Weston Solutions, Inc.
1400 Weston Way
P.O. Box 2653
West Chester, Pennsylvania 19380
610-701-3000 • Fax 610-701-3186
www.westonsolutions.com

The Trusted Integrator for Sustainable Solutions

February 19, 2015

Mr. Brian Sadowski
New York State Department of Environmental Conservation
270 Michigan Avenue
Buffalo, New York 14203-2915

W.O. No. 02181.086.022

Re: Periodic Review Report (February 14, 2014 to February 14, 2015)
and IC/EC Certification
3M Tonawanda, New York Facility
Order on Consent # B9-0369-91-04, Site Code #915148

Dear Mr. Sadowski:

In accordance with the referenced Order on Consent (Order) and at 3M's direction, we are submitting the Periodic Review Report (PRR) for the 3M Tonawanda, NY facility for the period extending from February 14, 2014 to February 14, 2015.

We also have enclosed the completed Institutional and Engineering Controls Certification Form for this site.

Should you have any comments or questions, please contact me at 610-701-3677.

Very truly yours,

WESTON SOLUTIONS, INC.

Mike Corrsin for

Thomas A. Drew, P.G.
Principal Project Manager

c: J. Pettinelli, 3M (w/ enclosure)
K. Held, 3M (w/ enclosure)
G. May, NYSDEC (w/enclosure)

Enclosure 2

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form

Site Details **Box 1**

Site No. 915148

Site Name 3M O-Cel-O Sponge Plant

Site Address: 305 Sawyer Avenue Zip Code: 14150
City/Town: Tonawanda
County: Erie
Site Acreage: 1.0

Reporting Period: February 14, 2014 to February 14, 2015

	YES	NO
1. Is the information above correct?	☒	☐
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	☒
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	☒
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	☒
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?	☐	☒

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Industrial	☒	☐
7. Are all ICs/ECs in place and functioning as designed?	☒	☐

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

SITE NO. 915148 Box 3

Description of Institutional Controls

Parcel	Owner	Institutional Control
65.09-6-5	Minnesota Mining & Manufacturing	Landuse Restriction Monitoring Plan

A No Further Action Record of Decision (ROD) was issued for this site in March 1999. A Declaration of Convenants and Restrictions was placed on the property on March 21, 2001 prohibiting the residential use of the site. The graded area surrounding the catch basins are maintained and inspected annually. Groundwater monitoring is also conducted to confirm that site conditions remain unchanged and to detect any future migration of CS2, should it occur. The site is fenced.

Box 4

Description of Engineering Controls

Parcel	Engineering Control
65.09-6-5	Fencing/Access Control

Box 5

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

   a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

   b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete.

YES	NO
☒	☐

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

   (a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

   (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

   (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

   (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

   (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES	NO
☒	☐

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. 915148

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Carl Carleton (print name) at 305 Sawyer Ave, Tonawanda, NY (print business address)

am certifying as Plant Manager (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

Carl Carleton
Signature of Owner, Remedial Party, or Designated Representative Rendering Certification

2-17-15
Date

IC/EC CERTIFICATIONS

Box 7

Qualified Environmental Professional Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I MICHAEL H. CORBIN (print name) at 1400 WESTON WAY, WEST CHESTER, PA (print business address),

am certifying as a Qualified Environmental Professional for the OWNER (Owner or Remedial Party)

Signature of Qualified Environmental Professional, for the Owner or Remedial Party, Rendering Certification

SEAL BELOW
Stamp (Required for PE)

2-19-15
Date

B S

PERIODIC REVIEW REPORT

Site Name and Location:	3M Facility, Tonawanda, New York
Registry Number:	915148
Order on Consent:	B9-0369-91-04
3M Project Contacts:	Justin Pettinelli (3M Corporate) Keith Held (3M Tonawanda)
NYSDEC Project Lead:	Glenn May
Reporting Period:	February 14, 2014 to February 14, 2015

Background

The New York State Department of Environmental Conservation (NYSDEC) issued a Record of Decision (ROD) (Registry No. 915148) for the 3M facility in Tonawanda, New York. This ROD presents the selected remedial action for the Tonawanda facility based on the site's Administrative Record and public input. Following ROD issuance, the NYSDEC reclassified the 3M Tonawanda site from "Class 3 – Does not present a significant threat to the public health or environment – action may be deferred", to "Class 4 – Site properly closed – requires continued management."

3M is implementing the selected ROD remedy, No Further Action with Monitoring, under an Order on Consent (Index # B9-0369-91-04) (Order) according to the NYSDEC-approved Operation and Maintenance Work Plan (O&M Work Plan), which was made part of the Order. The original O&M Work Plan called for:

- Filing a Declaration of Covenants and Restrictions with the property deed at the Erie County Clerk's Office. This was completed and was reported in the initial progress report for the period ending March 31, 2001.
- Performing long-term groundwater monitoring. Involved semiannual sampling of site monitor wells MW-1, MW-2, MW-3, and MW-4 and annual sampling of the two site lysimeters, LY-1 and LY-2, with groundwater samples analyzed for carbon disulfide (CS_2).
- Inspecting the completed interim remedial measures (IRMs) (includes the CS_2 tank system, and the catch basin and associated swale) and maintaining the integrity of the IRMs.

Semiannual periodic review reports have been submitted by 3M to NYSDEC and these reports summarize project activities that occurred in the previous reporting periods. In

August 2005, the Five-Year Evaluation Report was submitted by 3M to NYSDEC and this report concluded that the selected remedy has been effective in meeting remediation goals outlined in the 1999 ROD and remains protective of human health and the environment. The aforementioned evaluation report also contained a recommended future course of action for the facility, including reductions in groundwater monitoring and reporting under the Order/O&M Plan.

By letter of May 18, 2006, NYSDEC provided comment on the Five-Year Evaluation Report. Based on the presence of CS_2 in the subsurface environment, NYSDEC required continued monitoring at this facility, but required only one site monitoring well (MW-4) and one site lysimeter (LY-2) be monitored for CS_2 on a semiannual basis and annual basis, respectively. According to the May 2006 NYSDEC correspondence, reporting on the maintenance of the drainage swale and associated catch basins would continue under the Order/O&M Plan; however, reporting on the continued operations, maintenance and inspection of the existing CS_2 tank system could be completed by 3M under NYSDEC's Chemical Bulk Storage Program.

This Periodic Review Report (PRR) reflects the O&M monitoring and reporting modifications agreed upon with NYSDEC. Sampling of the reduced monitoring network under the modified O&M Plan was completed in May 2014 and November 2014. The results from these sampling events are presented herein, along with a description of any maintenance activity conducted in the swale. Also, all analytical results presented in this (PRR) will be uploaded into NYSDEC's EQuIS system in March 2015.

Summary of Activities Performed During the Reporting Period

The following is a summary of activities performed by 3M during the reporting period:

- Groundwater samples for CS_2 analysis were collected from monitoring well MW-4 (primary sample and duplicate sample) and lysimeter LY-02 on May 28, 2014 in accordance with the O&M Plan modifications approved by NYSDEC. Laboratory analytical results from the May 28, 2014 sampling event are provided in this report. Photographs of the site groundwater monitoring well and lysimeter taken on November 11, 2014 are provided in Attachment A.

- Groundwater samples for CS_2 analysis were collected from monitoring well MW-4 (primary sample and duplicate sample) on November 14, 2014 pursuant to the O&M Plan modifications. The sampling results from the November 14, 2014 event are provided in this report.

- No maintenance activity was conducted in the subject drainage swale during the reporting period. Vegetation and grading in this swale are in good condition. Photographs showing the condition of the drainage swale, catch basin and fencing at the time of the site inspection in November 11, 2014 are provided in Attachment A.

- The annual compliance inspection/evaluation was completed on November 11, 2014. No deficiencies were noted during the inspection.

Groundwater Monitoring Results

Summary of Carbon Disulfide Water Analytical Results (mg/L)

Sampling Date	Sample ID and Result		
	MW-4	MW-4 Duplicate	LY-02
5/28/2014	0.45 J	0.43 J	310
11/14/2014	ND	ND	NS

Notes: ND: Not detected at the reporting limit. The reporting limit for CS_2 is 5 µg/L for MW-4, and 40 mg/L for LY-02 due to sample dilution at the laboratory.

NS: Not sampled per approved plan.

J: Result is less than the reporting limit of 5 µg/L but greater than or equal to the method detection limit of 0.19 µg/L and the concentration is an approximate value.

As noted above, CS_2 was not detected above the reporting limit in the groundwater samples collected from monitoring well MW-4 in May 2014 and November 2014. CS_2 was detected at a concentration of 310 mg/L in the pore water sample collected from lysimeter LY-02. This finding is consistent with previous sample results. A copy of the completed well purging/sampling forms and the laboratory data packages for the May and November 2014 sampling events is provided in Attachment B.

ATTACHMENT A
SITE PHOTOGRAPHS – NOVEMBER 11, 2014

Groundwater Monitoring Well

Catch Basin, Swale and Fencing

Lysimeter

Drainage Collection

ATTACHMENT B
WELL PURGING/SAMPLING FORMS
AND LABORATORY ANALYTICAL PACKAGES
MAY 2014 AND NOVEMBER 2014 SAMPLING EVENTS

WELL PURGING/SAMPLING FORMS

WESTON

Well Evacuation/Sampling Form

SITE INFORMATION	Tonawanda, NY		5/28/14
Well No.:	MW-04	**Weather:** (Sunny) Cloudy Rain	**Temp:** 65°
Sampling Team:	Greg Flasinski	**Sampler's Signature:**	

WELL INFORMATION

Protective Casing:	(Intact) / Damaged	**Concrete Base:**	(Intact) / Damaged
Locked:	(YES) / NO	**Well Diameter:**	2"

WELL EVACUATION INFORMATION

A. Total Depth (Top of Casing = TOC):	72.90	**Well Evacuation Method**
B. Depth to Water (DTW) (TOC):	-31.18	(✓) BAILER
C. Column of Standing Water (C=A-B):	41.72	( ) 2-Inch Grundfos
D. Purge Factor	x 0.16	( ) Peristaltic Pump
E. One Well Volume:	6.68	( ) Other (Specify)
F. Three Well Volumes (gallons): **Sampled using LOW-FLOW**	20.03	**TOTAL VOLUME PURGED:** 20

INDICATOR PARAMETERS

Time	1020	1032	1044	1056					
Purge Rate (gal. per minute)									
Total Gallons Purged									
Temperature (°C):	14.6	13.2	13.2	13.2					
Specific Conductivity (s):	210.9	1047	3803	3880					
pH:	9.67	8.33	8.20	7.89					
SECONDARY PARAMETERS									
ORP (mV):									
Dissolved Oxygen (mg/L):									
Turbidity:	102.6	125	292	173					

NAPL Observed: YES / (NO)	**Well Pumped Dry:** YES / (NO)
ODOR: YES / (NO)	**Other:**
Odor Type: ( ) Solvent ( ) Septic ( ) Other	

SAMPLE COLLECTION INFORMATION **SAMPLE DATE:** 5/28/14

Sample No.	Time	Sample No.	Time
Media Sample ID: MW-04	1100	Rinsate Blank: (YES) / NO FB-MW-04	1015
Duplicate: YES / NO MW-04 DUP	1100	Field Blank: YES / (NO)	

Parameters:
- (✓) ~~8260 VOC~~ CS_2 only +5ppb
- ( ) Chlorides
- ( ) TDS
- ( ) Metals (Total RCRA) Non-filtered
- ( ) Metals (Total RCRA) Filtered
- ( ) Fluorides

Also sampled for:

COMMENTS

	Well Pumped Dry: YES / (NO)
	Volume Purged: 20
	Well Requires Maintenance? YES / (NO)
	Access Requires Maintenance? YES / (NO)

Purge Factors: 1" (0.04); 2" (0.16); 3" (0.37); 4" (0.65); 6" (1.47); 8" (2.61); 10" (4.08)

WESTON
Restoring Resource Efficiency

Well Evacuation/Sampling Form

SITE INFORMATION 3M Tonawanda			11/14/14
Well No.: MW-04		**Weather:** Sunny Cloudy Rain	**Temp:** 33°
Sampling Team: Greg Flasiuski		**Sampler's Signature:**	

WELL INFORMATION

Protective Casing:	Intact / Damaged	**Concrete Base:**	Intact / Damaged
Locked:	YES / NO	**Well Diameter:**	2"

WELL EVACUATION INFORMATION

A. Total Depth (Top of Casing = TOC):	72.90	**Well Evacuation Method**
B. Depth to Water (DTW) (TOC):	-32.22	(✓) BAILER
C. Column of Standing Water (C=A-B):	40.68	( ) 2-Inch Grundfos
D. Purge Factor	X .16	( ) Peristaltic Pump
E. One Well Volume:	6.5	( ) Other (Specify)
F. Three Well Volumes (gallons):	19.5	**TOTAL VOLUME PURGED:** 19.5

INDICATOR PARAMETERS

Time	1239	1248	1356	1307					
Purge Rate (gal. per minute)									
Total Gallons Purged									
Temperature (°C):	12.7	12.1	12.2	12.3					
Specific Conductivity (s):	254	1025	2130	3279					
pH:	10.30	11.95	11.71	9.01					
~~SECONDARY PARAMETERS~~ DTW	32.22			36.41					
ORP (mV):	—	—	—	—					
Dissolved Oxygen (mg/L):	—	—	—	—					
Turbidity:	87	211	124	79					

NAPL Observed: YES / (NO)	**Well Pumped Dry:** YES / (NO)
ODOR: YES / (NO)	**Other:**
Odor Type: ( ) Solvent ( ) Septic ( ) Other	

SAMPLE COLLECTION INFORMATION **SAMPLE DATE:** 11/14/14

Sample No.	Time	Sample No.	Time
Media Sample ID: MW-04	1315	Rinsate Blank: YES (NO)	
Duplicate: (YES) / NO MW-04	1315	Field Blank: (YES) / NO FB-MW-04	1225

Parameters:
(✓) 8260 VOC CS_2 ( ) Fluorides
( ) Chlorides
( ) TDS
( ) Metals (Total RCRA) Non-filtered
( ) Metals (Total RCRA) Filtered

COMMENTS

Well Pumped Dry: YES / (NO)
Volume Purged: 19.5
Well Requires Maintenance? YES / (NO)
Access Requires Maintenance? YES / (NO)

Purge Factors: 1" (0.04); 2" (0.16); 3" (0.37); 4" (0.65); 6" (1.47); 8" (2.61); 10" (4.08)

LABORATORY ANALYTICAL PACKAGES

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-60621-1
Client Project/Site: 3M Tonawanda
Sampling Event: 3M Tonawanda, NY - Semi-Annual Monit.

For:
Weston Solutions, Inc.
1400 Weston Way
PO BOX 2653
West Chester, Pennsylvania 19380

Attn: Mr. Tom Drew

Authorized for release by:
5/31/2014 12:27:31 PM
Anne Pridgeon, Project Management Assistant I
anne.pridgeon@testamericainc.com

Designee for

Candace Fox, Manager of Project Management
(716)504-9844
candace.fox@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.

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Detection Summary 5
Client Sample Results 6
Surrogate Summary 8
QC Sample Results 9
QC Association Summary 10
Lab Chronicle 11
Certification Summary 12
Method Summary 13
Sample Summary 14
Chain of Custody 15
Receipt Checklists 16

3

Qualifiers

GC/MS VOA

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

Glossary

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

Case Narrative

Client: Weston Solutions, Inc.
Project/Site: 3M Tonawanda

TestAmerica Job ID: 480-60621-1

Job ID: 480-60621-1

Laboratory: TestAmerica Buffalo

4

Narrative

Job Narrative
480-60621-1

Comments
No additional comments.

Receipt
The samples were received on 5/28/2014 11:55 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.1° C.

GC/MS VOA
Method 8260C: The following sample(s) was diluted to bring the concentration of target analytes within the calibration range: LY-02 (480-60621-4). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Weston Solutions, Inc.
Project/Site: 3M Tonawanda

TestAmerica Job ID: 480-60621-1

Client Sample ID: MW-04

Lab Sample ID: 480-60621-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.45	J	5.0	0.19	ug/L	1		8260C	Total/NA

Client Sample ID: MW-04 DUP

Lab Sample ID: 480-60621-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.43	J	5.0	0.19	ug/L	1		8260C	Total/NA

Client Sample ID: FB-MW-04

Lab Sample ID: 480-60621-3

No Detections.

Client Sample ID: LY-02

Lab Sample ID: 480-60621-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	310000		40000	1500	ug/L	8000		8260C	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 480-60621-5

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-04

Date Collected: 05/28/14 11:00
Date Received: 05/28/14 11:55

Lab Sample ID: 480-60621-1
Matrix: Monitor Well

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	0.45	J	5.0	0.19	ug/L			05/29/14 19:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*66 - 137*		*05/29/14 19:54*	*1*
Toluene-d8 (Surr)	*99*		*71 - 126*		*05/29/14 19:54*	*1*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*05/29/14 19:54*	*1*

Client Sample ID: MW-04 DUP

Date Collected: 05/28/14 11:00
Date Received: 05/28/14 11:55

Lab Sample ID: 480-60621-2
Matrix: Monitor Well

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	0.43	J	5.0	0.19	ug/L			05/29/14 20:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*66 - 137*		*05/29/14 20:18*	*1*
Toluene-d8 (Surr)	*99*		*71 - 126*		*05/29/14 20:18*	*1*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*05/29/14 20:18*	*1*

Client Sample ID: FB-MW-04

Date Collected: 05/28/14 10:15
Date Received: 05/28/14 11:55

Lab Sample ID: 480-60621-3
Matrix: Monitor Well

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		5.0	0.19	ug/L			05/29/14 20:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*66 - 137*		*05/29/14 20:42*	*1*
Toluene-d8 (Surr)	*99*		*71 - 126*		*05/29/14 20:42*	*1*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*		*05/29/14 20:42*	*1*

Client Sample ID: LY-02

Date Collected: 05/28/14 11:30
Date Received: 05/28/14 11:55

Lab Sample ID: 480-60621-4
Matrix: Monitor Well

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	310000		40000	1500	ug/L			05/29/14 21:05	8000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*66 - 137*		*05/29/14 21:05*	*8000*
Toluene-d8 (Surr)	*97*		*71 - 126*		*05/29/14 21:05*	*8000*
4-Bromofluorobenzene (Surr)	*105*		*73 - 120*		*05/29/14 21:05*	*8000*

Client: Weston Solutions, Inc.
Project/Site: 3M Tonawanda

TestAmerica Job ID: 480-60621-1

Client Sample ID: Trip Blank
Date Collected: 05/28/14 09:00
Date Received: 05/28/14 11:55

Lab Sample ID: 480-60621-5
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		5.0	0.19	ug/L			05/29/14 21:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*66 - 137*		*05/29/14 21:29*	*1*
Toluene-d8 (Surr)	*99*		*71 - 126*		*05/29/14 21:29*	*1*
4-Bromofluorobenzene (Surr)	*105*		*73 - 120*		*05/29/14 21:29*	*1*

Surrogate Summary

Client: Weston Solutions, Inc.
Project/Site: 3M Tonawanda

TestAmerica Job ID: 480-60621-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Monitor Well

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		12DCE	TOL	BFB
Lab Sample ID	Client Sample ID	(66-137)	(71-126)	(73-120)
480-60621-1	MW-04	106	99	102
480-60621-2	MW-04 DUP	106	99	103
480-60621-3	FB-MW-04	107	99	104
480-60621-4	LY-02	106	97	105

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		12DCE	TOL	BFB
Lab Sample ID	Client Sample ID	(66-137)	(71-126)	(73-120)
480-60621-5	Trip Blank	105	99	105
LCS 480-184587/5	Lab Control Sample	104	99	104
LCSD 480-184587/6	Lab Control Sample Dup	105	98	105
MB 480-184587/8	Method Blank	105	99	101

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-184587/8
Matrix: Water
Analysis Batch: 184587

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		5.0	0.19	ug/L			05/29/14 13:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*66 - 137*		*05/29/14 13:39*	*1*
Toluene-d8 (Surr)	*99*		*71 - 126*		*05/29/14 13:39*	*1*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*05/29/14 13:39*	*1*

Lab Sample ID: LCS 480-184587/5
Matrix: Water
Analysis Batch: 184587

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*66 - 137*
Toluene-d8 (Surr)	*99*		*71 - 126*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*

Lab Sample ID: LCSD 480-184587/6
Matrix: Water
Analysis Batch: 184587

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*66 - 137*
Toluene-d8 (Surr)	*98*		*71 - 126*
4-Bromofluorobenzene (Surr)	*105*		*73 - 120*

QC Association Summary

Client: Weston Solutions, Inc.
Project/Site: 3M Tonawanda

TestAmerica Job ID: 480-60621-1

GC/MS VOA

Analysis Batch: 184587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-60621-1	MW-04	Total/NA	Monitor Well	8260C	
480-60621-2	MW-04 DUP	Total/NA	Monitor Well	8260C	
480-60621-3	FB-MW-04	Total/NA	Monitor Well	8260C	
480-60621-4	LY-02	Total/NA	Monitor Well	8260C	
480-60621-5	Trip Blank	Total/NA	Water	8260C	
LCS 480-184587/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-184587/6	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 480-184587/8	Method Blank	Total/NA	Water	8260C	

9

Lab Chronicle

Client: Weston Solutions, Inc.
Project/Site: 3M Tonawanda

TestAmerica Job ID: 480-60621-1

Client Sample ID: MW-04

Lab Sample ID: 480-60621-1

Date Collected: 05/28/14 11:00
Matrix: Monitor Well
Date Received: 05/28/14 11:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	184587	05/29/14 19:54	CXM	TAL BUF

Client Sample ID: MW-04 DUP

Lab Sample ID: 480-60621-2

Date Collected: 05/28/14 11:00
Matrix: Monitor Well
Date Received: 05/28/14 11:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	184587	05/29/14 20:18	CXM	TAL BUF

Client Sample ID: FB-MW-04

Lab Sample ID: 480-60621-3

Date Collected: 05/28/14 10:15
Matrix: Monitor Well
Date Received: 05/28/14 11:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	184587	05/29/14 20:42	CXM	TAL BUF

Client Sample ID: LY-02

Lab Sample ID: 480-60621-4

Date Collected: 05/28/14 11:30
Matrix: Monitor Well
Date Received: 05/28/14 11:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		8000	184587	05/29/14 21:05	CXM	TAL BUF

Client Sample ID: Trip Blank

Lab Sample ID: 480-60621-5

Date Collected: 05/28/14 09:00
Matrix: Water
Date Received: 05/28/14 11:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	184587	05/29/14 21:29	CXM	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: 3M Tonawanda

TestAmerica Job ID: 480-60621-1

Laboratory: TestAmerica Buffalo

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-15

Method Summary

Client: Weston Solutions, Inc.
Project/Site: 3M Tonawanda

TestAmerica Job ID: 480-60621-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

12

Sample Summary

Client: Weston Solutions, Inc.
Project/Site: 3M Tonawanda

TestAmerica Job ID: 480-60621-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-60621-1	MW-04	Monitor Well	05/28/14 11:00	05/28/14 11:55
480-60621-2	MW-04 DUP	Monitor Well	05/28/14 11:00	05/28/14 11:55
480-60621-3	FB-MW-04	Monitor Well	05/28/14 10:15	05/28/14 11:55
480-60621-4	LY-02	Monitor Well	05/28/14 11:30	05/28/14 11:55
480-60621-5	Trip Blank	Water	05/28/14 09:00	05/28/14 11:55

13

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody

480-60621 Chain of Custody

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Greg Flaskiski	Lab PM: Fox, Candace L	TAL No: 0-49818-11235.1
Client Contact: Mr. Tom Drew	Phone: 610.701.0583	E-Mail: candace.fox@testamer	Page: Page 1 of 1
Company: Weston Solutions, Inc.			Job #:
Address: 1400 Weston Way PO BOX 2653	Due Date Requested:		
City: West Chester	TAT Requested (days):		
State, Zip: PA, 19380			
Phone: 610-701-7302(Tel) 610-701-7401(Fax)	PO #: 55600		
Email: t.drew@westonsolutions.com	WO #: 02181.086.017.0001		
Project Name: 3M Tonawanda/ Event Desc: 3M Tonawanda, NY - Semi-Annual	Project #: 48003524		
Site: New York	SSOW#:		

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - (MOD) Pick a reference price	Total Number of containers	Special Instructions/Note:
		Preservation Code:					A		
MW-04	5/28/14	1100	G	Water			✓		* 5ppb Carbon Disulfide only
MW-04 DUP		1200		Water			✓		
FB-MW-04		1015		Water			✓		
LY-02		1130		Water			✓		
Trip Blank		900		Water			✓		

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by:	Date/Time: 5/28/14 1155	Company: Weston	Received by:		Date/Time: 5/28		Company
Relinquished by:	Date/Time:	Company	Received by:		Date/Time:		Company
Relinquished by:	Date/Time:	Company	Received by:		Date/Time: 5/28/14 1155		Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 2.1 #1

Login Sample Receipt Checklist

Client: Weston Solutions, Inc.

Job Number: 480-60621-1

Login Number: 60621
List Number: 1
Creator: Janish, Carl M

List Source: TestAmerica Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	WESTON
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-71445-1
Client Project/Site: 3M Tonawanda
Sampling Event: 3M Tonawanda, NY - Semi-Annual Monit.

For:
Weston Solutions, Inc.
1400 Weston Way
PO BOX 2653
West Chester, Pennsylvania 19380

Attn: Mr. Tom Drew

Candace L. Fox

Authorized for release by:
11/28/2014 11:26:30 AM

Candace Fox, Manager of Project Management
(716)504-9844
candace.fox@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.

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Detection Summary 5
Client Sample Results 6
Surrogate Summary 7
QC Sample Results 8
QC Association Summary 9
Lab Chronicle 10
Certification Summary 11
Method Summary 12
Sample Summary 13
Chain of Custody 14
Receipt Checklists 15

3

Glossary

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

Case Narrative

Client: Weston Solutions, Inc.
Project/Site: 3M Tonawanda

TestAmerica Job ID: 480-71445-1

Job ID: 480-71445-1

Laboratory: TestAmerica Buffalo

4

Narrative

Job Narrative
480-71445-1

Comments
No additional comments.

Receipt
The samples were received on 11/14/2014 1:55 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.6° C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Weston Solutions, Inc.
Project/Site: 3M Tonawanda

TestAmerica Job ID: 480-71445-1

Client Sample ID: Trip Blank **Lab Sample ID: 480-71445-1**

No Detections.

Client Sample ID: FB-MW-04 **Lab Sample ID: 480-71445-2**

No Detections.

Client Sample ID: MW-04 **Lab Sample ID: 480-71445-3**

No Detections.

Client Sample ID: MW-04 DUP **Lab Sample ID: 480-71445-4**

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: Trip Blank

Lab Sample ID: 480-71445-1

Date Collected: 11/14/14 12:00
Date Received: 11/14/14 13:55

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		5.0	0.19	ug/L			11/25/14 06:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*66 - 137*		*11/25/14 06:05*	*1*
Toluene-d8 (Surr)	*98*		*71 - 126*		*11/25/14 06:05*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*11/25/14 06:05*	*1*

Client Sample ID: FB-MW-04

Lab Sample ID: 480-71445-2

Date Collected: 11/14/14 12:25
Date Received: 11/14/14 13:55

Matrix: Monitor Well

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		5.0	0.19	ug/L			11/25/14 06:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*66 - 137*		*11/25/14 06:30*	*1*
Toluene-d8 (Surr)	*98*		*71 - 126*		*11/25/14 06:30*	*1*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*11/25/14 06:30*	*1*

Client Sample ID: MW-04

Lab Sample ID: 480-71445-3

Date Collected: 11/14/14 13:15
Date Received: 11/14/14 13:55

Matrix: Monitor Well

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		5.0	0.19	ug/L			11/25/14 06:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*66 - 137*		*11/25/14 06:55*	*1*
Toluene-d8 (Surr)	*98*		*71 - 126*		*11/25/14 06:55*	*1*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*11/25/14 06:55*	*1*

Client Sample ID: MW-04 DUP

Lab Sample ID: 480-71445-4

Date Collected: 11/14/14 13:15
Date Received: 11/14/14 13:55

Matrix: Monitor Well

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		5.0	0.19	ug/L			11/25/14 07:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*66 - 137*		*11/25/14 07:20*	*1*
Toluene-d8 (Surr)	*98*		*71 - 126*		*11/25/14 07:20*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*11/25/14 07:20*	*1*

Surrogate Summary

Client: Weston Solutions, Inc.
Project/Site: 3M Tonawanda

TestAmerica Job ID: 480-71445-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Monitor Well

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		12DCE	TOL	BFB
Lab Sample ID	Client Sample ID	(66-137)	(71-126)	(73-120)
480-71445-2	FB-MW-04	109	98	101
480-71445-3	MW-04	109	98	102
480-71445-4	MW-04 DUP	110	98	100

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		12DCE	TOL	BFB
Lab Sample ID	Client Sample ID	(66-137)	(71-126)	(73-120)
480-71445-1	Trip Blank	108	98	100
LCS 480-215760/5	Lab Control Sample	102	100	104
MB 480-215760/7	Method Blank	108	99	102

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

Client: Weston Solutions, Inc.
Project/Site: 3M Tonawanda

TestAmerica Job ID: 480-71445-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-215760/7
Matrix: Water
Analysis Batch: 215760

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		5.0	0.19	ug/L			11/25/14 00:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*66 - 137*		*11/25/14 00:52*	*1*
Toluene-d8 (Surr)	*99*		*71 - 126*		*11/25/14 00:52*	*1*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*11/25/14 00:52*	*1*

Lab Sample ID: LCS 480-215760/5
Matrix: Water
Analysis Batch: 215760

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*66 - 137*
Toluene-d8 (Surr)	*100*		*71 - 126*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*

8

QC Association Summary

Client: Weston Solutions, Inc.
Project/Site: 3M Tonawanda

TestAmerica Job ID: 480-71445-1

GC/MS VOA

Analysis Batch: 215760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-71445-1	Trip Blank	Total/NA	Water	8260C	
480-71445-2	FB-MW-04	Total/NA	Monitor Well	8260C	
480-71445-3	MW-04	Total/NA	Monitor Well	8260C	
480-71445-4	MW-04 DUP	Total/NA	Monitor Well	8260C	
LCS 480-215760/5	Lab Control Sample	Total/NA	Water	8260C	
MB 480-215760/7	Method Blank	Total/NA	Water	8260C	

9

Lab Chronicle

Client: Weston Solutions, Inc.
Project/Site: 3M Tonawanda

TestAmerica Job ID: 480-71445-1

Client Sample ID: Trip Blank

Lab Sample ID: 480-71445-1
Matrix: Water

Date Collected: 11/14/14 12:00
Date Received: 11/14/14 13:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	215760	11/25/14 06:05	CDC	TAL BUF

Client Sample ID: FB-MW-04

Lab Sample ID: 480-71445-2
Matrix: Monitor Well

Date Collected: 11/14/14 12:25
Date Received: 11/14/14 13:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	215760	11/25/14 06:30	CDC	TAL BUF

Client Sample ID: MW-04

Lab Sample ID: 480-71445-3
Matrix: Monitor Well

Date Collected: 11/14/14 13:15
Date Received: 11/14/14 13:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	215760	11/25/14 06:55	CDC	TAL BUF

Client Sample ID: MW-04 DUP

Lab Sample ID: 480-71445-4
Matrix: Monitor Well

Date Collected: 11/14/14 13:15
Date Received: 11/14/14 13:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	215760	11/25/14 07:20	CDC	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: 3M Tonawanda

TestAmerica Job ID: 480-71445-1

Laboratory: TestAmerica Buffalo

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-15

Method Summary

Client: Weston Solutions, Inc.
Project/Site: 3M Tonawanda

TestAmerica Job ID: 480-71445-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

12

Sample Summary

Client: Weston Solutions, Inc.
Project/Site: 3M Tonawanda

TestAmerica Job ID: 480-71445-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-71445-1	Trip Blank	Water	11/14/14 12:00	11/14/14 13:55
480-71445-2	FB-MW-04	Monitor Well	11/14/14 12:25	11/14/14 13:55
480-71445-3	MW-04	Monitor Well	11/14/14 13:15	11/14/14 13:55
480-71445-4	MW-04 DUP	Monitor Well	11/14/14 13:15	11/14/14 13:55

13

Chain of Custody Record

480-71445 Chain of Custody

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
3M Western Solution Tonawanda	Tom Drew 610.701-3677	11/14/14	279216
Address	Telephone Number (Area Code)/Fax Number	Lab Number	Page 1 of 1

City	State	Zip Code	Site Contact	Lab Contact
Ton	NY		Greg Flasnsk	Cindy Fox

Project Name and Location (State)	Carrier/Waybill Number
3M Tonawanda	610.701.0583
Contract/Purchase Order/Quote No.	

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis (Attach list if more space is needed): CS4	Special Instructions/ Conditions of Receipt
Trip Blank	11/14/14	1200		/						3			X	
FB-MW-04		1225		/						3			X	CS2
MW-04		1315		/						3			X	ONLY
MW-04 Dup	↓	1315		/						3			X	5ppb detection limit

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☑ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	11/14/14	1355	1. Received By	11/14/14	1355
2. Relinquished By	Date	Time	2. Received By	Date	Time
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments

3.6 °C

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Login Sample Receipt Checklist

Client: Weston Solutions, Inc.

Job Number: 480-71445-1

Login Number: 71445
List Number: 1
Creator: Janish, Carl M

List Source: TestAmerica Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	WESTON
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	