
Dibromochloromethane	<6.2		6.2	1.1	ug/Kg	☼		03/05/15 11:47	1
1,1-Dichloroethane	<6.2		6.2	0.98	ug/Kg	☼		03/05/15 11:47	1
1,2-Dichloroethane	<6.2		6.2	0.92	ug/Kg	☼		03/05/15 11:47	1
1,1,1-Dichloroethene	<6.2		6.2	1.0	ug/Kg	☼		03/05/15 11:47	1
1,2-Dichloropropane	<6.2		6.2	0.94	ug/Kg	☼		03/05/15 11:47	1
1,3-Dichloropropene, Total	<6.2		6.2	0.81	ug/Kg	☼		03/05/15 11:47	1
Ethylbenzene	<6.2		6.2	1.3	ug/Kg	☼		03/05/15 11:47	1
2-Hexanone	<6.2		6.2	1.8	ug/Kg	☼		03/05/15 11:47	1
Methylene Chloride	<6.2		6.2	1.7	ug/Kg	☼		03/05/15 11:47	1
Methyl Ethyl Ketone	<6.2		6.2	2.2	ug/Kg	☼		03/05/15 11:47	1
methyl isobutyl ketone	<6.2		6.2	1.6	ug/Kg	☼		03/05/15 11:47	1
Methyl tert-butyl ether	<6.2		6.2	1.0	ug/Kg	☼		03/05/15 11:47	1
Styrene	<6.2		6.2	0.81	ug/Kg	☼		03/05/15 11:47	1
1,1,1,2-Tetrachloroethane	<6.2		6.2	1.3	ug/Kg	☼		03/05/15 11:47	1
Tetrachloroethene	<6.2		6.2	0.95	ug/Kg	☼		03/05/15 11:47	1
Toluene	<6.2		6.2	0.87	ug/Kg	☼		03/05/15 11:47	1
trans-1,2-Dichloroethene	<6.2		6.2	0.85	ug/Kg	☼		03/05/15 11:47	1
trans-1,3-Dichloropropene	<6.2		6.2	1.1	ug/Kg	☼		03/05/15 11:47	1
1,1,1-Trichloroethane	<6.2		6.2	0.93	ug/Kg	☼		03/05/15 11:47	1
1,1,2-Trichloroethane	<6.2		6.2	0.85	ug/Kg	☼		03/05/15 11:47	1
Trichloroethene	<6.2		6.2	1.0	ug/Kg	☼		03/05/15 11:47	1
Vinyl chloride	<6.2		6.2	1.3	ug/Kg	☼		03/05/15 11:47	1
Xylenes, Total	<12		12	0.56	ug/Kg	☼		03/05/15 11:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 122		03/05/15 11:47	1
Dibromofluoromethane	90		75 - 120		03/05/15 11:47	1
1,2-Dichloroethane-d4 (Surr)	84		70 - 134		03/05/15 11:47	1
Toluene-d8 (Surr)	97		75 - 122		03/05/15 11:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<210		210	44	ug/Kg	☼	03/02/15 16:12	03/07/15 02:45	1
1,2-Dichlorobenzene	<210		210	49	ug/Kg	☼	03/02/15 16:12	03/07/15 02:45	1
1,3-Dichlorobenzene	<210		210	46	ug/Kg	☼	03/02/15 16:12	03/07/15 02:45	1
1,4-Dichlorobenzene	<210		210	52	ug/Kg	☼	03/02/15 16:12	03/07/15 02:45	1
2,2'-oxybis[1-chloropropane]	<210		210	47	ug/Kg	☼	03/02/15 16:12	03/07/15 02:45	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Niles and Glenview - WO 011

TestAmerica Job ID: 500-92697-1

**Client Sample ID: CB2-1(7-15)-022615**

**Lab Sample ID: 500-92697-16**

**Date Collected: 02/26/15 16:15**

**Matrix: Solid**

**Date Received: 02/27/15 12:30**

**Percent Solids: 80.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<410		410	93	ug/Kg	☼	03/02/15 16:12	03/07/15 02:45	1
2,4,6-Trichlorophenol	<410		410	140	ug/Kg	☼	03/02/15 16:12	03/07/15 02:45	1
2,4-Dichlorophenol	<410		410	97	ug/Kg	☼	03/02/15 16:12	03/07/15 02:45	1
2,4-Dimethylphenol	<410		410	150	ug/Kg	☼	03/02/15 16:12	03/07/15 02:45	1
2,4-Dinitrophenol	<820	*	820	720	ug/Kg	☼	03/02/15 16:12	03/07/15 02:45	1
2,4-Dinitrotoluene	<210		210	65	ug/Kg	☼	03/02/15 16:12	03/07/15 02:45	1
2,6-Dinitrotoluene	<210		210	80	ug/Kg	☼	03/02/15 16:12	03/07/15 02:45	1
2-Chloronaphthalene	<210		210	45	ug/Kg	☼	03/02/15 16:12	03/07/15 02:45	1
2-Chlorophenol	<210		210	70	ug/Kg	☼	03/02/15 16:12	03/07/15 02:45	1
<b>2-Methylnaphthalene</b>	<b>69</b>		41	7.5	ug/Kg	☼	03/02/15 16:12	03/07/15 02:45	1
2-Methylphenol	<210		210	65	ug/Kg	☼	03/02/15 16:12	03/07/15 02:45	1
2-Nitroaniline	<210		210	55	ug/Kg	☼	03/02/15 16:12	03/07/15 02:45	1
2-Nitrophenol	<410		410	96	ug/Kg	☼	03/02/15 16:12	03/07/15 02:45	1
3 & 4 Methylphenol	<210		210	68	ug/Kg	☼	03/02/15 16:12	03/07/15 02:45	1
3,3'-Dichlorobenzidine	<210		210	57	ug/Kg	☼	03/02/15 16:12	03/07/15 02:45	1
3-Nitroaniline	<410		410	130	ug/Kg	☼	03/02/15 16:12	03/07/15 02:45	1
4,6-Dinitro-2-methylphenol	<410	*	410	330	ug/Kg	☼	03/02/15 16:12	03/07/15 02:45	1
4-Bromophenyl phenyl ether	<210		210	54	ug/Kg	☼	03/02/15 16:12	03/07/15 02:45	1
4-Chloro-3-methylphenol	<410		410	140	ug/Kg	☼	03/02/15 16:12	03/07/15 02:45	1
4-Chloroaniline	<820		820	190	ug/Kg	☼	03/02/15 16:12	03/07/15 02:45	1
4-Chlorophenyl phenyl ether	<210		210	48	ug/Kg	☼	03/02/15 16:12	03/07/15 02:45	1
4-Nitroaniline	<410		410	170	ug/Kg	☼	03/02/15 16:12	03/07/15 02:45	1
4-Nitrophenol	<820		820	390	ug/Kg	☼	03/02/15 16:12	03/07/15 02:45	1
Acenaphthene	<41		41	7.3	ug/Kg	☼	03/02/15 16:12	03/07/15 02:45	1
Acenaphthylene	<41		41	5.4	ug/Kg	☼	03/02/15 16:12	03/07/15 02:45	1
Anthracene	<41		41	6.8	ug/Kg	☼	03/02/15 16:12	03/07/15 02:45	1
Benzo[a]anthracene	<41		41	5.5	ug/Kg	☼	03/02/15 16:12	03/07/15 02:45	1
Benzo[a]pyrene	<41		41	7.9	ug/Kg	☼	03/02/15 16:12	03/07/15 02:45	1
Benzo[b]fluoranthene	<41		41	8.8	ug/Kg	☼	03/02/15 16:12	03/07/15 02:45	1
Benzo[g,h,i]perylene	<41		41	13	ug/Kg	☼	03/02/15 16:12	03/07/15 02:45	1
Benzo[k]fluoranthene	<41		41	12	ug/Kg	☼	03/02/15 16:12	03/07/15 02:45	1
Bis(2-chloroethoxy)methane	<210		210	42	ug/Kg	☼	03/02/15 16:12	03/07/15 02:45	1
Bis(2-chloroethyl)ether	<210		210	61	ug/Kg	☼	03/02/15 16:12	03/07/15 02:45	1
Bis(2-ethylhexyl) phthalate	<210		210	75	ug/Kg	☼	03/02/15 16:12	03/07/15 02:45	1
Butyl benzyl phthalate	<210		210	78	ug/Kg	☼	03/02/15 16:12	03/07/15 02:45	1
Carbazole	<210		210	110	ug/Kg	☼	03/02/15 16:12	03/07/15 02:45	1
<b>Chrysene</b>	<b>18 J</b>		41	11	ug/Kg	☼	03/02/15 16:12	03/07/15 02:45	1
Dibenz(a,h)anthracene	<41		41	7.9	ug/Kg	☼	03/02/15 16:12	03/07/15 02:45	1
Dibenzofuran	<210		210	48	ug/Kg	☼	03/02/15 16:12	03/07/15 02:45	1
Diethyl phthalate	<210		210	69	ug/Kg	☼	03/02/15 16:12	03/07/15 02:45	1
Dimethyl phthalate	<210		210	53	ug/Kg	☼	03/02/15 16:12	03/07/15 02:45	1
Di-n-butyl phthalate	<210		210	62	ug/Kg	☼	03/02/15 16:12	03/07/15 02:45	1
Di-n-octyl phthalate	<210		210	67	ug/Kg	☼	03/02/15 16:12	03/07/15 02:45	1
Fluoranthene	<41		41	7.6	ug/Kg	☼	03/02/15 16:12	03/07/15 02:45	1
Fluorene	<41		41	5.7	ug/Kg	☼	03/02/15 16:12	03/07/15 02:45	1
Hexachlorobenzene	<82		82	9.5	ug/Kg	☼	03/02/15 16:12	03/07/15 02:45	1
Hexachlorobutadiene	<210		210	64	ug/Kg	☼	03/02/15 16:12	03/07/15 02:45	1
Hexachlorocyclopentadiene	<820		820	230	ug/Kg	☼	03/02/15 16:12	03/07/15 02:45	1
Hexachloroethane	<210		210	62	ug/Kg	☼	03/02/15 16:12	03/07/15 02:45	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - Niles and Glenview - WO 011

TestAmerica Job ID: 500-92697-1

**Client Sample ID: CB2-1(7-15)-022615**

**Lab Sample ID: 500-92697-16**

**Date Collected: 02/26/15 16:15**

**Matrix: Solid**

**Date Received: 02/27/15 12:30**

**Percent Solids: 80.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<41		41	11	ug/Kg	☼	03/02/15 16:12	03/07/15 02:45	1
Isophorone	<210		210	46	ug/Kg	☼	03/02/15 16:12	03/07/15 02:45	1
<b>Naphthalene</b>	<b>24</b>	<b>J</b>	41	6.3	ug/Kg	☼	03/02/15 16:12	03/07/15 02:45	1
Nitrobenzene	<41		41	10	ug/Kg	☼	03/02/15 16:12	03/07/15 02:45	1
N-Nitrosodi-n-propylamine	<210		210	50	ug/Kg	☼	03/02/15 16:12	03/07/15 02:45	1
N-Nitrosodiphenylamine	<210		210	48	ug/Kg	☼	03/02/15 16:12	03/07/15 02:45	1
Pentachlorophenol	<820		820	650	ug/Kg	☼	03/02/15 16:12	03/07/15 02:45	1
<b>Phenanthrene</b>	<b>53</b>		41	5.7	ug/Kg	☼	03/02/15 16:12	03/07/15 02:45	1
Phenol	<210		210	91	ug/Kg	☼	03/02/15 16:12	03/07/15 02:45	1
<b>Pyrene</b>	<b>23</b>	<b>J</b>	41	8.1	ug/Kg	☼	03/02/15 16:12	03/07/15 02:45	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	36		35 - 137				03/02/15 16:12	03/07/15 02:45	1
2-Fluorobiphenyl	51		25 - 119				03/02/15 16:12	03/07/15 02:45	1
2-Fluorophenol	55		25 - 110				03/02/15 16:12	03/07/15 02:45	1
Nitrobenzene-d5	46		25 - 115				03/02/15 16:12	03/07/15 02:45	1
Phenol-d5	58		31 - 110				03/02/15 16:12	03/07/15 02:45	1
Terphenyl-d14	114		36 - 134				03/02/15 16:12	03/07/15 02:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/06/15 09:10	03/06/15 18:51	1
<b>Barium</b>	<b>0.45</b>	<b>J</b>	0.50	0.050	mg/L		03/06/15 09:10	03/06/15 18:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/15 09:10	03/06/15 18:51	1
<b>Cadmium</b>	<b>0.0022</b>	<b>J</b>	0.0050	0.0020	mg/L		03/06/15 09:10	03/06/15 18:51	1
Chromium	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:51	1
<b>Cobalt</b>	<b>0.017</b>	<b>J</b>	0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:51	1
<b>Copper</b>	<b>0.021</b>	<b>J</b>	0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:51	1
Iron	<0.20		0.20	0.20	mg/L		03/06/15 09:10	03/06/15 18:51	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/06/15 09:10	03/06/15 18:51	1
<b>Manganese</b>	<b>2.3</b>		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:51	1
<b>Nickel</b>	<b>0.034</b>		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:51	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/15 09:10	03/06/15 18:51	1
Silver	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:51	1
<b>Zinc</b>	<b>0.034</b>	<b>J</b>	0.10	0.020	mg/L		03/06/15 09:10	03/06/15 18:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/06/15 09:10	03/06/15 19:39	1
<b>Barium</b>	<b>0.051</b>	<b>J</b>	0.50	0.050	mg/L		03/06/15 09:10	03/06/15 19:39	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/15 09:10	03/06/15 19:39	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/06/15 09:10	03/06/15 19:39	1
Chromium	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 19:39	1
Cobalt	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 19:39	1
<b>Copper</b>	<b>0.020</b>	<b>J</b>	0.025	0.010	mg/L		03/06/15 09:10	03/06/15 19:39	1
<b>Iron</b>	<b>1.3</b>		0.20	0.20	mg/L		03/06/15 09:10	03/06/15 19:39	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/06/15 09:10	03/06/15 19:39	1
<b>Manganese</b>	<b>0.027</b>		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 19:39	1
Nickel	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 19:39	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/15 09:10	03/06/15 19:39	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Niles and Glenview - WO 011

TestAmerica Job ID: 500-92697-1

**Client Sample ID: CB2-1(7-15)-022615**

**Lab Sample ID: 500-92697-16**

Date Collected: 02/26/15 16:15

Matrix: Solid

Date Received: 02/27/15 12:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 19:39	1
Zinc	0.040	J	0.10	0.020	mg/L		03/06/15 09:10	03/07/15 22:24	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.2	B	1.2	0.24	mg/Kg	☼	03/02/15 09:51	03/04/15 05:35	1
Arsenic	9.7		0.58	0.27	mg/Kg	☼	03/02/15 09:51	03/04/15 05:35	1
Barium	53		0.58	0.11	mg/Kg	☼	03/02/15 09:51	03/04/15 05:35	1
Beryllium	1.0		0.23	0.051	mg/Kg	☼	03/02/15 09:51	03/04/15 05:35	1
Cadmium	<0.12		0.12	0.034	mg/Kg	☼	03/02/15 09:51	03/04/15 05:35	1
Calcium	38000		12	3.8	mg/Kg	☼	03/02/15 09:51	03/04/15 05:35	1
Chromium	26		0.58	0.10	mg/Kg	☼	03/02/15 09:51	03/04/15 05:35	1
Cobalt	12		0.29	0.066	mg/Kg	☼	03/02/15 09:51	03/04/15 05:35	1
Copper	20		0.58	0.13	mg/Kg	☼	03/02/15 09:51	03/04/15 05:35	1
Iron	27000		12	4.5	mg/Kg	☼	03/02/15 09:51	03/04/15 05:35	1
Lead	12		0.29	0.15	mg/Kg	☼	03/02/15 09:51	03/04/15 05:35	1
Magnesium	21000		5.8	2.4	mg/Kg	☼	03/02/15 09:51	03/04/15 05:35	1
Manganese	340		0.58	0.12	mg/Kg	☼	03/02/15 09:51	03/04/15 05:35	1
Nickel	35		0.58	0.16	mg/Kg	☼	03/02/15 09:51	03/04/15 05:35	1
Potassium	3700		29	4.8	mg/Kg	☼	03/02/15 09:51	03/05/15 02:36	1
Selenium	0.70		0.58	0.29	mg/Kg	☼	03/02/15 09:51	03/04/15 05:35	1
Silver	<0.29		0.29	0.068	mg/Kg	☼	03/02/15 09:51	03/04/15 05:35	1
Sodium	260		58	7.7	mg/Kg	☼	03/02/15 09:51	03/05/15 02:36	1
Thallium	1.5		0.58	0.29	mg/Kg	☼	03/02/15 09:51	03/04/15 05:35	1
Vanadium	23		0.29	0.085	mg/Kg	☼	03/02/15 09:51	03/05/15 02:36	1
Zinc	49		1.2	0.37	mg/Kg	☼	03/02/15 09:51	03/04/15 05:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/06/15 12:00	03/06/15 17:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/06/15 12:00	03/06/15 16:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	25		21	7.2	ug/Kg	☼	03/02/15 15:30	03/03/15 12:08	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.14		0.200	0.200	SU			03/03/15 13:53	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Niles and Glenview - WO 011

TestAmerica Job ID: 500-92697-1

**Client Sample ID: CB2-1(7-15)-022615D**

**Lab Sample ID: 500-92697-17**

**Date Collected: 02/26/15 16:15**

**Matrix: Solid**

**Date Received: 02/27/15 12:30**

**Percent Solids: 80.5**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<6.2		6.2	2.7	ug/Kg	☼		03/05/15 12:11	1
Benzene	<6.2		6.2	0.85	ug/Kg	☼		03/05/15 12:11	1
Bromodichloromethane	<6.2		6.2	1.1	ug/Kg	☼		03/05/15 12:11	1
Bromoform	<6.2		6.2	1.4	ug/Kg	☼		03/05/15 12:11	1
Bromomethane	<6.2		6.2	1.9	ug/Kg	☼		03/05/15 12:11	1
Carbon disulfide	<6.2		6.2	0.93	ug/Kg	☼		03/05/15 12:11	1
Carbon tetrachloride	<6.2		6.2	1.1	ug/Kg	☼		03/05/15 12:11	1
Chlorobenzene	<6.2		6.2	0.63	ug/Kg	☼		03/05/15 12:11	1
Chloroethane	<6.2		6.2	1.7	ug/Kg	☼		03/05/15 12:11	1
Chloroform	<6.2		6.2	0.71	ug/Kg	☼		03/05/15 12:11	1
Chloromethane	<6.2		6.2	1.3	ug/Kg	☼		03/05/15 12:11	1
cis-1,2-Dichloroethene	<6.2		6.2	0.88	ug/Kg	☼		03/05/15 12:11	1
cis-1,3-Dichloropropene	<6.2		6.2	0.82	ug/Kg	☼		03/05/15 12:11	1
Dibromochloromethane	<6.2		6.2	1.1	ug/Kg	☼		03/05/15 12:11	1
1,1-Dichloroethane	<6.2		6.2	0.98	ug/Kg	☼		03/05/15 12:11	1
1,2-Dichloroethane	<6.2		6.2	0.92	ug/Kg	☼		03/05/15 12:11	1
1,1,1-Dichloroethene	<6.2		6.2	1.0	ug/Kg	☼		03/05/15 12:11	1
1,2-Dichloropropane	<6.2		6.2	0.94	ug/Kg	☼		03/05/15 12:11	1
1,3-Dichloropropene, Total	<6.2		6.2	0.82	ug/Kg	☼		03/05/15 12:11	1
Ethylbenzene	<6.2		6.2	1.3	ug/Kg	☼		03/05/15 12:11	1
2-Hexanone	<6.2		6.2	1.8	ug/Kg	☼		03/05/15 12:11	1
Methylene Chloride	<6.2		6.2	1.7	ug/Kg	☼		03/05/15 12:11	1
Methyl Ethyl Ketone	<6.2		6.2	2.2	ug/Kg	☼		03/05/15 12:11	1
methyl isobutyl ketone	<6.2		6.2	1.6	ug/Kg	☼		03/05/15 12:11	1
Methyl tert-butyl ether	<6.2		6.2	1.0	ug/Kg	☼		03/05/15 12:11	1
Styrene	<6.2		6.2	0.82	ug/Kg	☼		03/05/15 12:11	1
1,1,1,2-Tetrachloroethane	<6.2		6.2	1.3	ug/Kg	☼		03/05/15 12:11	1
Tetrachloroethene	<6.2		6.2	0.95	ug/Kg	☼		03/05/15 12:11	1
Toluene	<6.2		6.2	0.87	ug/Kg	☼		03/05/15 12:11	1
trans-1,2-Dichloroethene	<6.2		6.2	0.86	ug/Kg	☼		03/05/15 12:11	1
trans-1,3-Dichloropropene	<6.2		6.2	1.1	ug/Kg	☼		03/05/15 12:11	1
1,1,1-Trichloroethane	<6.2		6.2	0.93	ug/Kg	☼		03/05/15 12:11	1
1,1,2-Trichloroethane	<6.2		6.2	0.85	ug/Kg	☼		03/05/15 12:11	1
Trichloroethene	<6.2		6.2	1.0	ug/Kg	☼		03/05/15 12:11	1
Vinyl chloride	<6.2		6.2	1.3	ug/Kg	☼		03/05/15 12:11	1
Xylenes, Total	<12		12	0.56	ug/Kg	☼		03/05/15 12:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 122		03/05/15 12:11	1
Dibromofluoromethane	88		75 - 120		03/05/15 12:11	1
1,2-Dichloroethane-d4 (Surr)	81		70 - 134		03/05/15 12:11	1
Toluene-d8 (Surr)	98		75 - 122		03/05/15 12:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<200		200	42	ug/Kg	☼	03/02/15 16:12	03/07/15 03:11	1
1,2-Dichlorobenzene	<200		200	47	ug/Kg	☼	03/02/15 16:12	03/07/15 03:11	1
1,3-Dichlorobenzene	<200		200	44	ug/Kg	☼	03/02/15 16:12	03/07/15 03:11	1
1,4-Dichlorobenzene	<200		200	50	ug/Kg	☼	03/02/15 16:12	03/07/15 03:11	1
2,2'-oxybis[1-chloropropane]	<200		200	45	ug/Kg	☼	03/02/15 16:12	03/07/15 03:11	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Niles and Glenview - WO 011

TestAmerica Job ID: 500-92697-1

**Client Sample ID: CB2-1(7-15)-022615D**

**Lab Sample ID: 500-92697-17**

**Date Collected: 02/26/15 16:15**

**Matrix: Solid**

**Date Received: 02/27/15 12:30**

**Percent Solids: 80.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<390		390	89	ug/Kg	☼	03/02/15 16:12	03/07/15 03:11	1
2,4,6-Trichlorophenol	<390		390	130	ug/Kg	☼	03/02/15 16:12	03/07/15 03:11	1
2,4-Dichlorophenol	<390		390	93	ug/Kg	☼	03/02/15 16:12	03/07/15 03:11	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	03/02/15 16:12	03/07/15 03:11	1
2,4-Dinitrophenol	<790	*	790	690	ug/Kg	☼	03/02/15 16:12	03/07/15 03:11	1
2,4-Dinitrotoluene	<200		200	62	ug/Kg	☼	03/02/15 16:12	03/07/15 03:11	1
2,6-Dinitrotoluene	<200		200	77	ug/Kg	☼	03/02/15 16:12	03/07/15 03:11	1
2-Chloronaphthalene	<200		200	43	ug/Kg	☼	03/02/15 16:12	03/07/15 03:11	1
2-Chlorophenol	<200		200	67	ug/Kg	☼	03/02/15 16:12	03/07/15 03:11	1
<b>2-Methylnaphthalene</b>	<b>81</b>		39	7.2	ug/Kg	☼	03/02/15 16:12	03/07/15 03:11	1
2-Methylphenol	<200		200	63	ug/Kg	☼	03/02/15 16:12	03/07/15 03:11	1
2-Nitroaniline	<200		200	53	ug/Kg	☼	03/02/15 16:12	03/07/15 03:11	1
2-Nitrophenol	<390		390	92	ug/Kg	☼	03/02/15 16:12	03/07/15 03:11	1
3 & 4 Methylphenol	<200		200	65	ug/Kg	☼	03/02/15 16:12	03/07/15 03:11	1
3,3'-Dichlorobenzidine	<200		200	55	ug/Kg	☼	03/02/15 16:12	03/07/15 03:11	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	03/02/15 16:12	03/07/15 03:11	1
4,6-Dinitro-2-methylphenol	<390	*	390	310	ug/Kg	☼	03/02/15 16:12	03/07/15 03:11	1
4-Bromophenyl phenyl ether	<200		200	51	ug/Kg	☼	03/02/15 16:12	03/07/15 03:11	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	03/02/15 16:12	03/07/15 03:11	1
4-Chloroaniline	<790		790	180	ug/Kg	☼	03/02/15 16:12	03/07/15 03:11	1
4-Chlorophenyl phenyl ether	<200		200	46	ug/Kg	☼	03/02/15 16:12	03/07/15 03:11	1
4-Nitroaniline	<390		390	160	ug/Kg	☼	03/02/15 16:12	03/07/15 03:11	1
4-Nitrophenol	<790		790	370	ug/Kg	☼	03/02/15 16:12	03/07/15 03:11	1
Acenaphthene	<39		39	7.0	ug/Kg	☼	03/02/15 16:12	03/07/15 03:11	1
Acenaphthylene	<39		39	5.1	ug/Kg	☼	03/02/15 16:12	03/07/15 03:11	1
Anthracene	<39		39	6.5	ug/Kg	☼	03/02/15 16:12	03/07/15 03:11	1
Benzo[a]anthracene	<39		39	5.3	ug/Kg	☼	03/02/15 16:12	03/07/15 03:11	1
Benzo[a]pyrene	<39		39	7.6	ug/Kg	☼	03/02/15 16:12	03/07/15 03:11	1
Benzo[b]fluoranthene	<39		39	8.4	ug/Kg	☼	03/02/15 16:12	03/07/15 03:11	1
Benzo[g,h,i]perylene	<39		39	13	ug/Kg	☼	03/02/15 16:12	03/07/15 03:11	1
Benzo[k]fluoranthene	<39		39	12	ug/Kg	☼	03/02/15 16:12	03/07/15 03:11	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	☼	03/02/15 16:12	03/07/15 03:11	1
Bis(2-chloroethyl)ether	<200		200	59	ug/Kg	☼	03/02/15 16:12	03/07/15 03:11	1
Bis(2-ethylhexyl) phthalate	<200		200	71	ug/Kg	☼	03/02/15 16:12	03/07/15 03:11	1
Butyl benzyl phthalate	<200		200	74	ug/Kg	☼	03/02/15 16:12	03/07/15 03:11	1
Carbazole	<200		200	100	ug/Kg	☼	03/02/15 16:12	03/07/15 03:11	1
Chrysene	<39		39	11	ug/Kg	☼	03/02/15 16:12	03/07/15 03:11	1
Dibenz(a,h)anthracene	<39		39	7.5	ug/Kg	☼	03/02/15 16:12	03/07/15 03:11	1
Dibenzofuran	<200		200	46	ug/Kg	☼	03/02/15 16:12	03/07/15 03:11	1
Diethyl phthalate	<200		200	66	ug/Kg	☼	03/02/15 16:12	03/07/15 03:11	1
Dimethyl phthalate	<200		200	51	ug/Kg	☼	03/02/15 16:12	03/07/15 03:11	1
Di-n-butyl phthalate	<200		200	59	ug/Kg	☼	03/02/15 16:12	03/07/15 03:11	1
Di-n-octyl phthalate	<200		200	64	ug/Kg	☼	03/02/15 16:12	03/07/15 03:11	1
Fluoranthene	<39		39	7.2	ug/Kg	☼	03/02/15 16:12	03/07/15 03:11	1
Fluorene	<39		39	5.5	ug/Kg	☼	03/02/15 16:12	03/07/15 03:11	1
Hexachlorobenzene	<79		79	9.0	ug/Kg	☼	03/02/15 16:12	03/07/15 03:11	1
Hexachlorobutadiene	<200		200	61	ug/Kg	☼	03/02/15 16:12	03/07/15 03:11	1
Hexachlorocyclopentadiene	<790		790	220	ug/Kg	☼	03/02/15 16:12	03/07/15 03:11	1
Hexachloroethane	<200		200	59	ug/Kg	☼	03/02/15 16:12	03/07/15 03:11	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Niles and Glenview - WO 011

TestAmerica Job ID: 500-92697-1

**Client Sample ID: CB2-1(7-15)-022615D**

**Lab Sample ID: 500-92697-17**

Date Collected: 02/26/15 16:15

Matrix: Solid

Date Received: 02/27/15 12:30

Percent Solids: 80.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<39		39	10	ug/Kg	☼	03/02/15 16:12	03/07/15 03:11	1
Isophorone	<200		200	44	ug/Kg	☼	03/02/15 16:12	03/07/15 03:11	1
<b>Naphthalene</b>	<b>28</b>	<b>J</b>	39	6.0	ug/Kg	☼	03/02/15 16:12	03/07/15 03:11	1
Nitrobenzene	<39		39	9.7	ug/Kg	☼	03/02/15 16:12	03/07/15 03:11	1
N-Nitrosodi-n-propylamine	<200		200	48	ug/Kg	☼	03/02/15 16:12	03/07/15 03:11	1
N-Nitrosodiphenylamine	<200		200	46	ug/Kg	☼	03/02/15 16:12	03/07/15 03:11	1
Pentachlorophenol	<790		790	630	ug/Kg	☼	03/02/15 16:12	03/07/15 03:11	1
<b>Phenanthrene</b>	<b>65</b>		39	5.4	ug/Kg	☼	03/02/15 16:12	03/07/15 03:11	1
Phenol	<200		200	87	ug/Kg	☼	03/02/15 16:12	03/07/15 03:11	1
Pyrene	<39		39	7.8	ug/Kg	☼	03/02/15 16:12	03/07/15 03:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	35		35 - 137				03/02/15 16:12	03/07/15 03:11	1
2-Fluorobiphenyl	55		25 - 119				03/02/15 16:12	03/07/15 03:11	1
2-Fluorophenol	59		25 - 110				03/02/15 16:12	03/07/15 03:11	1
Nitrobenzene-d5	51		25 - 115				03/02/15 16:12	03/07/15 03:11	1
Phenol-d5	65		31 - 110				03/02/15 16:12	03/07/15 03:11	1
Terphenyl-d14	159	X	36 - 134				03/02/15 16:12	03/07/15 03:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/06/15 09:10	03/06/15 18:57	1
<b>Barium</b>	<b>0.43</b>	<b>J</b>	0.50	0.050	mg/L		03/06/15 09:10	03/06/15 18:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/15 09:10	03/06/15 18:57	1
<b>Cadmium</b>	<b>0.0020</b>	<b>J</b>	0.0050	0.0020	mg/L		03/06/15 09:10	03/06/15 18:57	1
Chromium	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:57	1
<b>Cobalt</b>	<b>0.027</b>		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:57	1
<b>Copper</b>	<b>0.036</b>		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:57	1
Iron	<0.20		0.20	0.20	mg/L		03/06/15 09:10	03/06/15 18:57	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/06/15 09:10	03/06/15 18:57	1
<b>Manganese</b>	<b>2.2</b>		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:57	1
<b>Nickel</b>	<b>0.056</b>		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:57	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/15 09:10	03/06/15 18:57	1
Silver	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:57	1
<b>Zinc</b>	<b>0.053</b>	<b>J</b>	0.10	0.020	mg/L		03/06/15 09:10	03/06/15 18:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/06/15 09:10	03/06/15 19:43	1
<b>Barium</b>	<b>0.056</b>	<b>J</b>	0.50	0.050	mg/L		03/06/15 09:10	03/06/15 19:43	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/15 09:10	03/06/15 19:43	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/06/15 09:10	03/06/15 19:43	1
Chromium	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 19:43	1
Cobalt	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 19:43	1
<b>Copper</b>	<b>0.027</b>		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 19:43	1
<b>Iron</b>	<b>1.4</b>		0.20	0.20	mg/L		03/06/15 09:10	03/06/15 19:43	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/06/15 09:10	03/06/15 19:43	1
<b>Manganese</b>	<b>0.026</b>		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 19:43	1
Nickel	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 19:43	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/15 09:10	03/06/15 19:43	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Niles and Glenview - WO 011

TestAmerica Job ID: 500-92697-1

**Client Sample ID: CB2-1(7-15)-022615D**

**Lab Sample ID: 500-92697-17**

Date Collected: 02/26/15 16:15

Matrix: Solid

Date Received: 02/27/15 12:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 19:43	1
Zinc	0.045	J	0.10	0.020	mg/L		03/06/15 09:10	03/07/15 22:30	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.98	J B	1.2	0.26	mg/Kg	⊛	03/02/15 09:51	03/04/15 05:42	1
Arsenic	5.4		0.61	0.28	mg/Kg	⊛	03/02/15 09:51	03/04/15 05:42	1
Barium	51		0.61	0.11	mg/Kg	⊛	03/02/15 09:51	03/04/15 05:42	1
Beryllium	1.0		0.25	0.053	mg/Kg	⊛	03/02/15 09:51	03/04/15 05:42	1
Cadmium	<0.12		0.12	0.036	mg/Kg	⊛	03/02/15 09:51	03/04/15 05:42	1
Calcium	37000		12	4.0	mg/Kg	⊛	03/02/15 09:51	03/04/15 05:42	1
Chromium	27		0.61	0.11	mg/Kg	⊛	03/02/15 09:51	03/04/15 05:42	1
Cobalt	13		0.31	0.069	mg/Kg	⊛	03/02/15 09:51	03/04/15 05:42	1
Copper	20		0.61	0.13	mg/Kg	⊛	03/02/15 09:51	03/04/15 05:42	1
Iron	26000		12	4.7	mg/Kg	⊛	03/02/15 09:51	03/04/15 05:42	1
Lead	10		0.31	0.15	mg/Kg	⊛	03/02/15 09:51	03/04/15 05:42	1
Magnesium	21000		6.1	2.5	mg/Kg	⊛	03/02/15 09:51	03/04/15 05:42	1
Manganese	320		0.61	0.12	mg/Kg	⊛	03/02/15 09:51	03/04/15 05:42	1
Nickel	36		0.61	0.17	mg/Kg	⊛	03/02/15 09:51	03/04/15 05:42	1
Potassium	3900		31	5.0	mg/Kg	⊛	03/02/15 09:51	03/05/15 02:41	1
Selenium	0.75		0.61	0.30	mg/Kg	⊛	03/02/15 09:51	03/04/15 05:42	1
Silver	<0.31		0.31	0.072	mg/Kg	⊛	03/02/15 09:51	03/04/15 05:42	1
Sodium	270		61	8.1	mg/Kg	⊛	03/02/15 09:51	03/05/15 02:41	1
Thallium	1.3		0.61	0.30	mg/Kg	⊛	03/02/15 09:51	03/04/15 05:42	1
Vanadium	23		0.31	0.090	mg/Kg	⊛	03/02/15 09:51	03/05/15 02:41	1
Zinc	49		1.2	0.39	mg/Kg	⊛	03/02/15 09:51	03/04/15 05:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/06/15 12:00	03/06/15 17:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/06/15 12:00	03/06/15 16:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	24		20	7.1	ug/Kg	⊛	03/02/15 15:30	03/03/15 12:10	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.14		0.200	0.200	SU			03/03/15 13:56	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Niles and Glenview - WO 011

TestAmerica Job ID: 500-92697-1

## Qualifiers

### GC/MS VOA

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

### GC/MS Semi VOA

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

### Metals

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

## Glossary

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

# Certification Summary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Niles and Glenview - WO 011

TestAmerica Job ID: 500-92697-1

## Laboratory: TestAmerica Chicago

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

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

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

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

\* Certification renewal pending - certification considered valid.



# TestAmerica

THE LEADER IN ENVIRONMENTAL

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



500-92697 COC

Report To (optional)  
Contact: S. Babusukumar  
Company: Weston Solutions  
Address: 300 Plaza Circle #202  
Address: Mundelein, IL 60060  
Phone: 224-864-7250  
Fax:  
E-Mail: Saba.Babusukumar@westonsolutions.com

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

## Chain of Custody Record

Lab Job #: 500-92697

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

Page 1 of 2

Temperature °C of Cooler: 3.1

Client		Client Project #		Preservative							Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		Parameter								
Project Location/State		Lab PM										
Sampler												
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCS	SVOCS	metals	TCU/SLU metals	PH	Comments
1		MG-2(0-1)-022615	2-26-15	10:00	2	SO	X	X	X	X	X	
2		MG-1(0-7)-022615		10:25								
<del>MG-1(0-7)-022615</del>												
3		MG-1(7-15)-022615		10:30								
4		MG-1(7-15)-022615 D		10:30								
5		AB-1(0-1)-022615		10:45								
6		CB1-1(0-1)-022615		11:10								
7		GD-1(0-1)-022615		11:25								
8		MS-1(0-1)-022615		12:00								
9		GD-2(0-7)-022615	2-26-15	13:40	2	SO	X	X	X	X	X	

Turnaround Time Required (Business Days)

\_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days \_\_\_ 10 Days \_\_\_ 15 Days std 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>Shirley Ann</u> Company <u>Weston</u> Date <u>2-27-15</u> Time <u>1045</u>	Received By <u>Shirley Ann</u> Company <u>TA</u> Date <u>2/27/15</u> Time <u>1045</u>	Lab Courier <u>TA</u>
Relinquished By <u>Shirley Ann</u> Company <u>TA</u> Date <u>2/27/15</u> Time <u>1230</u>	Received By <u>Shirley Ann</u> Company <u>TA-CHE</u> Date <u>2/27/15</u> Time <u>1230</u>	Shipped _____
Relinquished By _____ Company _____ Date _____ Time _____	Received By _____ Company _____ Date _____ Time _____	Hand Delivered _____

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

Client Comments

Lab Comments:



Report To: (optional) S. Babusukumar  
 Contact: S. Babusukumar  
 Company: Weston Solutions, Inc.  
 Address: 300 Plaza Circle #202  
 Address: Murderlein, IL 60060  
 Phone: 224-804-7250  
 Fax: \_\_\_\_\_  
 E-Mail: S.Babusukumar@westonsolutions.com

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

## Chain of Custody Record

Lab Job #: 500-92697  
 Chain of Custody Number: \_\_\_\_\_  
 Page 2 of 2  
 Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter					Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		Parameter		Parameter						
Project Location/State		Lab PM		Parameter		Parameter						
Sampler		Lab PM		Parameter		Parameter						
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCS	SVOCS	metals	TCLP/ SPLP metals	PH	Comments
10		GD-2(7-15)-022615	2/26/15	13:45	2	SO	X	X	X	X	X	
11		TU-1(0-7)-022615		14:40	1							
12		TU-1(7-15)-022615		14:45	1							
13		GM-1(0-7)-022615		15:25	1							
14		GM-1(7-15)-022615		15:30	1							
15		CB2-1(0-7)-022615		16:10	1							
16		CB2-1(7-15)-022615		16:15	1							
17		CB2-1(7-15)-022615	2/26/15	16:15	2	SO	X	X	X	X	X	
* last item *												

Turnaround Time Required (Business Days)

1 Day  2 Days  5 Days  7 Days  10 Days  15 Days  std 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>David Allen</u> Company: <u>Weston</u> Date: <u>2/27/15</u> Time: <u>10:45</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>2/27/15</u> Time: <u>10:45</u>
Relinquished By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>2/27/15</u> Time: <u>12:30</u>	Received By: <u>[Signature]</u> Company: <u>TA-INT</u> Date: <u>2/27/15</u> Time: <u>12:30</u>

Lab Courier: TA  
 Shipped: \_\_\_\_\_  
 Hand Delivered: \_\_\_\_\_

Matrix Key

WW - Wastewater SE - Sediment  
 W - Water SO - Soil  
 S - Sill 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 374: IL 21 at IL 58 and Greenwood Ave Office Phone Number, if available: \_\_\_\_\_

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

9650 Milwaukee Avenue (ISGS Site No. 2825-33)

City: Niles State: IL Zip Code: \_\_\_\_\_

County: Cook Township: \_\_\_\_\_

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

Latitude: 42.056669301 Longitude: -87.840476446  
(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 374: IL 21 at IL 58 and Greenwood Ave

Latitude: 42.056669301 Longitude: -87.840476446

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. 2825-33. SEE FIGURE 3-1 AND TABLE 4-1 OF THE PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

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

TEST AMERICA ANALYTICAL REPORT - JOB ID: 500-92697-1. ALSO SEE FIGURE 4-1 OF THE REVISED PRELIMINARY SITE INVESTIGATION REPORT.

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

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

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

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

Michael A. Castillo, P.G.  
 Printed Name:

Michael Castillo

April 15, 2015

Licensed Professional Engineer or  
 Licensed Professional Geologist Signature:

Date:



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

**Summary Table of ISGS Site No. 2825-33**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 374: Illinois Route 21 at Illinois Route 58 and Greenwood Avenue**  
**Niles and Glenview, Cook County, Illinois**

Field Sample ID	MG-1(0-7)-022615	MG-1(7-15)-022615	MG-1(7-15)-022615D	MG-2(0-1)-022615	Soil Reference Concentrations <sup>A</sup>
Sample Date	2/26/2015	2/26/2015	2/26/2015	2/26/2015	
Location ID	MG-1	MG-1	MG-1	MG-2	
Depth	0 - 7	7 - 15	7 - 15	0 - 1	
ISGS Site No.	2825-33	2825-33	2825-33	2825-33	
Parameter					
Laboratory pH	8.71	7.86	7.96	8.57	<6.25,>9.0
<b>VOCs (ug/kg)</b>					
Acetone	ND	6.9	ND	ND	25000
<b>SVOCs (ug/kg)</b>					
2-Methylnaphthalene	ND	29 J	ND	ND	---
Acenaphthene	ND	ND	ND	260 J	570000
Acenaphthylene	ND	ND	ND	29 J	---
Anthracene	14 J	ND	ND	550	1.20E+07
Benzo(a)anthracene	91	ND	ND	3700 J-	900 / 1100 / 1800
Benzo(a)pyrene	100	ND	ND	4400 J	90 / 1300 / 2100
Benzo(b)fluoranthene	150	ND	ND	6700 J+	900 / 1500 / 2100
Benzo(g,h,i)perylene	100	ND	ND	3900 J	---
Benzo(k)fluoranthene	70	ND	ND	3800 J	9000
bis(2-Ethylhexyl)phthalate	ND	ND	ND	1300	46000
Butyl benzyl phthalate	ND	ND	ND	880 J	930000
Carbazole	ND	ND	ND	430 J	600
Chrysene	120	ND	11 J	4900 J	88000
Dibenzo(a,h)anthracene	22 J	ND	ND	ND	90 / 200 / 420
Fluoranthene	210	ND	ND	16000 J+	3100000
Fluorene	ND	ND	ND	190 J	560000
Indeno(1,2,3-cd)pyrene	79	ND	ND	3100 J	900 / 900 / 1600
Naphthalene, SVOC	ND	10 J	ND	ND	1800
Phenanthrene	98	25 J	ND	5400 J	---
Pyrene	200	ND	12 J	7900 J+	2300000
<b>Total Metals (mg/kg)</b>					
Arsenic, Total	7.9 J-	5 J-	5.9 J-	9.1 J-	11.3 / 13
Barium, Total	86 J	63 J	71 J	100 J	1500
Beryllium, Total	0.86	0.85	0.94	0.56	22
Cadmium, Total	0.14 J	ND	ND	0.63 J	5.2
Calcium, Total	26000 J	50000 J	44000 J	85000 J	---
Chromium, Total	23	25	24	34	21
Cobalt, Total	11 J	13 J	14 J	8.1 J	20
Copper, Total	26 J	23 J	24 J	42 J	2900
Iron, Total	24000 J	22000 J	24000 J	20000 J	15000 / 15900
Lead, Total	65 J	11 J	11 J	280 J	107
Magnesium, Total	15000 J	24000 J	23000 J	41000 J	325000
Manganese, Total	420 J	390 J	350 J	380 J	630 / 636
Mercury, Total	0.047 J	0.019 J	0.02 J	0.043 J	0.89
Nickel, Total	25	34	35	22	100
Potassium, Total	1900 J+	3300 J+	3300 J+	1800 J+	---
Selenium, Total	0.92	0.64	0.81	0.62	1.3
Silver, Total	0.09 J	0.11 J	0.082 J	0.15 J	4.4
Sodium, Total	1700	360	500	760	---
Thallium, Total	1.4	1.7	1.5	1.2	2.6
Vanadium, Total	25	22	21	17	550
Zinc, Total	60 J	48 J	51 J	150 J	5100

**Summary Table of ISGS Site No. 2825-33**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 374: Illinois Route 21 at Illinois Route 58 and Greenwood Avenue**  
**Niles and Glenview, Cook County, Illinois**

Field Sample ID	MG-1(0-7)-022615	MG-1(7-15)-022615	MG-1(7-15)-022615D	MG-2(0-1)-022615	Soil Reference Concentrations <sup>A</sup>
Sample Date	2/26/2015	2/26/2015	2/26/2015	2/26/2015	
Location ID	MG-1	MG-1	MG-1	MG-2	
Depth	0 - 7	7 - 15	7 - 15	0 - 1	
ISGS Site No.	2825-33	2825-33	2825-33	2825-33	
Parameter					
<b>TCLP Metals (mg/l)</b>					
Barium, TCLP	0.39 J	0.58	0.11 J	0.41 J	2
Cadmium, TCLP	0.0032 J	0.0024 J	0.0023 J	0.0053	0.005
Cobalt, TCLP	ND	0.01 J	ND	ND	1
Copper, TCLP	0.014 J	0.013 J	0.037	0.018 J	0.65
Iron, TCLP	ND	0.2	0.23	ND	5
Lead, TCLP	0.011	ND	ND	0.061	0.0075
Manganese, TCLP	0.29	2	2	0.93	0.15
Nickel, TCLP	ND	0.018 J	ND	ND	0.1
Zinc, TCLP	0.057 J	0.037 J	0.052 J	0.22	5
<b>SPLP Metals (mg/l)</b>					
Arsenic, SPLP	0.058	0.011 J	ND	0.029 J	0.05
Barium, SPLP	0.83	0.18 J	ND	0.26 J	2
Beryllium, SPLP	0.0086	ND	ND	ND	0.004
Chromium, SPLP	0.21	0.027	ND	0.082	0.1
Cobalt, SPLP	0.058	ND	ND	0.02 J	1
Copper, SPLP	0.2	0.092 J	0.035 J	0.13	0.65
Iron, SPLP	180 J+	13 J	0.22 J	61 J+	5
Lead, SPLP	0.42	0.02 J	ND	0.36	0.0075
Manganese, SPLP	0.94	0.19 J	0.026 J	0.33	0.15
Nickel, SPLP	0.22	0.021 J	ND	0.074	0.1
Zinc, SPLP	0.66	0.089 J	0.046 J	0.38	5
Percent Solids	81	79	81	78	

**Notes:**

--- - not applicable or value not available.

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

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

J- - Estimated concentration, biased 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: 500-92697-1  
Client Project/Site: IDOT - Niles and Glenview - WO 011

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

Attn: Mr. S. Babusukumar



Authorized for release by:  
3/10/2015 4:21:48 PM

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

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

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

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# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Niles and Glenview - WO 011

TestAmerica Job ID: 500-92697-1

**Client Sample ID: MG-1(0-7)-022615**

**Lab Sample ID: 500-92697-2**

**Date Collected: 02/26/15 10:25**

**Matrix: Solid**

**Date Received: 02/27/15 12:30**

**Percent Solids: 81.2**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<6.2		6.2	2.7	ug/Kg	☼		03/03/15 15:51	1
Benzene	<6.2		6.2	0.84	ug/Kg	☼		03/03/15 15:51	1
Bromodichloromethane	<6.2		6.2	1.1	ug/Kg	☼		03/03/15 15:51	1
Bromoform	<6.2		6.2	1.4	ug/Kg	☼		03/03/15 15:51	1
Bromomethane	<6.2		6.2	1.9	ug/Kg	☼		03/03/15 15:51	1
Carbon disulfide	<6.2		6.2	0.92	ug/Kg	☼		03/03/15 15:51	1
Carbon tetrachloride	<6.2	*	6.2	1.1	ug/Kg	☼		03/03/15 15:51	1
Chlorobenzene	<6.2		6.2	0.62	ug/Kg	☼		03/03/15 15:51	1
Chloroethane	<6.2		6.2	1.7	ug/Kg	☼		03/03/15 15:51	1
Chloroform	<6.2		6.2	0.71	ug/Kg	☼		03/03/15 15:51	1
Chloromethane	<6.2		6.2	1.3	ug/Kg	☼		03/03/15 15:51	1
cis-1,2-Dichloroethene	<6.2		6.2	0.87	ug/Kg	☼		03/03/15 15:51	1
cis-1,3-Dichloropropene	<6.2		6.2	0.81	ug/Kg	☼		03/03/15 15:51	1
Dibromochloromethane	<6.2		6.2	1.1	ug/Kg	☼		03/03/15 15:51	1
1,1-Dichloroethane	<6.2		6.2	0.97	ug/Kg	☼		03/03/15 15:51	1
1,2-Dichloroethane	<6.2		6.2	0.91	ug/Kg	☼		03/03/15 15:51	1
1,1,1-Dichloroethane	<6.2		6.2	1.0	ug/Kg	☼		03/03/15 15:51	1
1,2-Dichloropropane	<6.2		6.2	0.93	ug/Kg	☼		03/03/15 15:51	1
1,3-Dichloropropene, Total	<6.2		6.2	0.81	ug/Kg	☼		03/03/15 15:51	1
Ethylbenzene	<6.2		6.2	1.2	ug/Kg	☼		03/03/15 15:51	1
2-Hexanone	<6.2		6.2	1.8	ug/Kg	☼		03/03/15 15:51	1
Methylene Chloride	<6.2		6.2	1.7	ug/Kg	☼		03/03/15 15:51	1
Methyl Ethyl Ketone	<6.2		6.2	2.2	ug/Kg	☼		03/03/15 15:51	1
methyl isobutyl ketone	<6.2		6.2	1.6	ug/Kg	☼		03/03/15 15:51	1
Methyl tert-butyl ether	<6.2		6.2	1.0	ug/Kg	☼		03/03/15 15:51	1
Styrene	<6.2		6.2	0.81	ug/Kg	☼		03/03/15 15:51	1
1,1,1,2-Tetrachloroethane	<6.2		6.2	1.2	ug/Kg	☼		03/03/15 15:51	1
Tetrachloroethene	<6.2		6.2	0.94	ug/Kg	☼		03/03/15 15:51	1
Toluene	<6.2		6.2	0.86	ug/Kg	☼		03/03/15 15:51	1
trans-1,2-Dichloroethene	<6.2		6.2	0.85	ug/Kg	☼		03/03/15 15:51	1
trans-1,3-Dichloropropene	<6.2		6.2	1.1	ug/Kg	☼		03/03/15 15:51	1
1,1,1-Trichloroethane	<6.2		6.2	0.92	ug/Kg	☼		03/03/15 15:51	1
1,1,2-Trichloroethane	<6.2		6.2	0.84	ug/Kg	☼		03/03/15 15:51	1
Trichloroethene	<6.2		6.2	1.0	ug/Kg	☼		03/03/15 15:51	1
Vinyl chloride	<6.2		6.2	1.3	ug/Kg	☼		03/03/15 15:51	1
Xylenes, Total	<12		12	0.56	ug/Kg	☼		03/03/15 15:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 122		03/03/15 15:51	1
Dibromofluoromethane	81		75 - 120		03/03/15 15:51	1
1,2-Dichloroethane-d4 (Surr)	76		70 - 134		03/03/15 15:51	1
Toluene-d8 (Surr)	99		75 - 122		03/03/15 15:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<200		200	43	ug/Kg	☼	03/09/15 18:15	03/10/15 12:16	1
1,2-Dichlorobenzene	<200		200	47	ug/Kg	☼	03/09/15 18:15	03/10/15 12:16	1
1,3-Dichlorobenzene	<200		200	45	ug/Kg	☼	03/09/15 18:15	03/10/15 12:16	1
1,4-Dichlorobenzene	<200		200	51	ug/Kg	☼	03/09/15 18:15	03/10/15 12:16	1
2,2'-oxybis[1-chloropropane]	<200		200	46	ug/Kg	☼	03/09/15 18:15	03/10/15 12:16	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Niles and Glenview - WO 011

TestAmerica Job ID: 500-92697-1

**Client Sample ID: MG-1(0-7)-022615**

**Lab Sample ID: 500-92697-2**

**Date Collected: 02/26/15 10:25**

**Matrix: Solid**

**Date Received: 02/27/15 12:30**

**Percent Solids: 81.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<390		390	91	ug/Kg	☼	03/09/15 18:15	03/10/15 12:16	1
2,4,6-Trichlorophenol	<390		390	140	ug/Kg	☼	03/09/15 18:15	03/10/15 12:16	1
2,4-Dichlorophenol	<390		390	94	ug/Kg	☼	03/09/15 18:15	03/10/15 12:16	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	03/09/15 18:15	03/10/15 12:16	1
2,4-Dinitrophenol	<800		800	700	ug/Kg	☼	03/09/15 18:15	03/10/15 12:16	1
2,4-Dinitrotoluene	<200		200	63	ug/Kg	☼	03/09/15 18:15	03/10/15 12:16	1
2,6-Dinitrotoluene	<200		200	78	ug/Kg	☼	03/09/15 18:15	03/10/15 12:16	1
2-Chloronaphthalene	<200		200	44	ug/Kg	☼	03/09/15 18:15	03/10/15 12:16	1
2-Chlorophenol	<200		200	68	ug/Kg	☼	03/09/15 18:15	03/10/15 12:16	1
2-Methylnaphthalene	<39		39	7.3	ug/Kg	☼	03/09/15 18:15	03/10/15 12:16	1
2-Methylphenol	<200		200	64	ug/Kg	☼	03/09/15 18:15	03/10/15 12:16	1
2-Nitroaniline	<200		200	53	ug/Kg	☼	03/09/15 18:15	03/10/15 12:16	1
2-Nitrophenol	<390		390	94	ug/Kg	☼	03/09/15 18:15	03/10/15 12:16	1
3 & 4 Methylphenol	<200		200	66	ug/Kg	☼	03/09/15 18:15	03/10/15 12:16	1
3,3'-Dichlorobenzidine	<200		200	56	ug/Kg	☼	03/09/15 18:15	03/10/15 12:16	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	03/09/15 18:15	03/10/15 12:16	1
4,6-Dinitro-2-methylphenol	<390		390	320	ug/Kg	☼	03/09/15 18:15	03/10/15 12:16	1
4-Bromophenyl phenyl ether	<200		200	52	ug/Kg	☼	03/09/15 18:15	03/10/15 12:16	1
4-Chloro-3-methylphenol	<390		390	140	ug/Kg	☼	03/09/15 18:15	03/10/15 12:16	1
4-Chloroaniline	<800		800	190	ug/Kg	☼	03/09/15 18:15	03/10/15 12:16	1
4-Chlorophenyl phenyl ether	<200		200	46	ug/Kg	☼	03/09/15 18:15	03/10/15 12:16	1
4-Nitroaniline	<390		390	170	ug/Kg	☼	03/09/15 18:15	03/10/15 12:16	1
4-Nitrophenol	<800		800	380	ug/Kg	☼	03/09/15 18:15	03/10/15 12:16	1
Acenaphthene	<39		39	7.1	ug/Kg	☼	03/09/15 18:15	03/10/15 12:16	1
Acenaphthylene	<39		39	5.2	ug/Kg	☼	03/09/15 18:15	03/10/15 12:16	1
<b>Anthracene</b>	<b>14</b>	<b>J</b>	39	6.6	ug/Kg	☼	03/09/15 18:15	03/10/15 12:16	1
<b>Benzo[a]anthracene</b>	<b>91</b>		39	5.3	ug/Kg	☼	03/09/15 18:15	03/10/15 12:16	1
<b>Benzo[a]pyrene</b>	<b>100</b>		39	7.7	ug/Kg	☼	03/09/15 18:15	03/10/15 12:16	1
<b>Benzo[b]fluoranthene</b>	<b>150</b>		39	8.6	ug/Kg	☼	03/09/15 18:15	03/10/15 12:16	1
<b>Benzo[g,h,i]perylene</b>	<b>100</b>		39	13	ug/Kg	☼	03/09/15 18:15	03/10/15 12:16	1
<b>Benzo[k]fluoranthene</b>	<b>70</b>		39	12	ug/Kg	☼	03/09/15 18:15	03/10/15 12:16	1
Bis(2-chloroethoxy)methane	<200		200	41	ug/Kg	☼	03/09/15 18:15	03/10/15 12:16	1
Bis(2-chloroethyl)ether	<200		200	60	ug/Kg	☼	03/09/15 18:15	03/10/15 12:16	1
Bis(2-ethylhexyl) phthalate	<200		200	73	ug/Kg	☼	03/09/15 18:15	03/10/15 12:16	1
Butyl benzyl phthalate	<200		200	76	ug/Kg	☼	03/09/15 18:15	03/10/15 12:16	1
Carbazole	<200		200	100	ug/Kg	☼	03/09/15 18:15	03/10/15 12:16	1
<b>Chrysene</b>	<b>120</b>		39	11	ug/Kg	☼	03/09/15 18:15	03/10/15 12:16	1
<b>Dibenz(a,h)anthracene</b>	<b>22</b>	<b>J *</b>	39	7.7	ug/Kg	☼	03/09/15 18:15	03/10/15 12:16	1
Dibenzofuran	<200		200	47	ug/Kg	☼	03/09/15 18:15	03/10/15 12:16	1
Diethyl phthalate	<200		200	67	ug/Kg	☼	03/09/15 18:15	03/10/15 12:16	1
Dimethyl phthalate	<200		200	52	ug/Kg	☼	03/09/15 18:15	03/10/15 12:16	1
Di-n-butyl phthalate	<200		200	61	ug/Kg	☼	03/09/15 18:15	03/10/15 12:16	1
Di-n-octyl phthalate	<200		200	65	ug/Kg	☼	03/09/15 18:15	03/10/15 12:16	1
<b>Fluoranthene</b>	<b>210</b>		39	7.4	ug/Kg	☼	03/09/15 18:15	03/10/15 12:16	1
Fluorene	<39		39	5.6	ug/Kg	☼	03/09/15 18:15	03/10/15 12:16	1
Hexachlorobenzene	<80		80	9.2	ug/Kg	☼	03/09/15 18:15	03/10/15 12:16	1
Hexachlorobutadiene	<200		200	62	ug/Kg	☼	03/09/15 18:15	03/10/15 12:16	1
Hexachlorocyclopentadiene	<800	*	800	230	ug/Kg	☼	03/09/15 18:15	03/10/15 12:16	1
Hexachloroethane	<200		200	60	ug/Kg	☼	03/09/15 18:15	03/10/15 12:16	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Niles and Glenview - WO 011

TestAmerica Job ID: 500-92697-1

**Client Sample ID: MG-1(0-7)-022615**

**Lab Sample ID: 500-92697-2**

**Date Collected: 02/26/15 10:25**

**Matrix: Solid**

**Date Received: 02/27/15 12:30**

**Percent Solids: 81.2**

**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>79</b>		39	10	ug/Kg	☼	03/09/15 18:15	03/10/15 12:16	1
Isophorone	<200		200	45	ug/Kg	☼	03/09/15 18:15	03/10/15 12:16	1
Naphthalene	<39		39	6.1	ug/Kg	☼	03/09/15 18:15	03/10/15 12:16	1
Nitrobenzene	<39		39	9.9	ug/Kg	☼	03/09/15 18:15	03/10/15 12:16	1
N-Nitrosodi-n-propylamine	<200		200	49	ug/Kg	☼	03/09/15 18:15	03/10/15 12:16	1
N-Nitrosodiphenylamine	<200		200	47	ug/Kg	☼	03/09/15 18:15	03/10/15 12:16	1
Pentachlorophenol	<800		800	640	ug/Kg	☼	03/09/15 18:15	03/10/15 12:16	1
<b>Phenanthrene</b>	<b>98</b>		39	5.5	ug/Kg	☼	03/09/15 18:15	03/10/15 12:16	1
Phenol	<200		200	88	ug/Kg	☼	03/09/15 18:15	03/10/15 12:16	1
<b>Pyrene</b>	<b>200</b>		39	7.9	ug/Kg	☼	03/09/15 18:15	03/10/15 12:16	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	39		35 - 137				03/09/15 18:15	03/10/15 12:16	1
2-Fluorobiphenyl	50		25 - 119				03/09/15 18:15	03/10/15 12:16	1
2-Fluorophenol	43		25 - 110				03/09/15 18:15	03/10/15 12:16	1
Nitrobenzene-d5	42		25 - 115				03/09/15 18:15	03/10/15 12:16	1
Phenol-d5	49		31 - 110				03/09/15 18:15	03/10/15 12:16	1
Terphenyl-d14	63		36 - 134				03/09/15 18:15	03/10/15 12:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/06/15 09:10	03/06/15 17:12	1
<b>Barium</b>	<b>0.39</b>	<b>J</b>	0.50	0.050	mg/L		03/06/15 09:10	03/06/15 17:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/15 09:10	03/06/15 17:12	1
<b>Cadmium</b>	<b>0.0032</b>	<b>J</b>	0.0050	0.0020	mg/L		03/06/15 09:10	03/06/15 17:12	1
Chromium	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 17:12	1
Cobalt	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 17:12	1
<b>Copper</b>	<b>0.014</b>	<b>J</b>	0.025	0.010	mg/L		03/06/15 09:10	03/06/15 17:12	1
Iron	<0.20		0.20	0.20	mg/L		03/06/15 09:10	03/06/15 17:12	1
<b>Lead</b>	<b>0.011</b>		0.0075	0.0075	mg/L		03/06/15 09:10	03/06/15 17:12	1
<b>Manganese</b>	<b>0.29</b>		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 17:12	1
Nickel	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 17:12	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/15 09:10	03/06/15 17:12	1
Silver	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 17:12	1
<b>Zinc</b>	<b>0.057</b>	<b>J</b>	0.10	0.020	mg/L		03/06/15 09:10	03/06/15 17:12	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		03/06/15 09:10	03/06/15 18:20	1
<b>Barium</b>	<b>0.83</b>		0.50	0.050	mg/L		03/06/15 09:10	03/06/15 18:20	1
<b>Beryllium</b>	<b>0.0086</b>		0.0040	0.0040	mg/L		03/06/15 09:10	03/06/15 18:20	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/06/15 09:10	03/06/15 18:20	1
<b>Chromium</b>	<b>0.21</b>		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:20	1
<b>Cobalt</b>	<b>0.058</b>		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:20	1
<b>Copper</b>	<b>0.20</b>		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:20	1
<b>Iron</b>	<b>180</b>		0.20	0.20	mg/L		03/06/15 09:10	03/06/15 18:20	1
<b>Lead</b>	<b>0.42</b>		0.0075	0.0075	mg/L		03/06/15 09:10	03/07/15 21:13	1
<b>Manganese</b>	<b>0.94</b>		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:20	1
<b>Nickel</b>	<b>0.22</b>		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:20	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/15 09:10	03/06/15 18:20	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Niles and Glenview - WO 011

TestAmerica Job ID: 500-92697-1

**Client Sample ID: MG-1(0-7)-022615**

**Lab Sample ID: 500-92697-2**

Date Collected: 02/26/15 10:25

Matrix: Solid

Date Received: 02/27/15 12:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:20	1
Zinc	0.66		0.10	0.020	mg/L		03/06/15 09:10	03/06/15 18:20	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.4	B	1.2	0.24	mg/Kg	☼	03/02/15 09:51	03/04/15 03:13	1
Arsenic	7.9		0.59	0.27	mg/Kg	☼	03/02/15 09:51	03/04/15 03:13	1
Barium	86		0.59	0.11	mg/Kg	☼	03/02/15 09:51	03/04/15 03:13	1
Beryllium	0.86		0.24	0.051	mg/Kg	☼	03/02/15 09:51	03/04/15 03:13	1
Cadmium	0.14		0.12	0.034	mg/Kg	☼	03/02/15 09:51	03/04/15 03:13	1
Calcium	26000		120	38	mg/Kg	☼	03/02/15 09:51	03/05/15 00:50	10
Chromium	23		0.59	0.10	mg/Kg	☼	03/02/15 09:51	03/04/15 03:13	1
Cobalt	11		0.29	0.066	mg/Kg	☼	03/02/15 09:51	03/04/15 03:13	1
Copper	26		0.59	0.13	mg/Kg	☼	03/02/15 09:51	03/04/15 03:13	1
Iron	24000		12	4.5	mg/Kg	☼	03/02/15 09:51	03/04/15 03:13	1
Lead	65		0.29	0.15	mg/Kg	☼	03/02/15 09:51	03/04/15 03:13	1
Magnesium	15000		5.9	2.4	mg/Kg	☼	03/02/15 09:51	03/04/15 03:13	1
Manganese	420		0.59	0.12	mg/Kg	☼	03/02/15 09:51	03/04/15 03:13	1
Nickel	25		0.59	0.16	mg/Kg	☼	03/02/15 09:51	03/04/15 03:13	1
Potassium	1900		29	4.8	mg/Kg	☼	03/02/15 09:51	03/05/15 00:26	1
Selenium	0.92		0.59	0.29	mg/Kg	☼	03/02/15 09:51	03/04/15 03:13	1
Silver	0.090	J	0.29	0.069	mg/Kg	☼	03/02/15 09:51	03/04/15 03:13	1
Sodium	1700		59	7.8	mg/Kg	☼	03/02/15 09:51	03/05/15 00:26	1
Thallium	1.4		0.59	0.29	mg/Kg	☼	03/02/15 09:51	03/04/15 03:13	1
Vanadium	25		0.29	0.086	mg/Kg	☼	03/02/15 09:51	03/05/15 00:26	1
Zinc	60		1.2	0.37	mg/Kg	☼	03/02/15 09:51	03/04/15 03:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/06/15 12:00	03/06/15 17:15	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		03/06/15 12:00	03/06/15 16:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	47		18	6.3	ug/Kg	☼	03/02/15 15:30	03/03/15 11:33	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.71		0.200	0.200	SU			03/03/15 13:02	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Niles and Glenview - WO 011

TestAmerica Job ID: 500-92697-1

**Client Sample ID: MG-1(7-15)-022615**

**Lab Sample ID: 500-92697-3**

**Date Collected: 02/26/15 10:30**

**Matrix: Solid**

**Date Received: 02/27/15 12:30**

**Percent Solids: 79.4**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	6.9		6.3	2.7	ug/Kg	☼		03/03/15 16:15	1
Benzene	<6.3		6.3	0.86	ug/Kg	☼		03/03/15 16:15	1
Bromodichloromethane	<6.3		6.3	1.1	ug/Kg	☼		03/03/15 16:15	1
Bromoform	<6.3		6.3	1.4	ug/Kg	☼		03/03/15 16:15	1
Bromomethane	<6.3		6.3	1.9	ug/Kg	☼		03/03/15 16:15	1
Carbon disulfide	<6.3		6.3	0.94	ug/Kg	☼		03/03/15 16:15	1
Carbon tetrachloride	<6.3 *		6.3	1.1	ug/Kg	☼		03/03/15 16:15	1
Chlorobenzene	<6.3		6.3	0.64	ug/Kg	☼		03/03/15 16:15	1
Chloroethane	<6.3		6.3	1.7	ug/Kg	☼		03/03/15 16:15	1
Chloroform	<6.3		6.3	0.72	ug/Kg	☼		03/03/15 16:15	1
Chloromethane	<6.3		6.3	1.3	ug/Kg	☼		03/03/15 16:15	1
cis-1,2-Dichloroethene	<6.3		6.3	0.89	ug/Kg	☼		03/03/15 16:15	1
cis-1,3-Dichloropropene	<6.3		6.3	0.83	ug/Kg	☼		03/03/15 16:15	1
Dibromochloromethane	<6.3		6.3	1.1	ug/Kg	☼		03/03/15 16:15	1
1,1-Dichloroethane	<6.3		6.3	1.0	ug/Kg	☼		03/03/15 16:15	1
1,2-Dichloroethane	<6.3		6.3	0.93	ug/Kg	☼		03/03/15 16:15	1
1,1,1-Dichloroethene	<6.3		6.3	1.0	ug/Kg	☼		03/03/15 16:15	1
1,2-Dichloropropane	<6.3		6.3	0.96	ug/Kg	☼		03/03/15 16:15	1
1,3-Dichloropropene, Total	<6.3		6.3	0.83	ug/Kg	☼		03/03/15 16:15	1
Ethylbenzene	<6.3		6.3	1.3	ug/Kg	☼		03/03/15 16:15	1
2-Hexanone	<6.3		6.3	1.8	ug/Kg	☼		03/03/15 16:15	1
Methylene Chloride	<6.3		6.3	1.7	ug/Kg	☼		03/03/15 16:15	1
Methyl Ethyl Ketone	<6.3		6.3	2.3	ug/Kg	☼		03/03/15 16:15	1
methyl isobutyl ketone	<6.3		6.3	1.6	ug/Kg	☼		03/03/15 16:15	1
Methyl tert-butyl ether	<6.3		6.3	1.0	ug/Kg	☼		03/03/15 16:15	1
Styrene	<6.3		6.3	0.83	ug/Kg	☼		03/03/15 16:15	1
1,1,1,2-Tetrachloroethane	<6.3		6.3	1.3	ug/Kg	☼		03/03/15 16:15	1
Tetrachloroethene	<6.3		6.3	0.96	ug/Kg	☼		03/03/15 16:15	1
Toluene	<6.3		6.3	0.88	ug/Kg	☼		03/03/15 16:15	1
trans-1,2-Dichloroethene	<6.3		6.3	0.87	ug/Kg	☼		03/03/15 16:15	1
trans-1,3-Dichloropropene	<6.3		6.3	1.1	ug/Kg	☼		03/03/15 16:15	1
1,1,1-Trichloroethane	<6.3		6.3	0.94	ug/Kg	☼		03/03/15 16:15	1
1,1,2-Trichloroethane	<6.3		6.3	0.86	ug/Kg	☼		03/03/15 16:15	1
Trichloroethene	<6.3		6.3	1.0	ug/Kg	☼		03/03/15 16:15	1
Vinyl chloride	<6.3		6.3	1.3	ug/Kg	☼		03/03/15 16:15	1
Xylenes, Total	<13		13	0.57	ug/Kg	☼		03/03/15 16:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 122		03/03/15 16:15	1
Dibromofluoromethane	82		75 - 120		03/03/15 16:15	1
1,2-Dichloroethane-d4 (Surr)	74		70 - 134		03/03/15 16:15	1
Toluene-d8 (Surr)	103		75 - 122		03/03/15 16:15	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	☼	03/04/15 17:33	03/07/15 17:34	1
1,2-Dichlorobenzene	<210		210	49	ug/Kg	☼	03/04/15 17:33	03/07/15 17:34	1
1,3-Dichlorobenzene	<210		210	47	ug/Kg	☼	03/04/15 17:33	03/07/15 17:34	1
1,4-Dichlorobenzene	<210		210	53	ug/Kg	☼	03/04/15 17:33	03/07/15 17:34	1
2,2'-oxybis[1-chloropropane]	<210		210	48	ug/Kg	☼	03/04/15 17:33	03/07/15 17:34	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Niles and Glenview - WO 011

TestAmerica Job ID: 500-92697-1

**Client Sample ID: MG-1(7-15)-022615**

**Lab Sample ID: 500-92697-3**

**Date Collected: 02/26/15 10:30**

**Matrix: Solid**

**Date Received: 02/27/15 12:30**

**Percent Solids: 79.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<410		410	95	ug/Kg	☼	03/04/15 17:33	03/07/15 17:34	1
2,4,6-Trichlorophenol	<410		410	140	ug/Kg	☼	03/04/15 17:33	03/07/15 17:34	1
2,4-Dichlorophenol	<410		410	98	ug/Kg	☼	03/04/15 17:33	03/07/15 17:34	1
2,4-Dimethylphenol	<410		410	160	ug/Kg	☼	03/04/15 17:33	03/07/15 17:34	1
2,4-Dinitrophenol	<840	*	840	730	ug/Kg	☼	03/04/15 17:33	03/07/15 17:34	1
2,4-Dinitrotoluene	<210		210	66	ug/Kg	☼	03/04/15 17:33	03/07/15 17:34	1
2,6-Dinitrotoluene	<210		210	81	ug/Kg	☼	03/04/15 17:33	03/07/15 17:34	1
2-Chloronaphthalene	<210		210	46	ug/Kg	☼	03/04/15 17:33	03/07/15 17:34	1
2-Chlorophenol	<210		210	71	ug/Kg	☼	03/04/15 17:33	03/07/15 17:34	1
<b>2-Methylnaphthalene</b>	<b>29</b>	<b>J</b>	41	7.6	ug/Kg	☼	03/04/15 17:33	03/07/15 17:34	1
2-Methylphenol	<210		210	66	ug/Kg	☼	03/04/15 17:33	03/07/15 17:34	1
2-Nitroaniline	<210		210	56	ug/Kg	☼	03/04/15 17:33	03/07/15 17:34	1
2-Nitrophenol	<410		410	98	ug/Kg	☼	03/04/15 17:33	03/07/15 17:34	1
3 & 4 Methylphenol	<210		210	69	ug/Kg	☼	03/04/15 17:33	03/07/15 17:34	1
3,3'-Dichlorobenzidine	<210		210	58	ug/Kg	☼	03/04/15 17:33	03/07/15 17:34	1
3-Nitroaniline	<410		410	130	ug/Kg	☼	03/04/15 17:33	03/07/15 17:34	1
4,6-Dinitro-2-methylphenol	<410	*	410	330	ug/Kg	☼	03/04/15 17:33	03/07/15 17:34	1
4-Bromophenyl phenyl ether	<210		210	55	ug/Kg	☼	03/04/15 17:33	03/07/15 17:34	1
4-Chloro-3-methylphenol	<410		410	140	ug/Kg	☼	03/04/15 17:33	03/07/15 17:34	1
4-Chloroaniline	<840		840	190	ug/Kg	☼	03/04/15 17:33	03/07/15 17:34	1
4-Chlorophenyl phenyl ether	<210		210	48	ug/Kg	☼	03/04/15 17:33	03/07/15 17:34	1
4-Nitroaniline	<410		410	170	ug/Kg	☼	03/04/15 17:33	03/07/15 17:34	1
4-Nitrophenol	<840		840	390	ug/Kg	☼	03/04/15 17:33	03/07/15 17:34	1
Acenaphthene	<41		41	7.4	ug/Kg	☼	03/04/15 17:33	03/07/15 17:34	1
Acenaphthylene	<41		41	5.5	ug/Kg	☼	03/04/15 17:33	03/07/15 17:34	1
Anthracene	<41		41	6.9	ug/Kg	☼	03/04/15 17:33	03/07/15 17:34	1
Benzo[a]anthracene	<41		41	5.6	ug/Kg	☼	03/04/15 17:33	03/07/15 17:34	1
Benzo[a]pyrene	<41		41	8.0	ug/Kg	☼	03/04/15 17:33	03/07/15 17:34	1
Benzo[b]fluoranthene	<41		41	8.9	ug/Kg	☼	03/04/15 17:33	03/07/15 17:34	1
Benzo[g,h,i]perylene	<41		41	13	ug/Kg	☼	03/04/15 17:33	03/07/15 17:34	1
Benzo[k]fluoranthene	<41		41	12	ug/Kg	☼	03/04/15 17:33	03/07/15 17:34	1
Bis(2-chloroethoxy)methane	<210		210	42	ug/Kg	☼	03/04/15 17:33	03/07/15 17:34	1
Bis(2-chloroethyl)ether	<210		210	62	ug/Kg	☼	03/04/15 17:33	03/07/15 17:34	1
Bis(2-ethylhexyl) phthalate	<210		210	76	ug/Kg	☼	03/04/15 17:33	03/07/15 17:34	1
Butyl benzyl phthalate	<210		210	79	ug/Kg	☼	03/04/15 17:33	03/07/15 17:34	1
Carbazole	<210		210	110	ug/Kg	☼	03/04/15 17:33	03/07/15 17:34	1
Chrysene	<41		41	11	ug/Kg	☼	03/04/15 17:33	03/07/15 17:34	1
Dibenz(a,h)anthracene	<41		41	8.0	ug/Kg	☼	03/04/15 17:33	03/07/15 17:34	1
Dibenzofuran	<210		210	49	ug/Kg	☼	03/04/15 17:33	03/07/15 17:34	1
Diethyl phthalate	<210		210	70	ug/Kg	☼	03/04/15 17:33	03/07/15 17:34	1
Dimethyl phthalate	<210		210	54	ug/Kg	☼	03/04/15 17:33	03/07/15 17:34	1
Di-n-butyl phthalate	<210		210	63	ug/Kg	☼	03/04/15 17:33	03/07/15 17:34	1
Di-n-octyl phthalate	<210		210	68	ug/Kg	☼	03/04/15 17:33	03/07/15 17:34	1
Fluoranthene	<41		41	7.7	ug/Kg	☼	03/04/15 17:33	03/07/15 17:34	1
Fluorene	<41		41	5.8	ug/Kg	☼	03/04/15 17:33	03/07/15 17:34	1
Hexachlorobenzene	<84		84	9.6	ug/Kg	☼	03/04/15 17:33	03/07/15 17:34	1
Hexachlorobutadiene	<210		210	65	ug/Kg	☼	03/04/15 17:33	03/07/15 17:34	1
Hexachlorocyclopentadiene	<840		840	240	ug/Kg	☼	03/04/15 17:33	03/07/15 17:34	1
Hexachloroethane	<210		210	63	ug/Kg	☼	03/04/15 17:33	03/07/15 17:34	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Niles and Glenview - WO 011

TestAmerica Job ID: 500-92697-1

**Client Sample ID: MG-1(7-15)-022615**

**Lab Sample ID: 500-92697-3**

**Date Collected: 02/26/15 10:30**

**Matrix: Solid**

**Date Received: 02/27/15 12:30**

**Percent Solids: 79.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<41		41	11	ug/Kg	☼	03/04/15 17:33	03/07/15 17:34	1
Isophorone	<210		210	47	ug/Kg	☼	03/04/15 17:33	03/07/15 17:34	1
<b>Naphthalene</b>	<b>10</b>	<b>J</b>	41	6.4	ug/Kg	☼	03/04/15 17:33	03/07/15 17:34	1
Nitrobenzene	<41		41	10	ug/Kg	☼	03/04/15 17:33	03/07/15 17:34	1
N-Nitrosodi-n-propylamine	<210		210	51	ug/Kg	☼	03/04/15 17:33	03/07/15 17:34	1
N-Nitrosodiphenylamine	<210		210	49	ug/Kg	☼	03/04/15 17:33	03/07/15 17:34	1
Pentachlorophenol	<840		840	660	ug/Kg	☼	03/04/15 17:33	03/07/15 17:34	1
<b>Phenanthrene</b>	<b>25</b>	<b>J</b>	41	5.8	ug/Kg	☼	03/04/15 17:33	03/07/15 17:34	1
Phenol	<210		210	92	ug/Kg	☼	03/04/15 17:33	03/07/15 17:34	1
Pyrene	<41		41	8.2	ug/Kg	☼	03/04/15 17:33	03/07/15 17:34	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2,4,6-Tribromophenol	35		35 - 137				03/04/15 17:33	03/07/15 17:34	1
2-Fluorobiphenyl	39		25 - 119				03/04/15 17:33	03/07/15 17:34	1
2-Fluorophenol	37		25 - 110				03/04/15 17:33	03/07/15 17:34	1
Nitrobenzene-d5	34		25 - 115				03/04/15 17:33	03/07/15 17:34	1
Phenol-d5	42		31 - 110				03/04/15 17:33	03/07/15 17:34	1
Terphenyl-d14	50		36 - 134				03/04/15 17:33	03/07/15 17:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/06/15 09:10	03/06/15 17:40	1
<b>Barium</b>	<b>0.58</b>		0.50	0.050	mg/L		03/06/15 09:10	03/06/15 17:40	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/15 09:10	03/06/15 17:40	1
<b>Cadmium</b>	<b>0.0024</b>	<b>J</b>	0.0050	0.0020	mg/L		03/06/15 09:10	03/06/15 17:40	1
Chromium	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 17:40	1
<b>Cobalt</b>	<b>0.010</b>	<b>J</b>	0.025	0.010	mg/L		03/06/15 09:10	03/06/15 17:40	1
<b>Copper</b>	<b>0.013</b>	<b>J</b>	0.025	0.010	mg/L		03/06/15 09:10	03/06/15 17:40	1
<b>Iron</b>	<b>0.20</b>		0.20	0.20	mg/L		03/06/15 09:10	03/06/15 17:40	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/06/15 09:10	03/06/15 17:40	1
<b>Manganese</b>	<b>2.0</b>		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 17:40	1
<b>Nickel</b>	<b>0.018</b>	<b>J</b>	0.025	0.010	mg/L		03/06/15 09:10	03/06/15 17:40	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/15 09:10	03/06/15 17:40	1
Silver	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 17:40	1
<b>Zinc</b>	<b>0.037</b>	<b>J</b>	0.10	0.020	mg/L		03/06/15 09:10	03/06/15 17:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.011</b>	<b>J</b>	0.050	0.010	mg/L		03/06/15 09:10	03/06/15 18:35	1
<b>Barium</b>	<b>0.18</b>	<b>J</b>	0.50	0.050	mg/L		03/06/15 09:10	03/06/15 18:35	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/15 09:10	03/06/15 18:35	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/06/15 09:10	03/06/15 18:35	1
<b>Chromium</b>	<b>0.027</b>		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:35	1
Cobalt	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:35	1
<b>Copper</b>	<b>0.092</b>		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:35	1
<b>Iron</b>	<b>13</b>		0.20	0.20	mg/L		03/06/15 09:10	03/06/15 18:35	1
<b>Lead</b>	<b>0.020</b>		0.0075	0.0075	mg/L		03/06/15 09:10	03/06/15 18:35	1
<b>Manganese</b>	<b>0.19</b>		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:35	1
<b>Nickel</b>	<b>0.021</b>	<b>J</b>	0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:35	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/15 09:10	03/06/15 18:35	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - Niles and Glenview - WO 011

TestAmerica Job ID: 500-92697-1

**Client Sample ID: MG-1(7-15)-022615**

**Lab Sample ID: 500-92697-3**

Date Collected: 02/26/15 10:30

Matrix: Solid

Date Received: 02/27/15 12:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:35	1
Zinc	0.089	J	0.10	0.020	mg/L		03/06/15 09:10	03/06/15 18:35	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.2	B	1.2	0.25	mg/Kg	☼	03/02/15 09:51	03/04/15 03:44	1
Arsenic	5.0		0.61	0.28	mg/Kg	☼	03/02/15 09:51	03/04/15 03:44	1
Barium	63		0.61	0.11	mg/Kg	☼	03/02/15 09:51	03/04/15 03:44	1
Beryllium	0.85		0.25	0.053	mg/Kg	☼	03/02/15 09:51	03/04/15 03:44	1
Cadmium	<0.12		0.12	0.035	mg/Kg	☼	03/02/15 09:51	03/04/15 03:44	1
Calcium	50000		12	3.9	mg/Kg	☼	03/02/15 09:51	03/04/15 03:44	1
Chromium	25		0.61	0.11	mg/Kg	☼	03/02/15 09:51	03/04/15 03:44	1
Cobalt	13		0.31	0.069	mg/Kg	☼	03/02/15 09:51	03/04/15 03:44	1
Copper	23		0.61	0.13	mg/Kg	☼	03/02/15 09:51	03/04/15 03:44	1
Iron	22000		12	4.7	mg/Kg	☼	03/02/15 09:51	03/04/15 03:44	1
Lead	11		0.31	0.15	mg/Kg	☼	03/02/15 09:51	03/04/15 03:44	1
Magnesium	24000		6.1	2.5	mg/Kg	☼	03/02/15 09:51	03/04/15 03:44	1
Manganese	390		0.61	0.12	mg/Kg	☼	03/02/15 09:51	03/04/15 03:44	1
Nickel	34		0.61	0.17	mg/Kg	☼	03/02/15 09:51	03/04/15 03:44	1
Potassium	3300		31	5.0	mg/Kg	☼	03/02/15 09:51	03/05/15 01:19	1
Selenium	0.64		0.61	0.30	mg/Kg	☼	03/02/15 09:51	03/04/15 03:44	1
Silver	0.11	J	0.31	0.072	mg/Kg	☼	03/02/15 09:51	03/04/15 03:44	1
Sodium	360		61	8.1	mg/Kg	☼	03/02/15 09:51	03/05/15 01:19	1
Thallium	1.7		0.61	0.30	mg/Kg	☼	03/02/15 09:51	03/04/15 03:44	1
Vanadium	22		0.31	0.089	mg/Kg	☼	03/02/15 09:51	03/05/15 01:19	1
Zinc	48		1.2	0.39	mg/Kg	☼	03/02/15 09:51	03/04/15 03:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/06/15 12:00	03/06/15 17:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/06/15 12:00	03/06/15 16:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	19	J	20	7.0	ug/Kg	☼	03/02/15 15:30	03/03/15 11:35	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.86		0.200	0.200	SU			03/03/15 13:05	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Niles and Glenview - WO 011

TestAmerica Job ID: 500-92697-1

**Client Sample ID: MG-1(7-15)-022615D**

**Lab Sample ID: 500-92697-4**

**Date Collected: 02/26/15 10:30**

**Matrix: Solid**

**Date Received: 02/27/15 12:30**

**Percent Solids: 81.1**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<6.2		6.2	2.7	ug/Kg	☼		03/03/15 16:39	1
Benzene	<6.2		6.2	0.84	ug/Kg	☼		03/03/15 16:39	1
Bromodichloromethane	<6.2		6.2	1.1	ug/Kg	☼		03/03/15 16:39	1
Bromoform	<6.2		6.2	1.4	ug/Kg	☼		03/03/15 16:39	1
Bromomethane	<6.2		6.2	1.9	ug/Kg	☼		03/03/15 16:39	1
Carbon disulfide	<6.2		6.2	0.92	ug/Kg	☼		03/03/15 16:39	1
Carbon tetrachloride	<6.2 *		6.2	1.1	ug/Kg	☼		03/03/15 16:39	1
Chlorobenzene	<6.2		6.2	0.63	ug/Kg	☼		03/03/15 16:39	1
Chloroethane	<6.2		6.2	1.7	ug/Kg	☼		03/03/15 16:39	1
Chloroform	<6.2		6.2	0.71	ug/Kg	☼		03/03/15 16:39	1
Chloromethane	<6.2		6.2	1.3	ug/Kg	☼		03/03/15 16:39	1
cis-1,2-Dichloroethene	<6.2		6.2	0.87	ug/Kg	☼		03/03/15 16:39	1
cis-1,3-Dichloropropene	<6.2		6.2	0.81	ug/Kg	☼		03/03/15 16:39	1
Dibromochloromethane	<6.2		6.2	1.1	ug/Kg	☼		03/03/15 16:39	1
1,1-Dichloroethane	<6.2		6.2	0.98	ug/Kg	☼		03/03/15 16:39	1
1,2-Dichloroethane	<6.2		6.2	0.91	ug/Kg	☼		03/03/15 16:39	1
1,1,1-Dichloroethane	<6.2		6.2	1.0	ug/Kg	☼		03/03/15 16:39	1
1,2-Dichloropropane	<6.2		6.2	0.94	ug/Kg	☼		03/03/15 16:39	1
1,3-Dichloropropene, Total	<6.2		6.2	0.81	ug/Kg	☼		03/03/15 16:39	1
Ethylbenzene	<6.2		6.2	1.2	ug/Kg	☼		03/03/15 16:39	1
2-Hexanone	<6.2		6.2	1.8	ug/Kg	☼		03/03/15 16:39	1
Methylene Chloride	<6.2		6.2	1.7	ug/Kg	☼		03/03/15 16:39	1
Methyl Ethyl Ketone	<6.2		6.2	2.2	ug/Kg	☼		03/03/15 16:39	1
methyl isobutyl ketone	<6.2		6.2	1.6	ug/Kg	☼		03/03/15 16:39	1
Methyl tert-butyl ether	<6.2		6.2	1.0	ug/Kg	☼		03/03/15 16:39	1
Styrene	<6.2		6.2	0.81	ug/Kg	☼		03/03/15 16:39	1
1,1,1,2-Tetrachloroethane	<6.2		6.2	1.2	ug/Kg	☼		03/03/15 16:39	1
Tetrachloroethene	<6.2		6.2	0.94	ug/Kg	☼		03/03/15 16:39	1
Toluene	<6.2		6.2	0.86	ug/Kg	☼		03/03/15 16:39	1
trans-1,2-Dichloroethene	<6.2		6.2	0.85	ug/Kg	☼		03/03/15 16:39	1
trans-1,3-Dichloropropene	<6.2		6.2	1.1	ug/Kg	☼		03/03/15 16:39	1
1,1,1-Trichloroethane	<6.2		6.2	0.92	ug/Kg	☼		03/03/15 16:39	1
1,1,2-Trichloroethane	<6.2		6.2	0.84	ug/Kg	☼		03/03/15 16:39	1
Trichloroethene	<6.2		6.2	1.0	ug/Kg	☼		03/03/15 16:39	1
Vinyl chloride	<6.2		6.2	1.3	ug/Kg	☼		03/03/15 16:39	1
Xylenes, Total	<12		12	0.56	ug/Kg	☼		03/03/15 16:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 122		03/03/15 16:39	1
Dibromofluoromethane	85		75 - 120		03/03/15 16:39	1
1,2-Dichloroethane-d4 (Surr)	76		70 - 134		03/03/15 16:39	1
Toluene-d8 (Surr)	103		75 - 122		03/03/15 16:39	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	☼	03/04/15 17:33	03/07/15 17:59	1
1,2-Dichlorobenzene	<210		210	49	ug/Kg	☼	03/04/15 17:33	03/07/15 17:59	1
1,3-Dichlorobenzene	<210		210	46	ug/Kg	☼	03/04/15 17:33	03/07/15 17:59	1
1,4-Dichlorobenzene	<210		210	52	ug/Kg	☼	03/04/15 17:33	03/07/15 17:59	1
2,2'-oxybis[1-chloropropane]	<210		210	47	ug/Kg	☼	03/04/15 17:33	03/07/15 17:59	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Niles and Glenview - WO 011

TestAmerica Job ID: 500-92697-1

**Client Sample ID: MG-1(7-15)-022615D**

**Lab Sample ID: 500-92697-4**

**Date Collected: 02/26/15 10:30**

**Matrix: Solid**

**Date Received: 02/27/15 12:30**

**Percent Solids: 81.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<410		410	93	ug/Kg	☼	03/04/15 17:33	03/07/15 17:59	1
2,4,6-Trichlorophenol	<410		410	140	ug/Kg	☼	03/04/15 17:33	03/07/15 17:59	1
2,4-Dichlorophenol	<410		410	97	ug/Kg	☼	03/04/15 17:33	03/07/15 17:59	1
2,4-Dimethylphenol	<410		410	160	ug/Kg	☼	03/04/15 17:33	03/07/15 17:59	1
2,4-Dinitrophenol	<830	*	830	720	ug/Kg	☼	03/04/15 17:33	03/07/15 17:59	1
2,4-Dinitrotoluene	<210		210	65	ug/Kg	☼	03/04/15 17:33	03/07/15 17:59	1
2,6-Dinitrotoluene	<210		210	80	ug/Kg	☼	03/04/15 17:33	03/07/15 17:59	1
2-Chloronaphthalene	<210		210	45	ug/Kg	☼	03/04/15 17:33	03/07/15 17:59	1
2-Chlorophenol	<210		210	70	ug/Kg	☼	03/04/15 17:33	03/07/15 17:59	1
2-Methylnaphthalene	<41		41	7.5	ug/Kg	☼	03/04/15 17:33	03/07/15 17:59	1
2-Methylphenol	<210		210	66	ug/Kg	☼	03/04/15 17:33	03/07/15 17:59	1
2-Nitroaniline	<210		210	55	ug/Kg	☼	03/04/15 17:33	03/07/15 17:59	1
2-Nitrophenol	<410		410	97	ug/Kg	☼	03/04/15 17:33	03/07/15 17:59	1
3 & 4 Methylphenol	<210		210	68	ug/Kg	☼	03/04/15 17:33	03/07/15 17:59	1
3,3'-Dichlorobenzidine	<210		210	57	ug/Kg	☼	03/04/15 17:33	03/07/15 17:59	1
3-Nitroaniline	<410		410	130	ug/Kg	☼	03/04/15 17:33	03/07/15 17:59	1
4,6-Dinitro-2-methylphenol	<410	*	410	330	ug/Kg	☼	03/04/15 17:33	03/07/15 17:59	1
4-Bromophenyl phenyl ether	<210		210	54	ug/Kg	☼	03/04/15 17:33	03/07/15 17:59	1
4-Chloro-3-methylphenol	<410		410	140	ug/Kg	☼	03/04/15 17:33	03/07/15 17:59	1
4-Chloroaniline	<830		830	190	ug/Kg	☼	03/04/15 17:33	03/07/15 17:59	1
4-Chlorophenyl phenyl ether	<210		210	48	ug/Kg	☼	03/04/15 17:33	03/07/15 17:59	1
4-Nitroaniline	<410		410	170	ug/Kg	☼	03/04/15 17:33	03/07/15 17:59	1
4-Nitrophenol	<830		830	390	ug/Kg	☼	03/04/15 17:33	03/07/15 17:59	1
Acenaphthene	<41		41	7.4	ug/Kg	☼	03/04/15 17:33	03/07/15 17:59	1
Acenaphthylene	<41		41	5.4	ug/Kg	☼	03/04/15 17:33	03/07/15 17:59	1
Anthracene	<41		41	6.8	ug/Kg	☼	03/04/15 17:33	03/07/15 17:59	1
Benzo[a]anthracene	<41		41	5.5	ug/Kg	☼	03/04/15 17:33	03/07/15 17:59	1
Benzo[a]pyrene	<41		41	7.9	ug/Kg	☼	03/04/15 17:33	03/07/15 17:59	1
Benzo[b]fluoranthene	<41		41	8.8	ug/Kg	☼	03/04/15 17:33	03/07/15 17:59	1
Benzo[g,h,i]perylene	<41		41	13	ug/Kg	☼	03/04/15 17:33	03/07/15 17:59	1
Benzo[k]fluoranthene	<41		41	12	ug/Kg	☼	03/04/15 17:33	03/07/15 17:59	1
Bis(2-chloroethoxy)methane	<210		210	42	ug/Kg	☼	03/04/15 17:33	03/07/15 17:59	1
Bis(2-chloroethyl)ether	<210		210	61	ug/Kg	☼	03/04/15 17:33	03/07/15 17:59	1
Bis(2-ethylhexyl) phthalate	<210		210	75	ug/Kg	☼	03/04/15 17:33	03/07/15 17:59	1
Butyl benzyl phthalate	<210		210	78	ug/Kg	☼	03/04/15 17:33	03/07/15 17:59	1
Carbazole	<210		210	110	ug/Kg	☼	03/04/15 17:33	03/07/15 17:59	1
<b>Chrysene</b>	<b>11</b>	<b>J</b>	41	11	ug/Kg	☼	03/04/15 17:33	03/07/15 17:59	1
Dibenz(a,h)anthracene	<41		41	7.9	ug/Kg	☼	03/04/15 17:33	03/07/15 17:59	1
Dibenzofuran	<210		210	48	ug/Kg	☼	03/04/15 17:33	03/07/15 17:59	1
Diethyl phthalate	<210		210	69	ug/Kg	☼	03/04/15 17:33	03/07/15 17:59	1
Dimethyl phthalate	<210		210	53	ug/Kg	☼	03/04/15 17:33	03/07/15 17:59	1
Di-n-butyl phthalate	<210		210	62	ug/Kg	☼	03/04/15 17:33	03/07/15 17:59	1
Di-n-octyl phthalate	<210		210	67	ug/Kg	☼	03/04/15 17:33	03/07/15 17:59	1
Fluoranthene	<41		41	7.6	ug/Kg	☼	03/04/15 17:33	03/07/15 17:59	1
Fluorene	<41		41	5.8	ug/Kg	☼	03/04/15 17:33	03/07/15 17:59	1
Hexachlorobenzene	<83		83	9.5	ug/Kg	☼	03/04/15 17:33	03/07/15 17:59	1
Hexachlorobutadiene	<210		210	64	ug/Kg	☼	03/04/15 17:33	03/07/15 17:59	1
Hexachlorocyclopentadiene	<830		830	240	ug/Kg	☼	03/04/15 17:33	03/07/15 17:59	1
Hexachloroethane	<210		210	62	ug/Kg	☼	03/04/15 17:33	03/07/15 17:59	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Niles and Glenview - WO 011

TestAmerica Job ID: 500-92697-1

**Client Sample ID: MG-1(7-15)-022615D**

**Lab Sample ID: 500-92697-4**

**Date Collected: 02/26/15 10:30**

**Matrix: Solid**

**Date Received: 02/27/15 12:30**

**Percent Solids: 81.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<41		41	11	ug/Kg	☼	03/04/15 17:33	03/07/15 17:59	1
Isophorone	<210		210	46	ug/Kg	☼	03/04/15 17:33	03/07/15 17:59	1
Naphthalene	<41		41	6.3	ug/Kg	☼	03/04/15 17:33	03/07/15 17:59	1
Nitrobenzene	<41		41	10	ug/Kg	☼	03/04/15 17:33	03/07/15 17:59	1
N-Nitrosodi-n-propylamine	<210		210	50	ug/Kg	☼	03/04/15 17:33	03/07/15 17:59	1
N-Nitrosodiphenylamine	<210		210	48	ug/Kg	☼	03/04/15 17:33	03/07/15 17:59	1
Pentachlorophenol	<830		830	660	ug/Kg	☼	03/04/15 17:33	03/07/15 17:59	1
Phenanthrene	<41		41	5.7	ug/Kg	☼	03/04/15 17:33	03/07/15 17:59	1
Phenol	<210		210	91	ug/Kg	☼	03/04/15 17:33	03/07/15 17:59	1
<b>Pyrene</b>	<b>12</b>	<b>J</b>	41	8.1	ug/Kg	☼	03/04/15 17:33	03/07/15 17:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	37		35 - 137	03/04/15 17:33	03/07/15 17:59	1
2-Fluorobiphenyl	36		25 - 119	03/04/15 17:33	03/07/15 17:59	1
2-Fluorophenol	35		25 - 110	03/04/15 17:33	03/07/15 17:59	1
Nitrobenzene-d5	31		25 - 115	03/04/15 17:33	03/07/15 17:59	1
Phenol-d5	38		31 - 110	03/04/15 17:33	03/07/15 17:59	1
Terphenyl-d14	50		36 - 134	03/04/15 17:33	03/07/15 17:59	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		03/06/15 09:10	03/06/15 17:46	1
<b>Barium</b>	<b>0.11</b>	<b>J</b>	0.50	0.050	mg/L		03/06/15 09:10	03/06/15 17:46	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/15 09:10	03/06/15 17:46	1
<b>Cadmium</b>	<b>0.0023</b>	<b>J</b>	0.0050	0.0020	mg/L		03/06/15 09:10	03/06/15 17:46	1
Chromium	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 17:46	1
Cobalt	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 17:46	1
<b>Copper</b>	<b>0.037</b>		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 17:46	1
<b>Iron</b>	<b>0.23</b>		0.20	0.20	mg/L		03/06/15 09:10	03/06/15 17:46	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/06/15 09:10	03/06/15 17:46	1
<b>Manganese</b>	<b>2.0</b>		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 17:46	1
Nickel	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 17:46	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/15 09:10	03/06/15 17:46	1
Silver	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 17:46	1
<b>Zinc</b>	<b>0.052</b>	<b>J</b>	0.10	0.020	mg/L		03/06/15 09:10	03/06/15 17:46	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		03/06/15 09:10	03/06/15 18:39	1
Barium	<0.50		0.50	0.050	mg/L		03/06/15 09:10	03/06/15 18:39	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/15 09:10	03/06/15 18:39	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/06/15 09:10	03/06/15 18:39	1
Chromium	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:39	1
Cobalt	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:39	1
<b>Copper</b>	<b>0.035</b>		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:39	1
<b>Iron</b>	<b>0.22</b>		0.20	0.20	mg/L		03/06/15 09:10	03/06/15 18:39	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/06/15 09:10	03/06/15 18:39	1
<b>Manganese</b>	<b>0.026</b>		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:39	1
Nickel	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:39	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/15 09:10	03/06/15 18:39	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - Niles and Glenview - WO 011

TestAmerica Job ID: 500-92697-1

**Client Sample ID: MG-1(7-15)-022615D**

**Lab Sample ID: 500-92697-4**

Date Collected: 02/26/15 10:30

Matrix: Solid

Date Received: 02/27/15 12:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:39	1
Zinc	0.046	J	0.10	0.020	mg/L		03/06/15 09:10	03/06/15 18:39	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.86	J B	1.2	0.24	mg/Kg	⊛	03/02/15 09:51	03/04/15 03:51	1
Arsenic	5.9		0.59	0.27	mg/Kg	⊛	03/02/15 09:51	03/04/15 03:51	1
Barium	71		0.59	0.11	mg/Kg	⊛	03/02/15 09:51	03/04/15 03:51	1
Beryllium	0.94		0.24	0.051	mg/Kg	⊛	03/02/15 09:51	03/04/15 03:51	1
Cadmium	<0.12		0.12	0.034	mg/Kg	⊛	03/02/15 09:51	03/04/15 03:51	1
Calcium	44000		12	3.8	mg/Kg	⊛	03/02/15 09:51	03/04/15 03:51	1
Chromium	24		0.59	0.10	mg/Kg	⊛	03/02/15 09:51	03/04/15 03:51	1
Cobalt	14		0.29	0.067	mg/Kg	⊛	03/02/15 09:51	03/04/15 03:51	1
Copper	24		0.59	0.13	mg/Kg	⊛	03/02/15 09:51	03/04/15 03:51	1
Iron	24000		12	4.5	mg/Kg	⊛	03/02/15 09:51	03/04/15 03:51	1
Lead	11		0.29	0.15	mg/Kg	⊛	03/02/15 09:51	03/04/15 03:51	1
Magnesium	23000		5.9	2.4	mg/Kg	⊛	03/02/15 09:51	03/04/15 03:51	1
Manganese	350		0.59	0.12	mg/Kg	⊛	03/02/15 09:51	03/04/15 03:51	1
Nickel	35		0.59	0.16	mg/Kg	⊛	03/02/15 09:51	03/04/15 03:51	1
Potassium	3300		29	4.8	mg/Kg	⊛	03/02/15 09:51	03/05/15 01:24	1
Selenium	0.81		0.59	0.29	mg/Kg	⊛	03/02/15 09:51	03/04/15 03:51	1
Silver	0.082	J	0.29	0.069	mg/Kg	⊛	03/02/15 09:51	03/04/15 03:51	1
Sodium	500		59	7.8	mg/Kg	⊛	03/02/15 09:51	03/05/15 01:24	1
Thallium	1.5		0.59	0.29	mg/Kg	⊛	03/02/15 09:51	03/04/15 03:51	1
Vanadium	21		0.29	0.086	mg/Kg	⊛	03/02/15 09:51	03/05/15 01:24	1
Zinc	51		1.2	0.37	mg/Kg	⊛	03/02/15 09:51	03/04/15 03:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/06/15 12:00	03/06/15 17:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/06/15 12:00	03/06/15 16:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	20		19	6.7	ug/Kg	⊛	03/02/15 15:30	03/03/15 11:37	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.96		0.200	0.200	SU			03/03/15 13:09	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Niles and Glenview - WO 011

TestAmerica Job ID: 500-92697-1

## Qualifiers

### GC/MS VOA

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

### GC/MS Semi VOA

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

### Metals

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

## Glossary

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

# Certification Summary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Niles and Glenview - WO 011

TestAmerica Job ID: 500-92697-1

## Laboratory: TestAmerica Chicago

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

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

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

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

\* Certification renewal pending - certification considered valid.

# TestAmerica

THE LEADER IN ENVIRONMENTAL

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



500-92697 COC

Report To (optional)  
Contact: S. Babusukumar  
Company: Weston Solutions  
Address: 300 Plaza Circle #202  
Address: Mundelein, IL 60060  
Phone: 224-864-7250  
Fax:  
E-Mail: Babu.Babusukumar@westonsolutions.com

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

## Chain of Custody Record

Lab Job #: 500-92697

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

Page 1 of 2

Temperature °C of Cooler: 3.1

Client		Client Project #		Preservative							Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		Parameter								
Project Location/State		Lab PM										
Sampler												
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCS	SVOCS	metals	TCU/SLT/ metals	PH	Comments
1		MG-2(0-1)-022615	2-26-15	10:00	2	SO	X	X	X	X	X	
2		MG-1(0-7)-022615		10:25								
<del>MG-1(0-7)-022615</del>												
3		MG-1(7-15)-022615		10:30								
4		MG-1(7-15)-022615 D		10:30								
5		AB-1(0-1)-022615		10:45								
6		CB1-1(0-1)-022615		11:10								
7		GD-1(0-1)-022615		11:25								
8		MS-1(0-1)-022615		12:00								
9		GD-2(0-7)-022615	2-26-15	13:40	2	SO	X	X	X	X	X	

Turnaround Time Required (Business Days)

\_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days \_\_\_ 10 Days \_\_\_ 15 Days std 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>Shirley Ann</u> Company <u>Weston</u> Date <u>2-27-15</u> Time <u>1045</u>	Received By <u>Shirley Ann</u> Company <u>TA</u> Date <u>2/27/15</u> Time <u>1230</u>
Relinquished By <u>Shirley Ann</u> Company <u>TA</u> Date <u>2/27/15</u> Time <u>1230</u>	Received By <u>Shirley Ann</u> Company <u>TA-CHE</u> Date <u>2/27/15</u> Time <u>1230</u>

Lab Courier: TA

Shipped: \_\_\_\_\_

Hand Delivered: \_\_\_\_\_

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

Client Comments

Lab Comments:

Report To: (optional) S. Babusukumar  
 Contact: S. Babusukumar  
 Company: Weston Solutions, Inc.  
 Address: 300 Plaza Circle #202  
 Address: Murderlein, IL 60060  
 Phone: 224-804-7250  
 Fax: \_\_\_\_\_  
 E-Mail: S.Babusukumar@westonsolutions.com

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

## Chain of Custody Record

Lab Job #: 500-92697  
 Chain of Custody Number: \_\_\_\_\_  
 Page 2 of 2  
 Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter					Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		Parameter		Parameter						
Project Location/State		Lab PM		Parameter		Parameter						
Sampler		Lab PM		Parameter		Parameter						
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCS	SVOCS	metals	TCLP/ SPLP metals	PH	Comments
10		GD-2(7-15)-022615	2/26/15	13:45	2	SO	X	X	X	X	X	
11		TU-1(0-7)-022615		14:40	1							
12		TU-1(7-15)-022615		14:45	1							
13		GM-1(0-7)-022615		15:25	1							
14		GM-1(7-15)-022615		15:30	1							
15		CB2-1(0-7)-022615		16:10	1							
16		CB2-1(7-15)-022615		16:15	1							
17		CB2-1(7-15)-022615	2/26/15	16:15	2	SO	X	X	X	X	X	
* last item *												

Turnaround Time Required (Business Days)

1 Day  2 Days  5 Days  7 Days  10 Days  15 Days  std 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>David Allen</u> Company: <u>Weston</u> Date: <u>2/27/15</u> Time: <u>10:45</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>2/27/15</u> Time: <u>10:45</u>
Relinquished By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>2/27/15</u> Time: <u>12:30</u>	Received By: <u>[Signature]</u> Company: <u>TA-INT</u> Date: <u>2/27/15</u> Time: <u>12:30</u>

Lab Courier: TA  
 Shipped: \_\_\_\_\_  
 Hand Delivered: \_\_\_\_\_

Matrix Key

WW - Wastewater SE - Sediment  
 W - Water SO - Soil  
 S - Sill 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 374: IL 21 at IL 58 and Greenwood Ave Office Phone Number, if available: \_\_\_\_\_

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

9701 Milwaukee Avenue (ISGS Site No. 2825-35)

City: Glenview State: IL Zip Code: \_\_\_\_\_

County: Cook Township: \_\_\_\_\_

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

Latitude: 42.057403480 Longitude: -87.840561905

(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 374: IL 21 at IL 58 and Greenwood Ave

Latitude: 42.057403480 Longitude: -87.840561905

**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 MS-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2825-35. SEE FIGURE 3-1 AND TABLE 4-1 OF THE PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

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

TEST AMERICA ANALYTICAL REPORT - JOB ID: 500-92697-1.  
ALSO SEE FIGURE 4-1 OF THE REVISED PRELIMINARY SITE INVESTIGATION REPORT.

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

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

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

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

Michael A. Castillo, P.G.  
 Printed Name:

*Michael Castillo*  
 Licensed Professional Engineer or  
 Licensed Professional Geologist Signature:

*April 15, 2015*  
 Date:





**Summary Table of ISGS Site No. 2825-35**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 374: Illinois Route 21 at Illinois Route 58 and Greenwood Avenue**  
**Niles and Glenview, Cook County, Illinois**

Field Sample ID	MS-1(0-1)-022615	<b>Soil Reference Concentrations<sup>A</sup></b>
Sample Date	2/26/2015	
Location ID	MS-1	
Depth	0 - 1	
ISGS Site No.	2825-35	
Parameter		
Laboratory pH	8.13	<6.25,>9.0
<b>VOCs</b>		
<b>SVOCs (ug/kg)</b>		
Anthracene	20 J	1.20E+07
Benzo(a)anthracene	140	900 / 1100 / 1800
Benzo(a)pyrene	180	90 / 1300 / 2100
Benzo(b)fluoranthene	250	900 / 1500 / 2100
Benzo(g,h,i)perylene	190	---
Benzo(k)fluoranthene	120	9000
Chrysene	200	88000
Dibenzo(a,h)anthracene	44	90 / 200 / 420
Fluoranthene	320	3100000
Indeno(1,2,3-cd)pyrene	150	900 / 900 / 1600
Phenanthrene	120	---
Pyrene	280	2300000
<b>Total Metals (mg/kg)</b>		
Arsenic, Total	7.8 J-	11.3 / 13
Barium, Total	79 J	1500
Beryllium, Total	0.9	22
Cadmium, Total	0.076 J	5.2
Calcium, Total	19000 J	---
Chromium, Total	24	21
Cobalt, Total	9.7 J	20
Copper, Total	23 J	2900
Iron, Total	23000 J	15000 / 15900
Lead, Total	48 J	107
Magnesium, Total	11000 J	325000
Manganese, Total	330 J	630 / 636
Mercury, Total	0.027 J	0.89
Nickel, Total	27	100
Potassium, Total	2300 J+	---
Selenium, Total	0.94	1.3
Silver, Total	0.1 J	4.4
Sodium, Total	350	---
Thallium, Total	1.5	2.6
Vanadium, Total	23	550
Zinc, Total	64 J	5100
<b>TCLP Metals (mg/l)</b>		
Barium, TCLP	0.44 J	2
Cadmium, TCLP	0.0021 J	0.005
Copper, TCLP	0.029	0.65
Manganese, TCLP	0.048	0.15
Zinc, TCLP	0.048 J	5
<b>SPLP Metals (mg/l)</b>		
Arsenic, SPLP	0.022 J	0.05
Barium, SPLP	0.29 J	2
Chromium, SPLP	0.071	0.1
Cobalt, SPLP	0.013 J	1
Copper, SPLP	0.083	0.65
Iron, SPLP	54 J+	5
Lead, SPLP	0.083	0.0075
Manganese, SPLP	0.22	0.15
Nickel, SPLP	0.056	0.1
Zinc, SPLP	0.2	5
Percent Solids	81	

**Summary Table of ISGS Site No. 2825-35**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAU 374: Illinois Route 21 at Illinois Route 58 and Greenwood Avenue**  
**Niles and Glenview, Cook 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.

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: 500-92697-1  
Client Project/Site: IDOT - Niles and Glenview - WO 011

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

Attn: Mr. S. Babusukumar



Authorized for release by:  
3/10/2015 4:21:48 PM

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

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

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

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# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Niles and Glenview - WO 011

TestAmerica Job ID: 500-92697-1

**Client Sample ID: MS-1(0-1)-022615**

**Lab Sample ID: 500-92697-8**

**Date Collected: 02/26/15 12:00**

**Matrix: Solid**

**Date Received: 02/27/15 12:30**

**Percent Solids: 81.2**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<6.2		6.2	2.7	ug/Kg	☼		03/03/15 18:17	1
Benzene	<6.2		6.2	0.84	ug/Kg	☼		03/03/15 18:17	1
Bromodichloromethane	<6.2		6.2	1.1	ug/Kg	☼		03/03/15 18:17	1
Bromoform	<6.2		6.2	1.4	ug/Kg	☼		03/03/15 18:17	1
Bromomethane	<6.2		6.2	1.9	ug/Kg	☼		03/03/15 18:17	1
Carbon disulfide	<6.2		6.2	0.92	ug/Kg	☼		03/03/15 18:17	1
Carbon tetrachloride	<6.2	*	6.2	1.1	ug/Kg	☼		03/03/15 18:17	1
Chlorobenzene	<6.2		6.2	0.62	ug/Kg	☼		03/03/15 18:17	1
Chloroethane	<6.2		6.2	1.7	ug/Kg	☼		03/03/15 18:17	1
Chloroform	<6.2		6.2	0.71	ug/Kg	☼		03/03/15 18:17	1
Chloromethane	<6.2		6.2	1.3	ug/Kg	☼		03/03/15 18:17	1
cis-1,2-Dichloroethene	<6.2		6.2	0.87	ug/Kg	☼		03/03/15 18:17	1
cis-1,3-Dichloropropene	<6.2		6.2	0.81	ug/Kg	☼		03/03/15 18:17	1
Dibromochloromethane	<6.2		6.2	1.1	ug/Kg	☼		03/03/15 18:17	1
1,1-Dichloroethane	<6.2		6.2	0.97	ug/Kg	☼		03/03/15 18:17	1
1,2-Dichloroethane	<6.2		6.2	0.91	ug/Kg	☼		03/03/15 18:17	1
1,1-Dichloroethene	<6.2		6.2	1.0	ug/Kg	☼		03/03/15 18:17	1
1,2-Dichloropropane	<6.2		6.2	0.94	ug/Kg	☼		03/03/15 18:17	1
1,3-Dichloropropene, Total	<6.2		6.2	0.81	ug/Kg	☼		03/03/15 18:17	1
Ethylbenzene	<6.2		6.2	1.2	ug/Kg	☼		03/03/15 18:17	1
2-Hexanone	<6.2		6.2	1.8	ug/Kg	☼		03/03/15 18:17	1
Methylene Chloride	<6.2		6.2	1.7	ug/Kg	☼		03/03/15 18:17	1
Methyl Ethyl Ketone	<6.2		6.2	2.2	ug/Kg	☼		03/03/15 18:17	1
methyl isobutyl ketone	<6.2		6.2	1.6	ug/Kg	☼		03/03/15 18:17	1
Methyl tert-butyl ether	<6.2		6.2	1.0	ug/Kg	☼		03/03/15 18:17	1
Styrene	<6.2		6.2	0.81	ug/Kg	☼		03/03/15 18:17	1
1,1,1,2-Tetrachloroethane	<6.2		6.2	1.2	ug/Kg	☼		03/03/15 18:17	1
Tetrachloroethene	<6.2		6.2	0.94	ug/Kg	☼		03/03/15 18:17	1
Toluene	<6.2		6.2	0.86	ug/Kg	☼		03/03/15 18:17	1
trans-1,2-Dichloroethene	<6.2		6.2	0.85	ug/Kg	☼		03/03/15 18:17	1
trans-1,3-Dichloropropene	<6.2		6.2	1.1	ug/Kg	☼		03/03/15 18:17	1
1,1,1-Trichloroethane	<6.2		6.2	0.92	ug/Kg	☼		03/03/15 18:17	1
1,1,2-Trichloroethane	<6.2		6.2	0.84	ug/Kg	☼		03/03/15 18:17	1
Trichloroethene	<6.2		6.2	1.0	ug/Kg	☼		03/03/15 18:17	1
Vinyl chloride	<6.2		6.2	1.3	ug/Kg	☼		03/03/15 18:17	1
Xylenes, Total	<12		12	0.56	ug/Kg	☼		03/03/15 18:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 122		03/03/15 18:17	1
Dibromofluoromethane	84		75 - 120		03/03/15 18:17	1
1,2-Dichloroethane-d4 (Surr)	80		70 - 134		03/03/15 18:17	1
Toluene-d8 (Surr)	100		75 - 122		03/03/15 18:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<200		200	43	ug/Kg	☼	03/02/15 16:12	03/06/15 23:24	1
1,2-Dichlorobenzene	<200		200	48	ug/Kg	☼	03/02/15 16:12	03/06/15 23:24	1
1,3-Dichlorobenzene	<200		200	45	ug/Kg	☼	03/02/15 16:12	03/06/15 23:24	1
1,4-Dichlorobenzene	<200		200	51	ug/Kg	☼	03/02/15 16:12	03/06/15 23:24	1
2,2'-oxybis[1-chloropropane]	<200		200	46	ug/Kg	☼	03/02/15 16:12	03/06/15 23:24	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Niles and Glenview - WO 011

TestAmerica Job ID: 500-92697-1

**Client Sample ID: MS-1(0-1)-022615**

**Lab Sample ID: 500-92697-8**

**Date Collected: 02/26/15 12:00**

**Matrix: Solid**

**Date Received: 02/27/15 12:30**

**Percent Solids: 81.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<400		400	91	ug/Kg	☼	03/02/15 16:12	03/06/15 23:24	1
2,4,6-Trichlorophenol	<400		400	140	ug/Kg	☼	03/02/15 16:12	03/06/15 23:24	1
2,4-Dichlorophenol	<400		400	94	ug/Kg	☼	03/02/15 16:12	03/06/15 23:24	1
2,4-Dimethylphenol	<400		400	150	ug/Kg	☼	03/02/15 16:12	03/06/15 23:24	1
2,4-Dinitrophenol	<800	*	800	700	ug/Kg	☼	03/02/15 16:12	03/06/15 23:24	1
2,4-Dinitrotoluene	<200		200	63	ug/Kg	☼	03/02/15 16:12	03/06/15 23:24	1
2,6-Dinitrotoluene	<200		200	78	ug/Kg	☼	03/02/15 16:12	03/06/15 23:24	1
2-Chloronaphthalene	<200		200	44	ug/Kg	☼	03/02/15 16:12	03/06/15 23:24	1
2-Chlorophenol	<200		200	68	ug/Kg	☼	03/02/15 16:12	03/06/15 23:24	1
2-Methylnaphthalene	<40		40	7.3	ug/Kg	☼	03/02/15 16:12	03/06/15 23:24	1
2-Methylphenol	<200		200	64	ug/Kg	☼	03/02/15 16:12	03/06/15 23:24	1
2-Nitroaniline	<200		200	54	ug/Kg	☼	03/02/15 16:12	03/06/15 23:24	1
2-Nitrophenol	<400		400	94	ug/Kg	☼	03/02/15 16:12	03/06/15 23:24	1
3 & 4 Methylphenol	<200		200	66	ug/Kg	☼	03/02/15 16:12	03/06/15 23:24	1
3,3'-Dichlorobenzidine	<200		200	56	ug/Kg	☼	03/02/15 16:12	03/06/15 23:24	1
3-Nitroaniline	<400		400	120	ug/Kg	☼	03/02/15 16:12	03/06/15 23:24	1
4,6-Dinitro-2-methylphenol	<400	*	400	320	ug/Kg	☼	03/02/15 16:12	03/06/15 23:24	1
4-Bromophenyl phenyl ether	<200		200	52	ug/Kg	☼	03/02/15 16:12	03/06/15 23:24	1
4-Chloro-3-methylphenol	<400		400	140	ug/Kg	☼	03/02/15 16:12	03/06/15 23:24	1
4-Chloroaniline	<800		800	190	ug/Kg	☼	03/02/15 16:12	03/06/15 23:24	1
4-Chlorophenyl phenyl ether	<200		200	46	ug/Kg	☼	03/02/15 16:12	03/06/15 23:24	1
4-Nitroaniline	<400		400	170	ug/Kg	☼	03/02/15 16:12	03/06/15 23:24	1
4-Nitrophenol	<800		800	380	ug/Kg	☼	03/02/15 16:12	03/06/15 23:24	1
Acenaphthene	<40		40	7.2	ug/Kg	☼	03/02/15 16:12	03/06/15 23:24	1
Acenaphthylene	<40		40	5.2	ug/Kg	☼	03/02/15 16:12	03/06/15 23:24	1
<b>Anthracene</b>	<b>20</b>	<b>J</b>	40	6.6	ug/Kg	☼	03/02/15 16:12	03/06/15 23:24	1
<b>Benzo[a]anthracene</b>	<b>140</b>		40	5.4	ug/Kg	☼	03/02/15 16:12	03/06/15 23:24	1
<b>Benzo[a]pyrene</b>	<b>180</b>		40	7.7	ug/Kg	☼	03/02/15 16:12	03/06/15 23:24	1
<b>Benzo[b]fluoranthene</b>	<b>250</b>		40	8.6	ug/Kg	☼	03/02/15 16:12	03/06/15 23:24	1
<b>Benzo[g,h,i]perylene</b>	<b>190</b>		40	13	ug/Kg	☼	03/02/15 16:12	03/06/15 23:24	1
<b>Benzo[k]fluoranthene</b>	<b>120</b>		40	12	ug/Kg	☼	03/02/15 16:12	03/06/15 23:24	1
Bis(2-chloroethoxy)methane	<200		200	41	ug/Kg	☼	03/02/15 16:12	03/06/15 23:24	1
Bis(2-chloroethyl)ether	<200		200	60	ug/Kg	☼	03/02/15 16:12	03/06/15 23:24	1
Bis(2-ethylhexyl) phthalate	<200		200	73	ug/Kg	☼	03/02/15 16:12	03/06/15 23:24	1
Butyl benzyl phthalate	<200		200	76	ug/Kg	☼	03/02/15 16:12	03/06/15 23:24	1
Carbazole	<200		200	100	ug/Kg	☼	03/02/15 16:12	03/06/15 23:24	1
<b>Chrysene</b>	<b>200</b>		40	11	ug/Kg	☼	03/02/15 16:12	03/06/15 23:24	1
<b>Dibenz(a,h)anthracene</b>	<b>44</b>		40	7.7	ug/Kg	☼	03/02/15 16:12	03/06/15 23:24	1
Dibenzofuran	<200		200	47	ug/Kg	☼	03/02/15 16:12	03/06/15 23:24	1
Diethyl phthalate	<200		200	67	ug/Kg	☼	03/02/15 16:12	03/06/15 23:24	1
Dimethyl phthalate	<200		200	52	ug/Kg	☼	03/02/15 16:12	03/06/15 23:24	1
Di-n-butyl phthalate	<200		200	61	ug/Kg	☼	03/02/15 16:12	03/06/15 23:24	1
Di-n-octyl phthalate	<200		200	65	ug/Kg	☼	03/02/15 16:12	03/06/15 23:24	1
<b>Fluoranthene</b>	<b>320</b>		40	7.4	ug/Kg	☼	03/02/15 16:12	03/06/15 23:24	1
Fluorene	<40		40	5.6	ug/Kg	☼	03/02/15 16:12	03/06/15 23:24	1
Hexachlorobenzene	<80		80	9.2	ug/Kg	☼	03/02/15 16:12	03/06/15 23:24	1
Hexachlorobutadiene	<200		200	63	ug/Kg	☼	03/02/15 16:12	03/06/15 23:24	1
Hexachlorocyclopentadiene	<800		800	230	ug/Kg	☼	03/02/15 16:12	03/06/15 23:24	1
Hexachloroethane	<200		200	60	ug/Kg	☼	03/02/15 16:12	03/06/15 23:24	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Niles and Glenview - WO 011

TestAmerica Job ID: 500-92697-1

**Client Sample ID: MS-1(0-1)-022615**

**Lab Sample ID: 500-92697-8**

**Date Collected: 02/26/15 12:00**

**Matrix: Solid**

**Date Received: 02/27/15 12:30**

**Percent Solids: 81.2**

**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>150</b>		40	10	ug/Kg	☼	03/02/15 16:12	03/06/15 23:24	1
Isophorone	<200		200	45	ug/Kg	☼	03/02/15 16:12	03/06/15 23:24	1
Naphthalene	<40		40	6.1	ug/Kg	☼	03/02/15 16:12	03/06/15 23:24	1
Nitrobenzene	<40		40	9.9	ug/Kg	☼	03/02/15 16:12	03/06/15 23:24	1
N-Nitrosodi-n-propylamine	<200		200	49	ug/Kg	☼	03/02/15 16:12	03/06/15 23:24	1
N-Nitrosodiphenylamine	<200		200	47	ug/Kg	☼	03/02/15 16:12	03/06/15 23:24	1
Pentachlorophenol	<800		800	640	ug/Kg	☼	03/02/15 16:12	03/06/15 23:24	1
<b>Phenanthrene</b>	<b>120</b>		40	5.5	ug/Kg	☼	03/02/15 16:12	03/06/15 23:24	1
Phenol	<200		200	88	ug/Kg	☼	03/02/15 16:12	03/06/15 23:24	1
<b>Pyrene</b>	<b>280</b>		40	7.9	ug/Kg	☼	03/02/15 16:12	03/06/15 23:24	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	39		35 - 137				03/02/15 16:12	03/06/15 23:24	1
2-Fluorobiphenyl	42		25 - 119				03/02/15 16:12	03/06/15 23:24	1
2-Fluorophenol	35		25 - 110				03/02/15 16:12	03/06/15 23:24	1
Nitrobenzene-d5	33		25 - 115				03/02/15 16:12	03/06/15 23:24	1
Phenol-d5	43		31 - 110				03/02/15 16:12	03/06/15 23:24	1
Terphenyl-d14	51		36 - 134				03/02/15 16:12	03/06/15 23:24	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		03/06/15 09:10	03/06/15 18:06	1
<b>Barium</b>	<b>0.44</b>	<b>J</b>	0.50	0.050	mg/L		03/06/15 09:10	03/06/15 18:06	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/15 09:10	03/06/15 18:06	1
<b>Cadmium</b>	<b>0.0021</b>	<b>J</b>	0.0050	0.0020	mg/L		03/06/15 09:10	03/06/15 18:06	1
Chromium	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:06	1
Cobalt	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:06	1
<b>Copper</b>	<b>0.029</b>		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:06	1
Iron	<0.20		0.20	0.20	mg/L		03/06/15 09:10	03/06/15 18:06	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/06/15 09:10	03/06/15 18:06	1
<b>Manganese</b>	<b>0.048</b>		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:06	1
Nickel	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:06	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/15 09:10	03/06/15 18:06	1
Silver	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:06	1
<b>Zinc</b>	<b>0.048</b>	<b>J</b>	0.10	0.020	mg/L		03/06/15 09:10	03/06/15 18:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.022</b>	<b>J</b>	0.050	0.010	mg/L		03/06/15 09:10	03/06/15 18:55	1
<b>Barium</b>	<b>0.29</b>	<b>J</b>	0.50	0.050	mg/L		03/06/15 09:10	03/06/15 18:55	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/06/15 09:10	03/06/15 18:55	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/06/15 09:10	03/06/15 18:55	1
<b>Chromium</b>	<b>0.071</b>		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:55	1
<b>Cobalt</b>	<b>0.013</b>	<b>J</b>	0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:55	1
<b>Copper</b>	<b>0.083</b>		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:55	1
<b>Iron</b>	<b>54</b>		0.20	0.20	mg/L		03/06/15 09:10	03/06/15 18:55	1
<b>Lead</b>	<b>0.083</b>		0.0075	0.0075	mg/L		03/06/15 09:10	03/07/15 21:47	1
<b>Manganese</b>	<b>0.22</b>		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:55	1
<b>Nickel</b>	<b>0.056</b>		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:55	1
Selenium	<0.050		0.050	0.020	mg/L		03/06/15 09:10	03/06/15 18:55	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Niles and Glenview - WO 011

TestAmerica Job ID: 500-92697-1

**Client Sample ID: MS-1(0-1)-022615**

**Lab Sample ID: 500-92697-8**

Date Collected: 02/26/15 12:00

Matrix: Solid

Date Received: 02/27/15 12:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/06/15 09:10	03/06/15 18:55	1
Zinc	0.20		0.10	0.020	mg/L		03/06/15 09:10	03/06/15 18:55	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.1	J B	1.2	0.24	mg/Kg	⊛	03/02/15 09:51	03/04/15 04:30	1
Arsenic	7.8		0.58	0.27	mg/Kg	⊛	03/02/15 09:51	03/04/15 04:30	1
Barium	79		0.58	0.11	mg/Kg	⊛	03/02/15 09:51	03/04/15 04:30	1
Beryllium	0.90		0.23	0.050	mg/Kg	⊛	03/02/15 09:51	03/04/15 04:30	1
Cadmium	0.076	J	0.12	0.034	mg/Kg	⊛	03/02/15 09:51	03/04/15 04:30	1
Calcium	19000		12	3.7	mg/Kg	⊛	03/02/15 09:51	03/04/15 04:30	1
Chromium	24		0.58	0.10	mg/Kg	⊛	03/02/15 09:51	03/04/15 04:30	1
Cobalt	9.7		0.29	0.065	mg/Kg	⊛	03/02/15 09:51	03/04/15 04:30	1
Copper	23		0.58	0.13	mg/Kg	⊛	03/02/15 09:51	03/04/15 04:30	1
Iron	23000		12	4.5	mg/Kg	⊛	03/02/15 09:51	03/04/15 04:30	1
Lead	48		0.29	0.14	mg/Kg	⊛	03/02/15 09:51	03/04/15 04:30	1
Magnesium	11000		5.8	2.4	mg/Kg	⊛	03/02/15 09:51	03/04/15 04:30	1
Manganese	330		0.58	0.11	mg/Kg	⊛	03/02/15 09:51	03/04/15 04:30	1
Nickel	27		0.58	0.16	mg/Kg	⊛	03/02/15 09:51	03/04/15 04:30	1
Potassium	2300		29	4.7	mg/Kg	⊛	03/02/15 09:51	03/05/15 01:57	1
Selenium	0.94		0.58	0.29	mg/Kg	⊛	03/02/15 09:51	03/04/15 04:30	1
Silver	0.10	J	0.29	0.068	mg/Kg	⊛	03/02/15 09:51	03/04/15 04:30	1
Sodium	350		58	7.6	mg/Kg	⊛	03/02/15 09:51	03/05/15 01:57	1
Thallium	1.5		0.58	0.29	mg/Kg	⊛	03/02/15 09:51	03/04/15 04:30	1
Vanadium	23		0.29	0.085	mg/Kg	⊛	03/02/15 09:51	03/05/15 01:57	1
Zinc	64		1.2	0.37	mg/Kg	⊛	03/02/15 09:51	03/04/15 04:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/06/15 12:00	03/06/15 17:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/06/15 12:00	03/06/15 16:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	27		20	6.8	ug/Kg	⊛	03/02/15 15:30	03/03/15 11:46	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.13		0.200	0.200	SU			03/03/15 13:24	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Niles and Glenview - WO 011

TestAmerica Job ID: 500-92697-1

## Qualifiers

### GC/MS VOA

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

### GC/MS Semi VOA

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

### Metals

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

## Glossary

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



# Certification Summary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Niles and Glenview - WO 011

TestAmerica Job ID: 500-92697-1

## Laboratory: TestAmerica Chicago

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

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

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

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

\* Certification renewal pending - certification considered valid.

# TestAmerica

THE LEADER IN ENVIRONMENTAL

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



500-92697 COC

Report To (optional)  
Contact: S. Babusukumar  
Company: Weston Solutions  
Address: 300 Plaza Circle #202  
Address: Mundelein, IL 60060  
Phone: 224-864-7250  
Fax:  
E-Mail: Babu.Babusukumar@westonsolutions.com

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

## Chain of Custody Record

Lab Job #: 500-92697

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

Page 1 of 2

Temperature °C of Cooler: 3.1

Client		Client Project #		Preservative							Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		Parameter								
Project Location/State		Lab PM										
Sampler												
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCS	SVOCS	metals	TCU/SLT/MS/MS	PH	Comments
1		MG-2(0-1)-022615	2-26-15	10:00	2	SO	X	X	X	X	X	
2		MG-1(0-7)-022615		10:25								
<del>MG-1(0-7)-022615</del>												
3		MG-1(7-15)-022615		10:30								
4		MG-1(7-15)-022615 D		10:30								
5		AB-1(0-1)-022615		10:45								
6		CB1-1(0-1)-022615		11:10								
7		GD-1(0-1)-022615		11:25								
8		MS-1(0-1)-022615		12:00								
9		GD-2(0-7)-022615	2-26-15	13:40	2	SO	X	X	X	X	X	

Turnaround Time Required (Business Days)

\_\_\_ 1 Day \_\_\_ 2 Days \_\_\_ 5 Days \_\_\_ 7 Days \_\_\_ 10 Days \_\_\_ 15 Days std 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>Shirley Ann</u> Company <u>Weston</u> Date <u>2-27-15</u> Time <u>1045</u>	Received By <u>Shirley Ann</u> Company <u>TA</u> Date <u>2/27/15</u> Time <u>1045</u>	Lab Courier <u>TA</u>
Relinquished By <u>Shirley Ann</u> Company <u>TA</u> Date <u>2/27/15</u> Time <u>1230</u>	Received By <u>Shirley Ann</u> Company <u>TA-CHE</u> Date <u>2/27/15</u> Time <u>1230</u>	Shipped _____
Relinquished By _____ Company _____ Date _____ Time _____	Received By _____ Company _____ Date _____ Time _____	Hand Delivered _____

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

Client Comments

Lab Comments:

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

Report To: (optional) S. Babusukumar  
 Contact: S. Babusukumar  
 Company: Weston Solutions, Inc.  
 Address: 300 Plaza Circle #202  
 Address: Mundelein, IL 60060  
 Phone: 224-804-7250  
 Fax: \_\_\_\_\_  
 E-Mail: S.Babusukumar@westonsolutions.com

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

## Chain of Custody Record

Lab Job #: 500-92697  
 Chain of Custody Number: \_\_\_\_\_  
 Page 2 of 2  
 Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative							Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other
Project Name		Parameter							Comments		
Project Location/State		Lab Project #									
Sampler		Lab PM									
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix	VOCS	SVOCS	metals	TCLP/ SPLP metals	PH
10		GD-2(7-15)-022615	2/26/15	13:45	2	SO	X	X	X	X	X
11		TU-1(0-7)-022615		14:40	1						
12		TU-1(7-15)-022615		14:45	1						
13		Gm-1(0-7)-022615		15:25	1						
14		Gm-1(7-15)-022615		15:30	1						
15		CB2-1(0-7)-022615		16:10	1						
16		CB2-1(7-15)-022615		16:15	1						
17		CB2-1(7-15)-022615	2/26/15	16:15	2	SO	X	X	X	X	X
* last item *											

Turnaround Time Required (Business Days)

1 Day  2 Days  5 Days  7 Days  10 Days  15 Days  std 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>David Allen</u> Company: <u>Weston</u> Date: <u>2/27/15</u> Time: <u>10:45</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>2/27/15</u> Time: <u>10:45</u>
Relinquished By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>2/27/15</u> Time: <u>12:30</u>	Received By: <u>[Signature]</u> Company: <u>TA-INT</u> Date: <u>2/27/15</u> Time: <u>12:30</u>

Lab Courier: TA  
 Shipped: \_\_\_\_\_  
 Hand Delivered: \_\_\_\_\_

Matrix Key

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

Client Comments

Lab Comments: