



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: Jeannie Martin (3M Corporate)
Keith Held (3M Tonawanda)

NYSDEC Project Lead: Glenn May

Reporting Period: February 15, 2018 to June 30, 2018

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 monitoring 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 (CS₂).
- Inspecting the completed interim remedial measures (IRMs) (includes the CS₂ 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 CS₂ 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 CS₂ 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 CS₂ tank system could be completed by 3M under NYSDEC's Chemical Bulk Storage Program.

This periodic review report 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 2018. The results from this sampling event are presented herein, along with a description of any maintenance activity conducted in the swale. Also, the analytical results presented in this PRR will be uploaded to NYSDEC's database.

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 CS₂ analysis were collected from monitoring well MW-4 (primary sample and duplicate sample) and lysimeter LY-02 on May 3, 2018 in accordance with the O&M Plan modifications approved by NYSDEC. Laboratory analytical results from the May 2018 sampling 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.

Groundwater Monitoring Results

Summary of Carbon Disulfide Water Analytical Results

Sampling Date	Sample ID and Result		
	MW-4 (µg/L)	MW-4 Duplicate (µg/L)	LY-02 (mg/L)
5/3/2018	< 5	< 5	300

As noted above, CS₂ was not detected in the groundwater samples (primary and duplicate samples) collected from monitoring well MW-4 in May 2018. CS₂ was detected at a concentration of 300 mg/L in the pore water sample collected from lysimeter LY-02. This finding is consistent with previous sample results. A copy of the analytical data package and completed well purging/sampling form for the May 2018 sampling event is provided in Attachment A.



ATTACHMENT A
WELL PURGING/SAMPLING FORM AND LABORATORY ANALYTICAL
PACKAGE - MAY 2018 SAMPLING EVENT



Well Evacuation/Sampling Form

SITE INFORMATION 34 Tonawanda		5/3/18							
Well No.: MW-04	Weather: Sunny (Cloudy) Rain	Temp: 65°							
Sampling Team: Greg Flaszko	Sampler's Signature: <i>[Signature]</i>								
WELL INFORMATION									
Protective Casing: Intact / Damaged	Concrete Base: Intact / Damaged								
Locked: YES / NO	Well Diameter: 2-INCH / 4-INCH / 6-INCH								
WELL EVACUATION INFORMATION									
A. Total Depth (Top of Casing = TOC):	72.90	Well Evacuation Method <input checked="" type="checkbox"/> BAHLER <input type="checkbox"/> 2-Inch Grundfos <input type="checkbox"/> Peristaltic Pump <input type="checkbox"/> Other (Specify)							
B. Depth to Water (DTW) (TOC):	-30.53								
C. Column of Standing Water (C=A-B):	42.37								
D. Purge Factor	x 0.16								
E. One Well Volume:	6.8								
F. Three Well Volumes (gallons):	20.4	TOTAL VOLUME PURGED: _____							
INDICATOR PARAMETERS									
	Time	830	845	856	913				
Purge Rate (gal. per minute)									
Total Gallons Purged									
Temperature (°C):		14.5	13.6	13.4	13.2				
Specific Conductivity (s):		9.37	1416	3443	2689				
pH:		9.94	11.66	11.27	8.80				
SECONDARY PARAMETERS DTW		30.53	31.72	31.70	30.99				
ORP (mV):		—	—	—	—				
Dissolved Oxygen (mg/L):		—	—	—	—				
Turbidity:		86.6	121.1	87.4	78.3				
NAPL Observed: YES / <input checked="" type="checkbox"/> NO	Well Pumped Dry: YES / <input checked="" type="checkbox"/> NO								
ODOR: YES / <input checked="" type="checkbox"/> NO	Other:								
Odor Type: () Solvent () Septic () Other									
SAMPLE COLLECTION INFORMATION					SAMPLE DATE: 5/3/18				
Sample No.	Time	Sample No.	Time						
Media Sample ID: MW-04	930	Rinsate Blank: <input checked="" type="checkbox"/> YES / <input type="checkbox"/> NO	FR-MW-4	815					
Duplicate: <input checked="" type="checkbox"/> YES / <input type="checkbox"/> NO	MW-04 Dup	930	Field Blank: YES/NO						
Parameters: <input checked="" type="checkbox"/> 8260 VOC CS ₂ () Fluorides		DTW's							
() Chlorides		MW-1 (29.73) MW-3 (32.57)							
() TDS		MW-2 (30.93)							
() Metals (Total RCRA) Non-filtered									
() Metals (Total RCRA) Filtered									
COMMENTS									
					Well Pumped Dry: YES / <input checked="" type="checkbox"/> NO				
					Volume Purged:				
					Well Requires Maintenance? YES / <input checked="" type="checkbox"/> NO				
					Access Requires Maintenance? YES / <input checked="" type="checkbox"/> NO				

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

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: 480-135350-1

Client Project/Site: 3M Tonawanda

For:

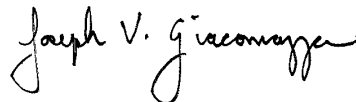
Weston Solutions, Inc.

1400 Weston Way

PO BOX 2653

West Chester, Pennsylvania 19380

Attn: Mr. Tom Drew



Authorized for release by:

5/14/2018 2:03:06 PM

Joe Giacomazza, Project Management Assistant II

joe.giacomazza@testamericainc.com

Designee for

Judy Stone, Senior Project Manager

(484)685-0868

judy.stone@testamericainc.com

LINKS

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TotalAccess

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www.testamericainc.com

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

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

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

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Definitions/Glossary

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

TestAmerica Job ID: 480-135350-1

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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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: 480-135350-1

Job ID: 480-135350-1

Laboratory: TestAmerica Buffalo

Narrative

**Job Narrative
480-135350-1**

Receipt

The samples were received on 5/3/2018 10:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.7° C.

GC/MS VOA

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

VOA Prep

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

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Detection Summary

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

TestAmerica Job ID: 480-135350-1

Client Sample ID: Trip Blank

Lab Sample ID: 480-135350-1

No Detections.

Client Sample ID: FB-MW-04

Lab Sample ID: 480-135350-2

No Detections.

Client Sample ID: MW-04

Lab Sample ID: 480-135350-3

No Detections.

Client Sample ID: MW-04DUP

Lab Sample ID: 480-135350-4

No Detections.

Client Sample ID: LY-02

Lab Sample ID: 480-135350-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	300000		50000	2200	ug/L	10000		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-135350-1

Client Sample ID: Trip Blank

Date Collected: 05/03/18 07:45

Date Received: 05/03/18 10:00

Lab Sample ID: 480-135350-1

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	0.22	ug/L			05/09/18 16:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		70 - 130					05/09/18 16:12	1
4-Bromofluorobenzene (Surr)	100		70 - 130					05/09/18 16:12	1
Toluene-d8 (Surr)	99		70 - 130					05/09/18 16:12	1
Dibromofluoromethane (Surr)	94		70 - 130					05/09/18 16:12	1

Client Sample ID: FB-MW-04

Date Collected: 05/03/18 08:15

Date Received: 05/03/18 10:00

Lab Sample ID: 480-135350-2

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	0.22	ug/L			05/09/18 16:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		70 - 130					05/09/18 16:40	1
4-Bromofluorobenzene (Surr)	97		70 - 130					05/09/18 16:40	1
Toluene-d8 (Surr)	99		70 - 130					05/09/18 16:40	1
Dibromofluoromethane (Surr)	94		70 - 130					05/09/18 16:40	1

Client Sample ID: MW-04

Date Collected: 05/03/18 09:30

Date Received: 05/03/18 10:00

Lab Sample ID: 480-135350-3

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	0.22	ug/L			05/09/18 17:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 130					05/09/18 17:07	1
4-Bromofluorobenzene (Surr)	97		70 - 130					05/09/18 17:07	1
Toluene-d8 (Surr)	97		70 - 130					05/09/18 17:07	1
Dibromofluoromethane (Surr)	96		70 - 130					05/09/18 17:07	1

Client Sample ID: MW-04DUP

Date Collected: 05/03/18 09:30

Date Received: 05/03/18 10:00

Lab Sample ID: 480-135350-4

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	0.22	ug/L			05/09/18 17:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		70 - 130					05/09/18 17:34	1
4-Bromofluorobenzene (Surr)	98		70 - 130					05/09/18 17:34	1
Toluene-d8 (Surr)	98		70 - 130					05/09/18 17:34	1
Dibromofluoromethane (Surr)	97		70 - 130					05/09/18 17:34	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-135350-1

Client Sample ID: LY-02

Date Collected: 05/03/18 09:45

Date Received: 05/03/18 10:00

Lab Sample ID: 480-135350-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	300000		50000	2200	ug/L			05/09/18 18:02	10000

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		70 - 130		05/09/18 18:02	10000
4-Bromofluorobenzene (Surr)	99		70 - 130		05/09/18 18:02	10000
Toluene-d8 (Surr)	98		70 - 130		05/09/18 18:02	10000
Dibromofluoromethane (Surr)	96		70 - 130		05/09/18 18:02	10000

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Surrogate Summary

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

TestAmerica Job ID: 480-135350-1

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA	BFB	TOL	DBFM
		(70-130)	(70-130)	(70-130)	(70-130)
480-135350-1	Trip Blank	87	100	99	94
480-135350-2	FB-MW-04	91	97	99	94
480-135350-3	MW-04	95	97	97	96
480-135350-4	MW-04DUP	92	98	98	97
480-135350-4 MS	MW-04DUP	92	103	100	95
480-135350-4 MSD	MW-04DUP	92	102	100	95
480-135350-5	LY-02	92	99	98	96
LCS 490-513680/3	Lab Control Sample	91	103	100	96
LCSD 490-513680/4	Lab Control Sample Dup	90	102	100	95
MB 490-513680/6	Method Blank	94	99	98	97

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

QC Sample Results

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

TestAmerica Job ID: 480-135350-1

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

Lab Sample ID: MB 490-513680/6
Matrix: Water
Analysis Batch: 513680

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	0.22	ug/L			05/09/18 13:24	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		70 - 130					05/09/18 13:24	1
4-Bromofluorobenzene (Surr)	99		70 - 130					05/09/18 13:24	1
Toluene-d8 (Surr)	98		70 - 130					05/09/18 13:24	1
Dibromofluoromethane (Surr)	97		70 - 130					05/09/18 13:24	1

Lab Sample ID: LCS 490-513680/3
Matrix: Water
Analysis Batch: 513680

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon disulfide	20.0	21.0		ug/L		105	77 - 126
Surrogate	%Recovery	LCS Qualifier	Limits				
1,2-Dichloroethane-d4 (Surr)	91		70 - 130				
4-Bromofluorobenzene (Surr)	103		70 - 130				
Toluene-d8 (Surr)	100		70 - 130				
Dibromofluoromethane (Surr)	96		70 - 130				

Lab Sample ID: LCSD 490-513680/4
Matrix: Water
Analysis Batch: 513680

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Carbon disulfide	20.0	20.7		ug/L		104	77 - 126	1	16
Surrogate	%Recovery	LCSD Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	90		70 - 130						
4-Bromofluorobenzene (Surr)	102		70 - 130						
Toluene-d8 (Surr)	100		70 - 130						
Dibromofluoromethane (Surr)	95		70 - 130						

Lab Sample ID: 480-135350-4 MS
Matrix: Water
Analysis Batch: 513680

Client Sample ID: MW-04DUP
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon disulfide	ND		20.0	22.5		ug/L		112	35 - 150
Surrogate	%Recovery	MS Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	92		70 - 130						
4-Bromofluorobenzene (Surr)	103		70 - 130						
Toluene-d8 (Surr)	100		70 - 130						
Dibromofluoromethane (Surr)	95		70 - 130						

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-135350-1

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

Lab Sample ID: 480-135350-4 MSD

Matrix: Water

Analysis Batch: 513680

Client Sample ID: MW-04DUP

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Carbon disulfide	ND		20.0	21.2		ug/L		106	35 - 150	6	21
MSD MSD											
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	92		70 - 130								
4-Bromofluorobenzene (Surr)	102		70 - 130								
Toluene-d8 (Surr)	100		70 - 130								
Dibromofluoromethane (Surr)	95		70 - 130								

QC Association Summary

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

TestAmerica Job ID: 480-135350-1

GC/MS VOA

Analysis Batch: 513680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-135350-1	Trip Blank	Total/NA	Water	8260C	
480-135350-2	FB-MW-04	Total/NA	Water	8260C	
480-135350-3	MW-04	Total/NA	Water	8260C	
480-135350-4	MW-04DUP	Total/NA	Water	8260C	
480-135350-5	LY-02	Total/NA	Water	8260C	
MB 490-513680/6	Method Blank	Total/NA	Water	8260C	
LCS 490-513680/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 490-513680/4	Lab Control Sample Dup	Total/NA	Water	8260C	
480-135350-4 MS	MW-04DUP	Total/NA	Water	8260C	
480-135350-4 MSD	MW-04DUP	Total/NA	Water	8260C	

Lab Chronicle

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

TestAmerica Job ID: 480-135350-1

Client Sample ID: Trip Blank

Date Collected: 05/03/18 07:45

Date Received: 05/03/18 10:00

Lab Sample ID: 480-135350-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	513680	05/09/18 16:12	AK1	TAL NSH

Client Sample ID: FB-MW-04

Date Collected: 05/03/18 08:15

Date Received: 05/03/18 10:00

Lab Sample ID: 480-135350-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	513680	05/09/18 16:40	AK1	TAL NSH

Client Sample ID: MW-04

Date Collected: 05/03/18 09:30

Date Received: 05/03/18 10:00

Lab Sample ID: 480-135350-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	513680	05/09/18 17:07	AK1	TAL NSH

Client Sample ID: MW-04DUP

Date Collected: 05/03/18 09:30

Date Received: 05/03/18 10:00

Lab Sample ID: 480-135350-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	513680	05/09/18 17:34	AK1	TAL NSH

Client Sample ID: LY-02

Date Collected: 05/03/18 09:45

Date Received: 05/03/18 10:00

Lab Sample ID: 480-135350-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10000	513680	05/09/18 18:02	AK1	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Accreditation/Certification Summary

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

TestAmerica Job ID: 480-135350-1

Laboratory: TestAmerica Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-18 *

Laboratory: TestAmerica Nashville

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
A2LA	A2LA		NA: NELAP & A2LA	12-31-19
A2LA	ISO/IEC 17025		0453.07	12-31-19
Alaska (UST)	State Program	10	UST-087	06-30-18
Arizona	State Program	9	AZ0473	05-05-19
Arkansas DEQ	State Program	6	88-0737	04-25-19
California	State Program	9	2938	10-31-18
Connecticut	State Program	1	PH-0220	12-31-19
Florida	NELAP	4	E87358	06-30-18
Georgia	State Program	4	E87358(FL)/453.07(A2L A)	06-30-18
Illinois	NELAP	5	200010	12-09-18
Iowa	State Program	7	131	04-01-18 *
Kansas	NELAP	7	E-10229	10-31-18
Kentucky (UST)	State Program	4	19	06-30-18
Kentucky (WW)	State Program	4	90038	12-31-18
Louisiana	NELAP	6	30613	06-30-18
Maine	State Program	1	TN00032	11-03-19
Maryland	State Program	3	316	03-31-19
Massachusetts	State Program	1	M-TN032	06-30-18
Minnesota	NELAP	5	047-999-345	12-31-18
Mississippi	State Program	4	N/A	06-30-18
Montana (UST)	State Program	8	NA	02-24-20
Nevada	State Program	9	TN00032	07-31-18
New Hampshire	NELAP	1	2963	10-09-18
New Jersey	NELAP	2	TN965	06-30-18
New York	NELAP	2	11342	03-31-19
North Carolina (WW/SW)	State Program	4	387	12-31-18
North Dakota	State Program	8	R-146	06-30-18
Ohio VAP	State Program	5	CL0033	07-06-19
Oklahoma	State Program	6	9412	08-31-18
Oregon	NELAP	10	TN200001	04-26-19
Pennsylvania	NELAP	3	68-00585	06-30-18
Rhode Island	State Program	1	LAO00268	12-30-18
South Carolina	State Program	4	84009 (001)	02-28-18 *
Tennessee	State Program	4	2008	02-23-20
Texas	NELAP	6	T104704077	08-31-18
USDA	Federal		P330-13-00306	12-01-19
Utah	NELAP	8	TN00032	07-31-18
Virginia	NELAP	3	460152	06-14-18
Washington	State Program	10	C789	07-19-18
West Virginia DEP	State Program	3	219	02-28-19
Wisconsin	State Program	5	998020430	08-31-18
Wyoming (UST)	A2LA	8	453.07	12-31-19

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Buffalo

Method Summary

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

TestAmerica Job ID: 480-135350-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL NSH
5030C	Purge and Trap	SW846	TAL NSH

Protocol References:

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

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

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Sample Summary

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

TestAmerica Job ID: 480-135350-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-135350-1	Trip Blank	Water	05/03/18 07:45	05/03/18 10:00
480-135350-2	FB-MW-04	Water	05/03/18 08:15	05/03/18 10:00
480-135350-3	MW-04	Water	05/03/18 09:30	05/03/18 10:00
480-135350-4	MW-04DUP	Water	05/03/18 09:30	05/03/18 10:00
480-135350-5	LY-02	Water	05/03/18 09:45	05/03/18 10:00

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Client Contact		Regulatory Program:		Project Manager:		Site Contact:		Lab Contact:		Carrier:		COC No.:	
Company Name: <u>Western Solutions</u>		<input type="checkbox"/> DW <input type="checkbox"/> NPDES <input type="checkbox"/> RCRA <input type="checkbox"/> Other:		Tom Drew		Greg Fleuski		Tudy Sture		Delivered		480-135950 COC	
Address: <u>1410 Western Way</u>		Analysis Turnaround Time		610.701.3677		Date: <u>HAUP</u>		Date: <u>HAUP</u>		Date: <u>HAUP</u>		Date: <u>HAUP</u>	
City/State/Zip: <u>W. Chester PA 19380</u>		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS		TAT if different from Below		Date: <u>HAUP</u>		Date: <u>HAUP</u>		Date: <u>HAUP</u>		Date: <u>HAUP</u>	
Phone: <u>610.721.0583</u>		2 weeks <input type="checkbox"/>		1 week <input type="checkbox"/>		Date: <u>HAUP</u>		Date: <u>HAUP</u>		Date: <u>HAUP</u>		Date: <u>HAUP</u>	
Fax: <u>610.721.0583</u>		2 days <input type="checkbox"/>		1 day <input type="checkbox"/>		Date: <u>HAUP</u>		Date: <u>HAUP</u>		Date: <u>HAUP</u>		Date: <u>HAUP</u>	
Project Name: <u>3M Towards</u>		Sample Date		Sample Time		Sample Type (C=Comp, G=Grab)		Matrix		# of Cont.		Sample Specific Notes:	
Site: <u>Towanda, NY</u>		5/3/18		745		G		W		1		CS ₂ Only	
PO#				815						3		5ppb	
				930						3		Detecting	
				930						3		Limit	
				945						3			
<p>Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other</p> <p>Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.</p> <p><input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown</p> <p>Special Instructions/QC Requirements & Comments:</p>													
Custody Seal No.:		Company:		Date/Time:		Company:		Date/Time:		Company:		Date/Time:	
Relinquished by: <u>[Signature]</u>		Western		5/3/18 1008		[Signature]		[Signature]		37		5/3/18 1008	
Relinquished by:		Company:		Date/Time:		Company:		Date/Time:		Company:		Date/Time:	
Relinquished by:		Company:		Date/Time:		Company:		Date/Time:		Company:		Date/Time:	



Login Sample Receipt Checklist

Client: Weston Solutions, Inc.

Job Number: 480-135350-1

Login Number: 135350

List Source: TestAmerica Buffalo

List Number: 1

Creator: Wallace, Cameron

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 (Excluding tests with immediate HTs)..	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.	True	
Chlorine Residual checked.	N/A	