

October 29, 2013

Mr. Stanley Radon  
Senior Engineering Geologist  
Division of Solid and Hazardous Waste  
NYSDEC, Region 9  
270 Michigan Avenue  
Buffalo, NY 14203-2999

**Re:   *National Grid Dewey Avenue Service Center (Site #915144)***  
***2013 Annual Groundwater Monitoring Report***

Dear Stan:

Enclosed for your review is the 2013 Annual Groundwater Monitoring Report for National Grid Dewey Avenue Service Center Site in Buffalo, New York. It includes the April 2013 and October 2013 sampling results. Please note that during the October 8, 2013 sampling event, there was a relatively low PCB detection (0.1 ug/L; NYSDEC GA Value is 0.09 ug/L; Aroclor 1242) at MW-11 which is a property boundary well. This is the second detection (2008) at MW-11. There were no PCB detections at MW-24 (located below Kingsley Ave.) in April and October 2013 events. The first slight PCB detection at MW-24 was during the October 2012 event. Both these perimeter wells will be monitored closely.

The next groundwater monitoring event will be conducted in April 2014. We will contact you at least one week in advance. If you have any questions, please feel free to contact me at 315.428.5652.

Sincerely,

 for SPS

Steven P. Stucker, C.P.G.  
Lead Environmental Engineer

ecc:   Kelly Lewandowski - NYSDEC  
      Lisa Montesano – NG  
      Matt Millias – CDM Smith  
      Tim Beaumont – CDM Smith



**Dewey Avenue Service Center  
2013 Annual Groundwater Monitoring Report**



Prepared by:  
**CDM Smith**  
1 General Motors Drive  
Syracuse, NY 13212

# Contents

<b>Section 1</b>	<b>Introduction</b>	
1.1	Introduction.....	1-1
1.2	Background and Site Investigation History.....	1-1
1.3	Modifications to the Groundwater Monitoring Program.....	1-3
<b>Section 2</b>	<b>2013 Groundwater Monitoring Activities</b>	
2.1	Groundwater Well Gauging .....	2-1
2.2	Groundwater Analytical Results .....	2-1
2.3	LNAPL Observation.....	2-1
2.4	Other OM&M Activities .....	2-1
<b>Section 3</b>	<b>Schedule</b>	
3.1	Schedule.....	3-1
<b>Section 4</b>	<b>Conclusions &amp; Recommendations</b>	
4.1	Conclusions .....	4-1
4.2	Recommendations .....	4-1

## Tables

Table 1 – Groundwater Elevations

Table 2 – Groundwater Analytical Results – Total PCB's

## Figures

Figure 1 – Site Location Map

Figure 2 – Site Map

Figure 3 – Groundwater Flow Map

## Appendices

Appendix A – Groundwater Monitoring Field Data

Appendix B – Groundwater Monitoring Laboratory Data

# Section 1

## Introduction

### 1.1 Introduction

This annual report presents the results of the groundwater sampling and analysis activities conducted by CDM Smith at the National Grid, Dewey Avenue Service Center in Buffalo, New York (the site). These activities were completed as part of ongoing investigations of a former underground storage tank (UST), identified as Solid Waste Management Unit (SWMU) #7. The April 2013 and October 2013 groundwater monitoring events were conducted in conformance with the Order on Consent (Consent Order) Index Number R9-4407-96-09, dated November 19, 1997, between National Grid and the New York State Department of Environmental Conservation (NYSDEC) to monitor the potential migration of impacted groundwater associated with SWMU #7. As further discussed in Section 1.3, the SWMU #7 groundwater monitoring program was modified as identified in the NYSDEC's July 22, 2003 letter that presented comments on the 2002 *Soil Investigation and Spring/Fall 2002 Groundwater Monitoring Report*.

### 1.2 Background and Site Investigation History

The Dewey Avenue Service Center is an active facility located at 144 Kensington Avenue between Dewey and Kensington Avenues in Buffalo, New York (Figure 1). The service center previously included a hazardous waste management facility permitted by the NYSDEC (Part 373 Permit No. 9-1402-00397/00001-0). The hazardous waste management facility was closed in December 1992 in accordance with a NYSDEC-approved closure plan.

In September 1992, excavation activities at the facility, in the vicinity of Building #13, revealed petroleum-impacted gravel and a broken vent line connected to an underground waste oil tank. The former waste oil tank was removed and four groundwater monitoring wells (ESI-1, ESI-2, ESI-3, and ESI-4) were installed in the vicinity of the former tank to supplement an existing monitoring well (MW-1) and to facilitate periodic groundwater monitoring in this area. Figure 2 illustrates relevant site features, and the locations of soil borings and monitoring wells.

In February 1994, National Grid agreed to conduct a focused Resource Conservation and Recovery Act (RCRA) Facility Assessment- (RFA-) type soil and groundwater investigation, and a Focused Risk Assessment/ Corrective Measures Study (FRA/CMS) to address the concerns identified by the RFA.

During fall 1994, National Grid conducted soil and groundwater investigation activities in accordance with the NYSDEC-approved *Soil and Groundwater Investigation Work Plan* (1994). These investigations showed the presence of several volatile organic compounds (VOC's) and polychlorinated biphenyls (PCB's) in groundwater at concentrations above the NYSDEC Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1 – *Ambient Water Quality Standards and Guidance Values*

(NYSDEC, 1998, amended 2000). Based on these results, the NYSDEC requested implementation of the quarterly groundwater monitoring program proposed in the *SWMU #7 Soil/Groundwater Investigation Report (1994)*.

The *SWMU #7 Focused Risk Assessment and Corrective Measures Study Report (FRA/CMS Report) (1995, revised 1996)* concluded that the limited action alternative (i.e., implementing a groundwater monitoring program) would adequately meet the corrective measure objective of mitigating the offsite migration of impacted groundwater. Following the initial submittal of the FRA/CMS Report, a *Groundwater Sampling and Analysis Plan (SAP) (1996)* was submitted to the NYSDEC in May 1996. The May 1996 SAP was then revised based upon NYSDEC comments, and the revised SAP for the groundwater monitoring program was presented in the revised FRA/CMS Report dated June 1996.

In November 1997, National Grid entered into a Consent Order with the NYSDEC to guide future site monitoring and to establish a framework for implementing additional site investigation or remediation. As mandated in the Consent Order, semiannual (spring and fall) groundwater monitoring events are conducted at SWMU #7 monitoring wells. The list of wells sampled during each groundwater monitoring event has been modified through time in response to NYSDEC requirements and the results of investigation/evaluation activities, as agreed to by the NYSDEC.

The Consent Order specifies that a contingency plan must be implemented to evaluate additional remedial activities if analytical results from monitoring wells located at the property boundary indicate an exceedance of the NYSDEC groundwater quality standards presented in TOGS 1.1.1 for two consecutive monitoring events. The monitoring wells designated as property boundary wells have changed, as new monitoring wells have been installed as part of the contingency plan implementation. For example, monitoring wells MW-7 and MW-9 were designated as property boundary wells in the Consent Order. In 1999, the property boundary wells included monitoring wells MW-6, MW-7, MW-11, MW-12, and MW-14. The current property boundary well arrangement includes monitoring wells MW-6, MW-11, MW-12, MW-20, MW-21, and MW-24 (installed spring 2002). Refer to Figure 2 for well locations. Monitoring well construction details are summarized in Table 1.

The following table summarizes instances when two consecutive groundwater sampling events exhibited the presence of constituents in groundwater above TOGS standards and guidance values in the property boundary wells. In addition, it presents the corresponding NYSDEC-approved contingency plan activity that was conducted in response to such instances.

Consecutive Sampling Events with Property Boundary Well TOGS Standards and Guidance Value Excedances	Corresponding Contingency Plan Activity
Fall 1997 and spring 1998: PCBs in monitoring well MW-9.	Conducted MW-9 supplemental investigation, including installing additional monitoring wells MW-13, MW-14, and MW-15 in October 1998.
Spring 1999 and fall 1999: PCBs in monitoring wells MW-9 and MW-14.	Conducted supplemental site investigation, including research of site history and installing additional monitoring wells MW-16, MW-17, MW-18, MW-19, MW-20, and MW-21 in August and September 2000.
Fall 2000 and spring 2001; PCBs in monitoring wells MW-9 and MW-14.	Conducted 2002 soil investigation, including installing soil borings (SB-101, MW-22, SB-102, SB-103, SB-104, SB-105, SB-106, MW-23, and SB-107), installing monitoring wells (MW-22, MW-23, and MW-24) and sampling and fingerprint analysis of light nonaqueous phase liquid (LNAPL) in monitoring well ESI-1.

Per NYSDEC's July 27, 2011 letter to NG, semi-annual groundwater sampling events will continue. However, both monitoring events will be documented in an annual report (submitted in the Fall of each year).

On October 3, 2011, National Grid received official notification that the Site was deleted from the New York State Registry of Inactive Hazardous Waste Disposal Sites (letter from Ms. Kelly Lewandowski, NYSDEC Chief Site Control Section to Mr. Chuck Willard, NG SIR Director).

### 1.3 Modifications to the Groundwater Monitoring Program

In the 2002 Report, modifications to the SWMU #7 groundwater monitoring program were recommended. The recommendations were based on the results of the 2002 soil investigation, the 2002 groundwater monitoring events, a review of previous soil and groundwater results, and LNAPL fingerprinting. The NYSDEC approved the recommendations presented in the 2002 Report (with select modifications) in a July 22, 2003 letter to National Grid. The recommendations, incorporating the NYSDEC's modifications, include:

- Discontinue VOC analysis except at monitoring wells ESI-1 and MW-16. LNAPL (if present) in monitoring well ESI-1 will be removed. If LNAPL is not present for three consecutive monitoring events in monitoring well ESI-1, groundwater will be sampled and analyzed for VOC's annually. To monitor the conditions downgradient of monitoring well ESI-1, groundwater from monitoring well MW-16 will be sampled and analyzed for VOC's annually. If VOC's are detected in groundwater at MW-16, additional VOC analysis will be required from monitoring wells located downgradient of MW-16.
- Discontinue lead analysis for all monitoring wells.

- Continue PCB analysis at select monitoring wells (i.e., the property boundary wells, MW-1, and MW-9).
- Discontinue data validation (for all groundwater samples collected) for every groundwater monitoring event.
- Continue to sample and measure groundwater levels from the monitoring wells, as summarized in Section 3 - Schedule.

Per NYSDEC's July 27, 2011 letter to NG, semi-annual groundwater sampling events will continue. However, both monitoring events will be documented in an annual report (submitted in the Fall of each year).



## Section 2

# Groundwater Monitoring Activities

### 2.1 Groundwater Well Gauging

For the April 2013 and October 2013 events, static groundwater levels (presented in Table 1) were measured prior to groundwater sample collection to evaluate groundwater flow patterns. Groundwater levels were obtained from 18 of the groundwater monitoring wells associated with SWMU #7 (MW-1, MW-2, MW-5, MW-6, MW-7, MW-9, MW-10, MW-11, MW-12, MW-13, MW-15, MW-16, MW-17, MW-19, MW-20, MW-21, MW-24, and ESI-1).

The groundwater flow direction is generally toward the south. Refer to Figure 3 for the general groundwater flow direction.

### 2.2 Groundwater Analytical Results

For the April 2013 and October 2013 events, groundwater samples were analyzed for PCBs. In addition, field measurements of pH, temperature, conductivity, DO, turbidity, and ORP were obtained prior to sample collection. The groundwater monitoring field data is included in Appendix A.

Eight monitoring wells were sampled and analyzed for PCBs during the April 2013 and October 2013 events (MW-1, MW-6, MW-9, MW-11, MW-12, MW-20, MW-21 and MW-24). Analytical results were compared to the New York State ambient water quality standards and guidance values and groundwater effluent limitations presented in TOGS 1.1.1 (0.09 ppb for total PCBs).

For the April 2013 sampling event, PCBs were detected in two of the eight site groundwater monitoring wells (5.7 ppb in MW-1 and 24 ppb in MW-9). For the October 2013 sampling event, PCBs were detected in three of the eight site wells (0.15 ppb in MW-1, 16 ppb in MW-9, and 0.10 ppb in MW-11).

Total PCB results of the groundwater monitoring events are presented in Table 2. Appendix B presents the analytical laboratory summary reports.

### 2.3 LNAPL Observation

Prior to groundwater purging and sample collection activities, each monitoring well was observed for the presence or absence of LNAPL using an oil/water interface probe. LNAPL was not observed at any of the monitoring wells during the April 2013 or October 2013 events.

### 2.4 Other OM&M Activities

- The sorbent boom was checked at monitoring well ESI-1.



## Section 3

# Schedule

### 3.1 Schedule

Based on the results of the groundwater monitoring program and the recommendations presented in the 2002 Report (subsequently modified by the NYSDEC's July 22, 2003 response letter), the modified groundwater monitoring program, consisting of semiannual (spring and fall) groundwater monitoring events will be continued. The scope of the monitoring program is summarized in the following table.

Monitoring Wells for Continued Groundwater Sampling	Monitoring Wells for Groundwater Level Measurement Only
ESI-1 (VOC analysis)*	MW-2****
MW-1 (PCB analysis) ***	MW-5
MW-6 (PCB analysis) ***	MW-17
MW-9 (PCB analysis) ***	MW-10
MW-11 (PCB analysis) ***	MW-13
MW-12 (PCB analysis) ***	MW-15
MW-16 (VOC analysis)**	MW-17
MW-20 (PCB analysis) ***	MW-19
MW-21 (PCB analysis) ***	
MW-24 (PCB analysis) ***	

**Notes:**

- \* One groundwater sample will be collected from monitoring well ESI-1 only if LNAPL is not present for three consecutive sampling events.
- \*\* One groundwater sample will be collected from monitoring well MW-16 annually during the Fall 2006 sampling event.
- \*\*\* Monitoring well will be sampled twice a year.
- \*\*\*\* MW-2 was uncovered in April 2010. Groundwater levels will continue.

The next semi-annual groundwater monitoring event is scheduled for April 2014. The NYSDEC Project Manager will be notified at least one week in advance of the event. Reporting will be annual (submitted after the Fall event).

## **Section 4**

### **Conclusions & Recommendations**

#### **4.1 Conclusions**

Eight monitoring wells were sampled and analyzed for PCBs during the April 2013 and October 2013 events (MW-1, MW-6, MW-9, MW-11, MW-12, MW-20, MW-21 and MW-24). For the April 2013 sampling event, PCBs were detected in two of the eight site groundwater monitoring wells (MW-1 and MW-9). For the October 2013 sampling event, PCBs were detected in three of the eight site wells (MW-1, MW-9, and MW-11).

#### **4.2 Recommendations**

At this time, no changes to the semi-annual site sampling plan are proposed.

# Tables

**Table 1**  
**Groundwater Elevations**

National Grid  
Dewey Avenue Service Center  
Buffalo, New York

Well ID	TOC Elevation (ft AMSL)	Depth to Well Bottom (ft BTOC)	Well Bottom Elev. (ft AMSL)	April 2011 DTW (ft BTOC)	April 2011 Potentiometric Surface Elev. (ft AMSL)	October 2011 DTW (ft BTOC)	October 2011 Potentiometric Surface Elev. (ft AMSL)	April 2012 DTW (ft BTOC)	April 2012 Potentiometric Surface Elev. (ft AMSL)	October 2012 DTW (ft BTOC)	October 2012 Potentiometric Surface Elev. (ft AMSL)	April 2013 DTW (ft BTOC)	April 2013 Potentiometric Surface Elev. (ft AMSL)	October 2013 DTW (ft BTOC)	October 2013 Potentiometric Surface Elev. (ft AMSL)
MW-1	650.76	29.90	620.86	2.85	647.91	3.07	647.69	3.41	647.35	3.30	647.46	3.02	647.74	3.23	647.53
MW-2	650.55	44.17	606.38	*	*	15.26	635.29	12.75	637.80	12.20	638.35	11.62	638.93	11.42	639.13
MW-5	651.65	21.40	630.25	10.68	640.97	11.55	640.10	11.72	639.93	11.25	640.40	10.89	640.76	11.58	640.07
MW-6	650.25	21.05	629.20	6.90	643.35	10.20	640.05	10.10	640.15	9.90	640.35	7.58	642.67	8.25	642.00
MW-7	650.02	21.30	628.72	9.46	640.56	11.56	638.46	11.69	638.33	10.88	639.14	10.31	639.71	11.30	638.72
MW-9	648.95	22.05	626.90	9.70	639.25	10.76	638.19	11.02	637.93	10.58	638.37	10.07	638.88	10.00	638.95
MW-10	649.46	24.25	625.21	9.48	639.98	10.39	639.07	10.88	638.58	10.76	638.70	9.57	639.89	10.51	638.95
MW-11	647.11	20.22	626.89	7.80	639.31	8.76	638.35	8.98	638.13	8.14	638.97	8.12	638.99	8.25	638.86
MW-12	646.90	19.55	627.35	7.60	639.30	8.42	638.48	8.50	638.40	8.24	638.66	7.91	638.99	8.04	638.86
MW-13	650.05	26.25	623.80	10.66	639.39	11.65	638.40	11.95	638.10	11.50	638.55	11.05	639.00	11.31	638.74
MW-15	651.88	23.80	628.08	11.58	640.30	12.81	639.07	13.35	638.53	12.47	639.41	12.21	639.67	12.22	639.66
MW-16	651.72	20.36	631.36	6.45	645.27	5.40	646.32	6.65	645.07	6.50	645.22	5.75	645.97	4.82	646.90
MW-17	651.76	20.60	631.16	11.57	640.19	11.86	639.90	12.80	638.96	12.37	639.39	11.75	640.01	12.45	639.31
MW-19	651.69	24.00	627.69	11.08	640.61	12.82	638.87	13.27	638.42	12.63	639.06	12.26	639.43	12.52	639.17
MW-20	646.76	22.60	624.16	7.55	639.21	8.48	638.28	8.73	638.03	8.82	637.94	7.80	638.96	8.20	638.56
MW-21	646.70	21.85	624.85	7.65	639.05	8.35	638.35	8.80	637.90	8.34	638.36	7.80	638.90	8.20	638.50
MW-24	647.01	24.25	622.76	7.60	639.41	8.53	638.48	8.80	638.21	8.40	638.61	7.90	639.11	8.30	638.71
ESI-1	651.66	21.50	630.16	3.68	647.98	3.94	647.72	4.18	647.48	4.40	647.26	4.00	647.66	4.20	647.46

**Notes:**

TOC = Top of Well Casing

AMSL = Above Median Sea Level

DTW = Depth to Water

BTOC = Below Top of Casing

LNAPL observed in ESI-1 only. Number in parentheses present depth and elevation to NAPL.

\* = MW-2 is typically inaccessible due to staged equipment.

**Table 2**  
**Groundwater Analytical Results - Total PCBs (units in ppb or ug/l)**

**National Grid**  
**Dewey Avenue Service Center**  
**Buffalo, New York**

Date	NYSDEC Value <sup>(1)</sup>	Well ID							
		MW-1	MW-6	MW-9	MW-11	MW-12	MW-20	MW-21	MW-24
October 2013	0.09	<b>0.15</b>	ND	<b>16.0</b>	<b>0.10</b>	ND	ND	ND	ND
April 2013	0.09	<b>5.7</b>	ND	<b>24.0</b>	ND	ND	ND	ND	ND
October 2012	0.09	<b>4.5</b>	<b>0.16</b>	<b>11.0</b>	ND	ND	ND	ND	0.051
April 2012	0.09	<b>1.4</b>	ND	<b>29.0</b>	ND	ND	ND	ND	ND
October 2011	0.09	<b>4.9</b>	ND	<b>8.7</b>	ND	ND	ND	ND	ND
April 2011	0.09	<b>7.0</b>	ND	<b>28.0</b>	ND	ND	ND	ND	ND
October 2010	0.09	<b>4.1</b>	ND	<b>24.0</b>	ND	ND	ND	ND	ND
April 2010	0.09	<b>4.6</b>	ND	<b>19.0</b>	ND	ND	ND	ND	ND
October 2009	0.09	1.4 QSU	ND	15 QSU, D08	ND	ND	ND	ND	ND
April 2009	0.09	<b>4.8</b>	<b>1.1</b>	ND	ND	ND	ND	ND	ND
October 2008	0.09	<b>0.44</b>	ND	<b>13</b>	<b>0.44</b>	ND	ND	ND	ND
April 2008	0.09	<b>0.54</b>	ND	<b>4.5</b>	ND	0.01	ND	ND	ND
October 2007	0.09	<b>1.2</b>	ND	ND	ND	ND	ND	ND	ND
April 2007	0.09	<b>1.2</b>	ND	<b>9.9</b>	ND	ND	ND	ND	ND
November 2006	0.09	ND	ND	ND	ND	ND	ND	ND	ND
June 2006	0.09	<b>1.5</b>	ND	ND	ND	ND	ND	ND	ND
November 2005	0.09	<b>1.2</b>	ND	<b>17</b>	ND	ND	ND	ND	ND
April 2005	0.09	<b>1</b>	ND	<b>9.5</b>	ND	ND	ND	ND	ND
November 2004	0.09	1.7 P	ND	<b>15</b>	ND	ND	ND	ND	ND
March 2004	0.09	0.87 P	ND	32.3 P	ND	ND	ND	ND	ND
October 2003	0.09	<b>1.6</b>	ND	40.3 PJ	ND	ND	ND	ND	ND
December 2002	0.09	<b>1.2</b>	ND	<b>16</b>	ND	ND	ND	ND	ND
June 2002	0.09	3.2 J	ND	20 J	ND	ND	ND	ND	ND
October 2001	0.09	3.0 J	ND	29 JN	ND	ND	ND	ND	NS
April 2001	0.09	<b>3.4</b>	NS	<b>6.3</b>	ND	ND	ND	ND	NS
December 2000	0.09	2.9 JN	NS	21 JN	ND	ND	ND	ND	NS
June 2000	0.09	<b>2.9</b>	NS	10 J	ND	ND	NS	NS	NS
December 1999	0.09	3.0 J	NS	21 J	ND	ND	NS	NS	NS
July 1999	0.09	5.9 JN	NS	44 JN	ND	ND	NS	NS	NS
November 1998	0.09	<b>3.6</b>	NS	ND	ND	ND	NS	NS	NS
May 1998	0.09	<b>1.2</b>	NS	<b>6.7</b>	NS	NS	NS	NS	NS

**Notes:**

(1) NYSDEC Division of Water Technical and Operational Guidance Series (TOGS 1.1.1) "Ambient Water Quality Standards and Guidance Values and Ground Water Effluent Limitations," April 2000, Class GA Ground Water Standards and Guidance Values.

*Laboratory Qualifier Notes:*

J = Analyte was positively identified; however, the associated numerical value is an estimated concentration only.

JN = The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.

P = Greater than 25% difference for detected concentration between two GC columns.

QSU = Sulfur (EPA 3660) clean-up performed on extract.

D08 = Dilution required due to high concentration of target analyte(s).

ND = Not Detected above detection limit.

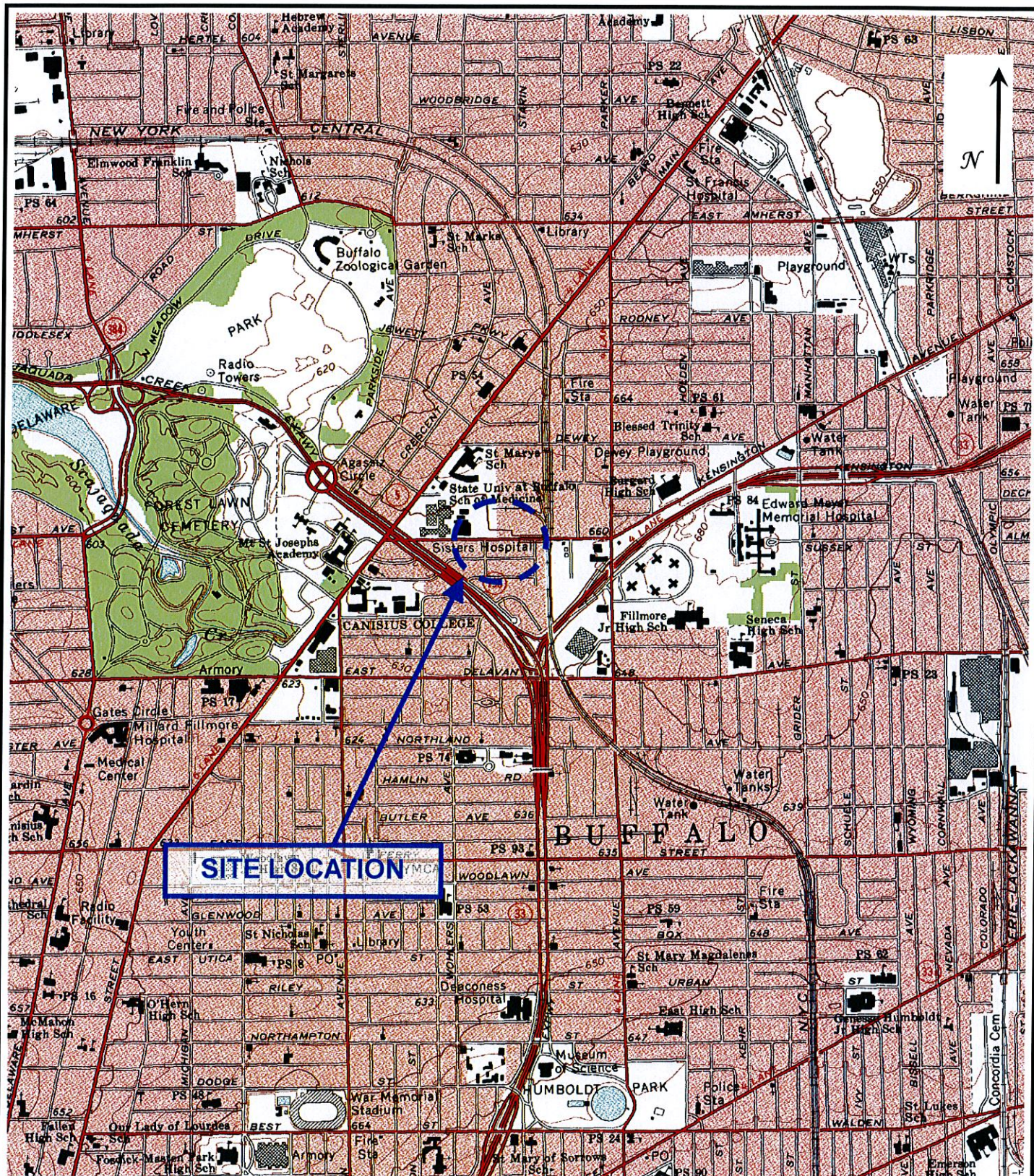
NS = Not Sampled.

Units in parts per billion (ppb) or ug/L.

Bolded numbers indicate Guidance Value Exceedences

Figures





Notes:

USGS Topo. Quad. Buffalo Northeast  
used to create base map.

0 1000 2000 3000 4000  
APPROXIMATE SCALE



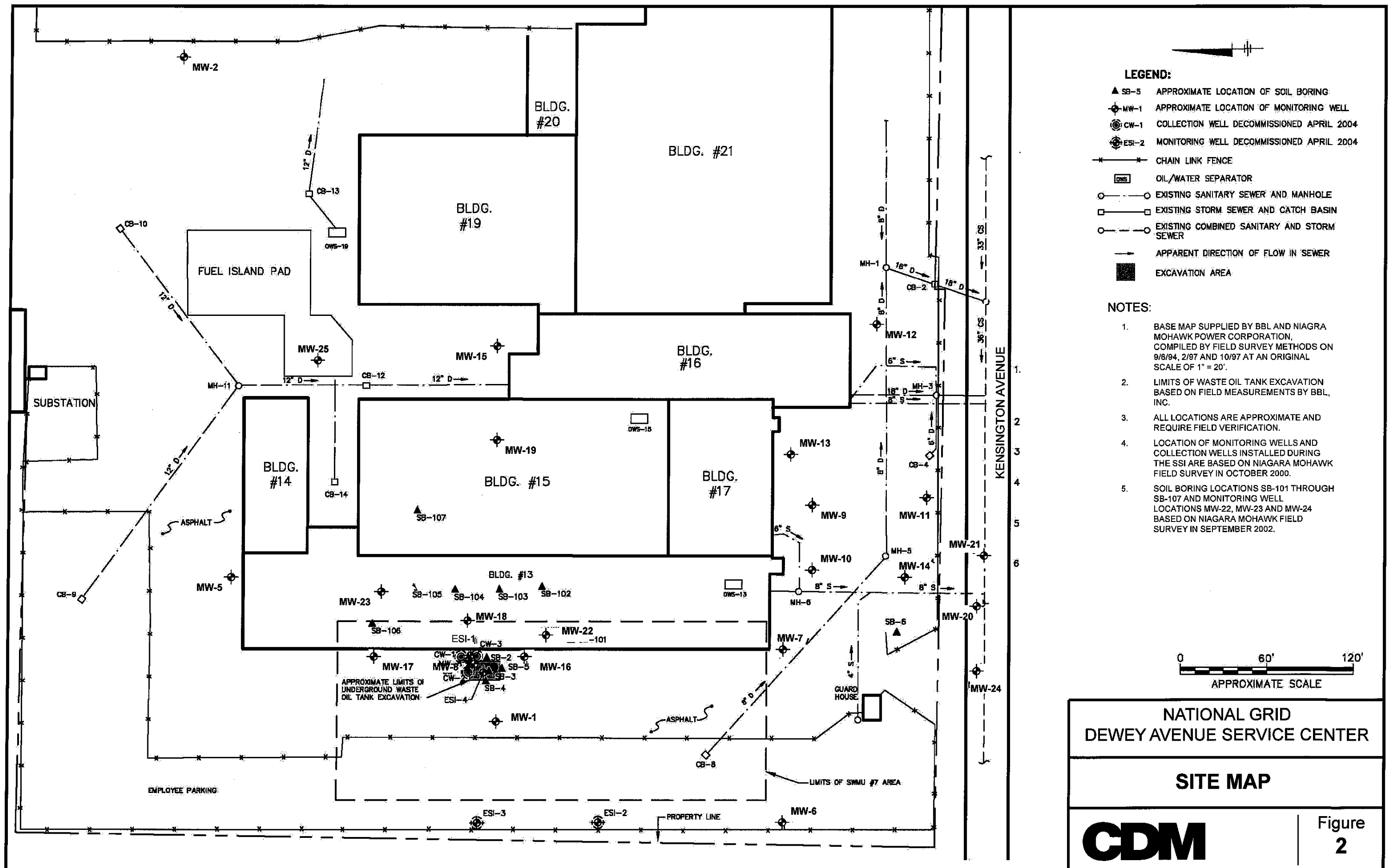
NATIONAL GRID  
DEWEY AVENUE SERVICE CENTER

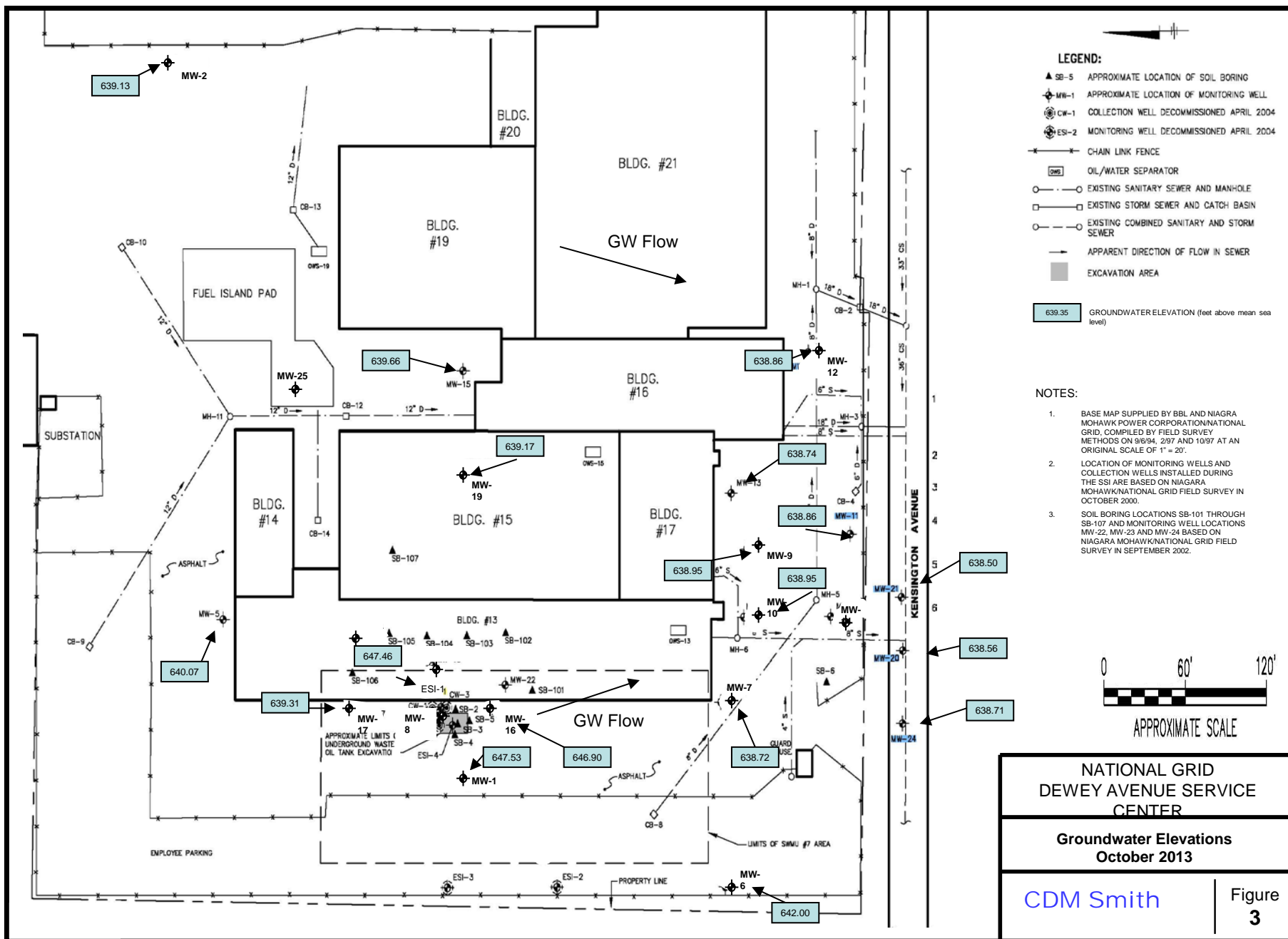
SITE LOCATION MAP

**CDM**

Figure  
1







# Appendix A

## Field Data

Well ID.	Sample?	Well Size	DTP	DTW	DTB	Comments
ESI-1	VOC's Fall only	4"	trace on boom	4.00	21.50	checked sorbant boom.
MW-1	yes	4"		3.02	29.90	
MW-2	no	4"		11.62	44.17	
MW-5	no	2"		10.89	21.40	
MW-6	yes	2"		7.58	21.05	
MW-7	no	2"		10.31	21.30	
MW-9	yes	2"		10.07	22.05	
MW-10	no	2"		9.57	24.25	
MW-11	yes	2"		8.12	20.22	
MW-12	yes	2"		7.91	19.55	
MW-13	no	2"		11.05	26.25	
MW-15	no	2"		12.21	23.80	
MW-16	VOC's Fall only	2"	trace on probe	5.75	20.36	
MW-17	no	2"		11.75	20.60	
MW-19	no	2"		12.26	24.00	
MW-20	yes	2"		7.8	22.60	
MW-21	yes	2"		7.80	21.85	
MW-24	yes	2"		7.90	24.25	
MW-25	no	2"		6.26	15.36	

## Chain of Custody Record

<b>Client Information</b>		Sampler: <b>Tim Beament</b>		Lab PM: <b>Gray-Erdmann, Peggy</b>		Carrier Tracking No(s):		COC No: <b>480-34362-8767.1</b>	
Client Contact: <b>Timothy Beaumont</b>		Phone: <b>585 734 2368</b>		E-Mail: <b>peggy.gray-erdmann@testamericainc.com</b>				Page: <b>Page 1 of 1</b>	
Company: <b>CDM Smith, Inc.</b>								Job #:	
Address: <b>One General Motors Drive</b>									
City: <b>Syracuse</b>									
State, Zip: <b>NY, 13206</b>									
Phone: <b>36380.93808</b>									
E-Mail: <b>beaumonttj@cdmsmith.com</b>									
Project Name: <b>CDM Smith/ Event Desc: Dewey Avenue GW Wells April</b>									
Site: <b>New York</b>									

Due Date Requested:		Analysis Requested	
TAT Requested (days):			
PO #:			
WO #:			
Project #:			
SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Solid, Composite, ET=Fluore, A=Alt)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082 LL - (MOD) Local Method	Total Number of Containers	Special Instructions/Note:
MW-1-0413	4/17/13	1205	6	Water					
MW-6-0413	4/17/13	730	6	Water					
MW-6 MS-0413	4/17/13	730	6	Water					
MW-6 SD-0413	4/17/13	730	6	Water					
MW-9-0413	4/17/13	1120	6	Water					
MW-11-0413	4/17/13	1055	6	Water					
MW-12-0413	4/17/13	1015	6	Water					
MW-20-0413	4/17/13	850	6	Water					
MW-21-0413	4/17/13	930	6	Water					
MW-24-0413	4/17/13	815	6	Water					
FD-0413	4/17/13	-	6	Water					

<b>Possible Hazard Identification</b> <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		<b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b> <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Deliverable Requested: I, II, III, IV, Other (specify)			
Empty Kit Relinquished by:		Method of Shipment:	
Relinquished by: <b>STB</b>		Date/Time: <b>4/17/13 14:25</b>	
Relinquished by:		Date/Time:	
Relinquished by:		Date/Time:	
Custody Seals Intact: <b>Yes</b> <input type="checkbox"/> <b>No</b> <input type="checkbox"/>		Custody Seal No.:	

Relinquished by: <b>Beaumonttj</b> Date/Time: <b>4/17/13 14:25</b> Company: <b>CDM Smith</b>		Relinquished by: <b>Gray-Erdmann</b> Date/Time: <b>4/17/13 14:25</b> Company: <b>TestAmerica</b>	
Relinquished by: <b>Gray-Erdmann</b> Date/Time: <b>4/17/13 14:25</b> Company: <b>TestAmerica</b>		Relinquished by: <b>Gray-Erdmann</b> Date/Time: <b>4/17/13 14:25</b> Company: <b>TestAmerica</b>	

Sampling Personnel: Tim Beaumont

Job Number: 36380.93808

Well Id. MW-1

Date: 4/17/13

Weather: Sunny 54°

Time In: 1135 Time Out:

### Well Information

	TOC	Other
Depth to Water: (feet)	3.02	
Depth to Bottom: (feet)	29.90	
Depth to Product: (feet)	—	
Length of Water Column: (feet)	26.88	
Volume of Water in Well: (gal)	17.74	
Three Well Volumes: (gal)	53.22	

Well Type: Flushmount ☒ Stick-Up ☐  
 Well Locked: Yes ☒ No ☐  
 Measuring Point Marked: Yes ☒ No ☐  
 Well Material: PVC ☐ SS ☐ Other: steel ☐  
 Well Diameter: 1" ☐ 2" ☐ Other: 4" ☐  
 Comments:

### Purging Information

Purging Method: ☐ Bailer ☒ Peristaltic ☐ Grundfos Pump ☐ other ☐  
 Tubing/Bailer Material: Teflon ☐ Stainless St. ☐ Polyethylene ☒ other ☐  
 Sampling Method: Bailer ☐ Peristaltic ☒ Grundfos Pump ☐ other ☐  
 Average Pumping Rate: (ml/min) 200  
 Duration of Pumping: (min) 30  
 Total Volume Removed: (gal) 200 Did well go dry? Yes ☐ No ☒  
 Horiba U-52 Water Quality Meter Used? Yes ☒ No ☐

Conversion Factors				
gal/ft. of water	1" ID	2" ID	4" ID	6" ID
	0.04	0.16	0.66	1.47
1 gallon=3.785L=3785mL=1337cu. feet				

Time	DTW (feet)	Amount purged (gal)	Temp °C	pH	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)
1135	3.10		14.90	7.48	-49	17.2	19.1	1.93
1140	3.12		13.26	7.45	-52	17.5	17.6	0
1145	3.12		12.95	7.43	-58	17.9	18.2	0
1150	3.12		12.86	7.44	-60	17.7	12.6	0
1155	3.12		12.50	7.46	-62	17.8	5.1	0
1200	3.12		12.74	7.45	-65	17.7	1.6	0
1205	3.12		12.72	7.48	-68	17.9	1.2	0

### Sampling Information:

EPA SW-846 Method 8082 PCB's Low detection limit of 0.05 ppb 2 - 1 liter amber Yes ☒ No ☐  
 EPA SW-846 Method 8260 TCL VOC's Including Naphthalene 2 - 40 mL vials Yes ☐ No ☒  
 Sample ID: MW-1-0413 Duplicate? Yes ☐ No ☒  
 Sample Time: 1205 MS/MSD? Yes ☐ No ☒  
 Shipped: Drop-off ☒ TA Courier ☐  
 Fed-Ex ☐ UPS ☐

Comments/Notes:

Laboratory: Test America  
Amherst, New York

Sampling Personnel: Tim Beaumont

Job Number: 36380.93808

Well Id. MW-6

Date: 4/17/13

Weather: Clear 38°

Time In: 650

Time Out: 740

### Well Information

		TOC	Other
Depth to Water:	(feet)	2.58	
Depth to Bottom:	(feet)	21.05	
Depth to Product:	(feet)	—	
Length of Water Column:	(feet)	13.47	
Volume of Water in Well:	(gal)	2.15	
Three Well Volumes:	(gal)	6.45	

Well Type: Flushmount ☒ Stick-Up ☐  
 Well Locked: Yes ☒ No ☐  
 Measuring Point Marked: Yes ☒ No ☐  
 Well Material: PVC ☒ SS ☐ Other: ☐  
 Well Diameter: 1" ☐ 2" ☒ Other: ☐  
 Comments:

### Purging Information

Purging Method: ☐ Bailer ☒ Peristaltic ☒ Grundfos Pump ☐ other ☐  
 Tubing/Bailer Material: Teflon ☐ Stainless St. ☒ Polyethylene ☒ other ☐  
 Sampling Method: Bailer ☐ Peristaltic ☒ Grundfos Pump ☐ other ☐  
 Average Pumping Rate: (ml/min) ~ 200  
 Duration of Pumping: (min) 30  
 Total Volume Removed: (gal) ~ 1.75  
 Did well go dry? Yes ☐ No ☒  
 Horiba U-52 Water Quality Meter Used? Yes ☒ No ☐

Conversion Factors				
gal/ft. of water	1" ID	2" ID	4" ID	6" ID
	0.04	0.16	0.66	1.47
1 gallon=3.785L=3785mL=1337cu. feet				

Time	DTW (feet)	Amount purged (gal)	Temp °C	pH	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)
700	7.98		12.92	6.46	66	11.0	96.2	1.12
705	8.00		12.06	6.87	-7	11.5	42.6	.62
710	8.00		11.35	7.16	-15	11.6	25.2	.43
715	8.00		10.40	7.19	-15	11.8	15.6	.40
720	8.00		10.45	7.20	-10	11.8	8.2	.29
725	8.00		10.52	7.19	-8	11.7	3.6	.12
730	8.00		10.61	7.20	-6	11.7	1.9	0

### Sampling Information:

EPA SW-846 Method 8082 PCB's Low detection limit of 0.05 ppb 6 - 1 liter amber Yes ☒ No ☐  
 EPA SW-846 Method 8260 TCL VOC's Including Naphthalene 2 - 40 mL vials Yes ☐ No ☒  
 Sample ID: MW-6-0413 Duplicate? Yes ☐ No ☒  
 Sample Time: 730 MS/MSD? Yes ☒ No ☐  
 Shipped: Drop-off ☒ TA Courier ☐  
 Fed-Ex ☐ UPS ☐

Comments/Notes: NO DATA NO SHEET

Laboratory: Test America  
Amherst, New York



Sampling Personnel: Tim Beaumont

Job Number: 36380.93808

Well Id. MW-9

Date: 4/17/13

Weather: Sunny SD

Time In: 1100

Time Out: 1135

### Well Information

		TOC	Other
Depth to Water:	(feet)	10.07	
Depth to Bottom:	(feet)	22.05	
Depth to Product:	(feet)	-	
Length of Water Column:	(feet)	11.98	
Volume of Water in Well:	(gal)	1.92	
Three Well Volumes:	(gal)	5.76	

Well Type: Flushmount ☒ Stick-Up ☐  
Well Locked: Yes ☒ No ☐  
Measuring Point Marked: Yes ☒ No ☐  
Well Material: PVC ☒ SS ☐ Other: ☐  
Well Diameter: 1" ☐ 2" ☒ Other: ☐  
Comments:

### Purging Information

Purging Method: ☐ Bailer ☒ Peristaltic ☒ Grundfos Pump ☐ other ☐  
Tubing/Bailer Material: Teflon ☐ Stainless St. ☒ Polyethylene ☒ other ☐  
Sampling Method: Bailer ☐ Peristaltic ☒ Grundfos Pump ☐ other ☐  
Average Pumping Rate: (ml/min) ~ 200 ↓  
Duration of Pumping: (min) 30  
Total Volume Removed: (gal) ~ 1.75  
Did well go dry? Yes ☐ No ☒  
Horiba U-52 Water Quality Meter Used? Yes ☒ No ☐

Conversion Factors				
gal/ft. of water	1" ID	2" ID	4" ID	6" ID
	0.04	0.16	0.66	1.47
1 gallon=3.785L=3785mL=1337cu. feet				

Time	DTW (feet)	Amount purged (gal)	Temp °C	pH	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)
1100	10.42		16.11	7.44	4	17.3	27.4	1.04
1105	10.70		16.06	7.57	-3	17.5	26.3	.76
1110	10.75		16.08	7.35	-5	17.5	17.5	.14
1115	10.82		15.95	7.38	-6	18.6	3.6	0
1120	10.91		15.94	7.40	-8	18.2	1.2	0
1125	10.99		15.90	7.41	-10	18.0	0	0
1130	11.04		15.87	7.42	-12	18.0	0	0

### Sampling Information:

EPA SW-846 Method 8082

PCB's

Low detection limit of 0.05 ppb

2 - 1 liter amber

Yes ☒ No ☐

EPA SW-846 Method 8260

TCL VOC's

Including Naphthalene

2 - 40 mL vials

Yes ☐ No ☒

Sample ID: MW-9-0413

Duplicate?

Yes ☐ No ☒

Shipped:

Drop-off ☒

TA Courier ☐

Sample Time: 1130

MS/MSD?

Yes ☐ No ☒

Fed-Ex ☐

UPS ☐

Comments/Notes:

no odor no skin

Laboratory:

Test America  
Amherst, New York

Amherst, New York

Sampling Personnel: Tim Beaumont

Job Number: 36380.93808

Well Id. MW-12

Date: 4/17/13

Weather: Sunny 50

Time In: 945 Time Out: 1025

### Well Information

		TOC	Other
Depth to Water:	(feet)	7.91	
Depth to Bottom:	(feet)	19.55	
Depth to Product:	(feet)	—	
Length of Water Column:	(feet)	11.64	
Volume of Water in Well:	(gal)	1.86	
Three Well Volumes:	(gal)	5.58	

Well Type: Flushmount ☒ Stick-Up ☐  
 Well Locked: Yes ☒ No ☐  
 Measuring Point Marked: Yes ☒ No ☐  
 Well Material: PVC ☒ SS ☐ Other: ☐  
 Well Diameter: 1" ☐ 2" ☒ Other: ☐  
 Comments:

### Purging Information

Purging Method: Bailer ☐ Peristaltic ☒ Grundfos Pump ☐ other ☐  
 Tubing/Bailer Material: Teflon ☐ Stainless St. ☐ Polyethylene ☒ other ☐  
 Sampling Method: Bailer ☐ Peristaltic ☒ Grundfos Pump ☐ other ☐  
 Average Pumping Rate: (ml/min) ~ 200  
 Duration of Pumping: (min) 30  
 Total Volume Removed: (gal) ~ 1.75 Did well go dry? Yes ☐ No ☒  
 Horiba U-52 Water Quality Meter Used? Yes ☒ No ☐

Conversion Factors				
gal/ft. of water	1" ID	2" ID	4" ID	6" ID
	0.04	0.16	0.66	1.47
1 gallon=3.785L=3785mL=133.7cu. feet				

Time	DTW (feet)	Amount purged (gal)	Temp °C	pH	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)
945	8.50		11.95	7.67	90	7.94	16.2	2.92
950	9.12		12.12	7.77	100	7.93	3.2	1.97
955	9.17		12.26	7.81	109	8.21	0	1.53
1000	9.20		12.45	7.81	112	8.40	0	1.30
1005	9.22		12.90	7.79	116	8.82	0	1.17
1010	9.25		12.98	7.78	117	9.10	0	.92
1015	9.28		13.03	7.79	120	9.13	0	.78

### Sampling Information:

EPA SW-846 Method 8082 PCB's Low detection limit of 0.05 ppb 4 - 1 liter amber Yes ☒ No ☐  
 EPA SW-846 Method 8260 TCL VOC's Including Naphthalene 2 - 40 mL vials Yes ☐ No ☒  
 Sample ID: MW-12-0413 Duplicate? Yes ☒ No ☐ FD-0413 Shipped: Drop-off ☒ TA Courier ☐  
 Sample Time: 1015 MS/MSD? Yes ☐ No ☒ Fed-Ex ☐ UPS ☐

Comments/Notes: no ODN no skew

Laboratory: Test America  
Amherst, New York

Sampling Personnel: Tim Beaumont

Job Number: 36380.93808

Well Id. MW-20

Date: 4/17/13

Weather: Sunny 58

Time In: 820

Time Out: 855

### Well Information

		TOC	Other
Depth to Water:	(feet)	7.80	
Depth to Bottom:	(feet)	22.60	
Depth to Product:	(feet)	—	
Length of Water Column:	(feet)	14.80	
Volume of Water in Well:	(gal)	2.37	
Three Well Volumes:	(gal)	7.11	

Well Type: Flushmount ☒ Stick-Up ☐  
 Well Locked: Yes ☒ No ☐  
 Measuring Point Marked: Yes ☒ No ☐  
 Well Material: PVC ☒ SS ☐ Other: ☐  
 Well Diameter: 1" ☐ 2" ☒ Other: ☐  
 Comments:

### Purging Information

Purging Method: ☐ Bailer ☐ Peristaltic ☒ Grundfos Pump ☐ other ☐  
 Tubing/Bailer Material: Teflon ☐ Stainless St. ☐ Polyethylene ☒ other ☐  
 Sampling Method: Bailer ☐ Peristaltic ☒ Grundfos Pump ☐ other ☐  
 Average Pumping Rate: (ml/min) ~ 200  
 Duration of Pumping: (min) 30  
 Total Volume Removed: (gal) ~ 1.75 Did well go dry? Yes ☐ No ☒  
 Horiba U-52 Water Quality Meter Used? Yes ☒ No ☐

Conversion Factors				
gal/ft. of water	1" ID	2" ID	4" ID	6" ID
	0.04	0.16	0.66	1.47
1 gallon=3.785L=3785mL=133.7cu. feet				

Time	DTW (feet)	Amount purged (gal)	Temp °C	pH	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)
820	7.88		9.92	6.91	44	0.04	98.9	11.31
825	7.85		10.23	7.48	-15	8.67	13.6	2.15
830	7.86		10.51	7.42	-28	8.79	4.4	.69
835	7.85		10.55	7.42	-35	8.75	1.6	.06
840	7.85		10.59	7.41	-40	8.70	.3	0
845	7.86		10.65	7.40	-38	8.69	0	0
850	7.86		10.68	7.40	-37	8.69	0	0

### Sampling Information:

EPA SW-846 Method 8082  
EPA SW-846 Method 8260

PCB's  
TCL VOC's

Low detection limit of 0.05 ppb  
Including Naphthalene

2 - 1 liter amber  
2 - 40 mL vials

Yes ☒ No ☐  
Yes ☐ No ☒

Sample ID: MW-20-0413  
Sample Time: 850

Duplicate? Yes ☐ No ☒  
MS/MSD? Yes ☐ No ☒

Shipped: Drop-off ☒ TA Courier ☐  
Fed-Ex ☐ UPS ☐

Comments/Notes: No Sheen before egg odor

Laboratory: Test America  
Amherst, New York

Sampling Personnel: Tim Beaumont

Job Number: 36380.93808

Well Id. MW-21

Date: 4/17/13

Weather: Sunny & D

Time In: 8:55

Time Out: 9:35

### Well Information

		TOC	Other
Depth to Water:	(feet)	7.80	
Depth to Bottom:	(feet)	21.85	
Depth to Product:	(feet)	—	
Length of Water Column:	(feet)	140.5	
Volume of Water in Well:	(gal)	2.25	
Three Well Volumes:	(gal)	6.75	

Well Type: Flushmount ☒ Stick-Up ☐  
 Well Locked: Yes ☒ No ☐  
 Measuring Point Marked: Yes ☒ No ☐  
 Well Material: PVC ☒ SS ☐ Other: ☐  
 Well Diameter: 1" ☐ 2" ☒ Other: ☐  
 Comments:

### Purging Information

Purging Method: ☐ Bailer ☒ Peristaltic ☐ Grundfos Pump ☐ other ☐  
 Tubing/Bailer Material: Teflon ☐ Stainless St. ☒ Polyethylene ☒ other ☐  
 Sampling Method: Bailer ☐ Peristaltic ☒ Grundfos Pump ☐ other ☐  
 Average Pumping Rate: (ml/min) 175  
 Duration of Pumping: (min) 30  
 Total Volume Removed: (gal) 11.75  
 Did well go dry? Yes ☐ No ☒

Conversion Factors				
gal/ft. of water	1" ID	2" ID	4" ID	6" ID
	0.04	0.16	0.66	1.47
1 gallon=3.785L=3785mL=133.7cu. feet				

Horiba U-52 Water Quality Meter Used? Yes ☒ No ☐

Time	DTW (feet)	Amount purged (gal)	Temp °C	pH	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)
9:00	8.65		9.77	7.57	-27	8.56	16.2	4.60
9:05	9.80		10.03	7.43	32	9.23	8.2	.55
9:10	10.05		10.12	7.41	44	9.24	1.2	.36
9:15	10.15		10.14	7.40	53	9.20	0	.24
9:20	10.19		10.15	7.40	56	9.13	0	.15
9:25	10.24		10.18	7.40	54	9.05	0	0
9:30	10.28		10.23	7.40	51	8.98	0	0

### Sampling Information:

EPA SW-846 Method 8082

PCB's

Low detection limit of 0.05 ppb

2 - 1 liter amber

Yes ☒ No ☐

EPA SW-846 Method 8260

TCL VOC's

Including Naphthalene

2 - 40 mL vials

Yes ☐ No ☒

Sample ID: MW-21-0413

Duplicate?

Yes ☐ No ☒

Shipped:

Drop-off ☒ TA Courier ☐

Sample Time: 9:30

MS/MSD?

Yes ☐ No ☒

Fed-Ex ☐ UPS ☐

Comments/Notes:

No show 10th day old

Laboratory:

Test America  
Amherst, New York

Sampling Personnel: Tim Beaumont

Job Number: 36380.93808

Well Id. MW-24

Date: 4/17/13

Weather: Sunny 49°

Time In: 745 Time Out: 820

### Well Information

		TOC	Other
Depth to Water:	(feet)	7.90	
Depth to Bottom:	(feet)	24.25	
Depth to Product:	(feet)	—	
Length of Water Column:	(feet)	16.35	
Volume of Water in Well:	(gal)	2.62	
Three Well Volumes:	(gal)	7.86	

Well Type: Flushmount ☒ Stick-Up ☐  
Well Locked: Yes ☒ No ☐  
Measuring Point Marked: Yes ☒ No ☐  
Well Material: PVC ☒ SS ☐ Other: ☐  
Well Diameter: 1" ☐ 2" ☒ Other: ☐  
Comments:

### Purging Information

Purging Method: ☐ Bailer ☒ Peristaltic ☐ Grundfos Pump ☐ other ☐  
Tubing/Bailer Material: Teflon ☐ Stainless St. ☒ Polyethylene ☒ other ☐  
Sampling Method: Bailer ☐ Peristaltic ☒ Grundfos Pump ☐ other ☐  
Average Pumping Rate: (ml/min) ~200  
Duration of Pumping: (min) 30  
Total Volume Removed: (gal) ~1.75  
Did well go dry? Yes ☐ No ☒  
Horiba U-52 Water Quality Meter Used? Yes ☒ No ☐

Conversion Factors				
gal/ft. of water	1" ID	2" ID	4" ID	6" ID
	0.04	0.16	0.66	1.47
1 gallon=3.785L=3785mL=1337cu. feet				

Time	DTW (feet)	Amount purged (gal)	Temp °C	pH	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)
745	7.95		10.10	7.33	35	10.0	26.2	2.43
750	7.98		10.26	7.30	30	11.0	12.6	1.65
755	7.98		10.40	7.28	28	10.0	5.2	.98
800	8.00		10.56	7.27	28	10.0	3.1	1.62
805	8.00		10.53	7.27	26	10.1	0	.27
810	8.00		10.50	7.27	23	10.0	0	0
815	8.00		10.47	7.27	20	10.0	0	0

### Sampling Information:

EPA SW-846 Method 8082 PCB's Low detection limit of 0.05 ppb 2 - 1 liter amber Yes ☒ No ☐  
EPA SW-846 Method 8260 TCL VOC's Including Naphthalene 2 - 40 mL vials Yes ☐ No ☒  
Sample ID: MW-24-0413 Duplicate? Yes ☐ No ☒  
Sample Time: 815 MS/MSD? Yes ☐ No ☒  
Shipped: Drop-off ☒ TA Courier ☐  
Fed-Ex ☐ UPS ☐

Comments/Notes: no show taken eqs on

Laboratory: Test America  
Amherst, New York

National Grid  
Dewey Avenue Service Center  
144 Kensington Avenue  
Buffalo, New York

Fall Semi-Annual Event  
October 8-9, 2013

Well ID.	Sample?	Well Size	DTP	DTW	DTB	Comments
ESI-1	VOC's Fall only	4"	trace on boom	4.20	21.50	checked sorbant boom.
MW-1	yes	4"		3.23	29.90	
MW-2	no	4"		11.42	44.17	
MW-5	no	2"		11.58	21.40	
MW-6	yes	2"		8.25	21.05	
MW-7	no	2"		11.30	21.30	
MW-9	yes	2"		10.00	22.05	
MW-10	no	2"		10.51	24.25	
MW-11	yes	2"		8.25	20.22	
MW-12	yes	2"		8.04	19.55	
MW-13	no	2"		11.31	26.25	
MW-15	no	2"		12.22	23.80	
MW-16	VOC's Fall only	2"	trace on probe	4.82	20.36	
MW-17	no	2"		12.45	20.60	
MW-19	no	2"		12.52	24.00	
MW-20	yes	2"		8.20	22.60	
MW-21	yes	2"		8.20	21.85	
MW-24	yes	2"		8.30	24.25	
MW-25	no	2"		5.25	15.36	



**Chain of Custody Record**

<b>Client Information</b>		Sampler: <b>Tim Beaumont</b>		Lab P/N: <b>Gray-Erdmann, Peggy J</b>		Carrier Tracking No(s):		COC No: <b>480-39682-7262.1</b>	
Client Contact: <b>Timothy Beaumont</b>		Phone: <b>585 739 2368</b>		E-Mail: <b>peggy.gray-erdmann@testamericainc.com</b>		Page: <b>Page 1 of 1</b>		Job #:	
Company: <b>CDM Smith, Inc.</b>									
Address: <b>One General Motors Drive</b>									
City: <b>Syracuse</b>									
State, Zip: <b>NY, 13206</b>									
Phone:									
Email: <b>beaumonttj@cdmsmith.com</b>									
Project Name: <b>CDM Smith / CDM Event Desc: Dewey Avenue GW Wells Oct</b>									
Site: <b>New York</b>									

Due Date Requested:		TAT Requested (days):		PO #:		WO #:		Project #:		SSOW#:	
				36380.99758				48002647			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Inorganic, Organic, Pesticide, BT-toxin, A=alt)	Field Filtered Sample (Yes or No)	8062.LL - (MOD) Local Method	Analysis Requested										Total Number of Containers	Special Instructions/Note:	
							Preservation Codes:												
FD-1013	10/8/13	-	G	Water															
MW-1-1013	10/8/13	1015	G	Water															
MW-5-1013	10/8/13	1100	G	Water															
MW-6-1013 MS	10/8/13	1100	G	Water															
MW-6-1013 SD	10/8/13	1100	G	Water															
MW-9-1013	10/8/13	930	G	Water															
MW-11-1013	10/8/13	850	G	Water															
MW-12-1013	10/8/13	800	G	Water															
MW-20-1013	10/8/13	855	G	Water															
MW-21-1013	10/9/13	930	G	Water															
MW-24-1013	10/9/13	915	G	Water															

**Possible Hazard Identification**  
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological  
 Deliverable Requested: I, II, III ☒ Other (specify)

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

**Special Instructions/OC Requirements:**

Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by: <b>THA 1228</b>		Date: <b>10/9/13</b>		Time: <b>1230</b>		Company: <b>can suit</b>	
Relinquished by:		Date:		Time:		Company:	
Relinquished by:		Date:		Time:		Company:	
Relinquished by:		Date:		Time:		Company:	
Custody Seal No:		Custody Seal No:		Custody Seal No:		Custody Seal No:	

Sampling Personnel: Tim Beaumont

Job Number: 36380.99758

Well Id. MW-1

Date: 10/8/13

Weather: Sunny

Time In: 940

Time Out: 1020

### Well Information

		TOC	Other
Depth to Water:	(feet)	3.23	
Depth to Bottom:	(feet)	29.90	
Depth to Product:	(feet)	—	
Length of Water Column:	(feet)	26.67	
Volume of Water in Well:	(gal)	17.60	
Three Well Volumes:	(gal)	52.80	

Well Type: Flushmount ☒ Stick-Up ☐  
Well Locked: Yes ☒ No ☐  
Measuring Point Marked: Yes ☒ No ☐  
Well Material: PVC ☐ SS ☐ Other: steel  
Well Diameter: 1" ☐ 2" ☐ Other: 4"  
Comments:

### Purging Information

Purging Method: ☐ Bailer ☒ Peristaltic ☐ Grundfos Pump ☐ other ☐  
Tubing/Bailer Material: Teflon ☐ Stainless St. ☐ Polyethylene ☒ other ☐  
Sampling Method: Bailer ☐ Peristaltic ☒ Grundfos Pump ☐ other ☐  
Average Pumping Rate: (ml/min) ~ 20.0  
Duration of Pumping: (min) 30  
Total Volume Removed: (gal) ~ 2.0  
Did well go dry? Yes ☐ No ☒  
Horiba U-52 Water Quality Meter Used? Yes ☒ No ☐

Conversion Factors				
gal/ft. of water	1" ID	2" ID	4" ID	6" ID
	0.04	0.16	0.66	1.47
1 gallon=3.785L=3785mL=1337cu. feet				

Time	DTW (feet)	Amount purged (gal)	Temp °C	pH	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)
945	3.20		20.88	8.62	-185	1.22	20.1	1.30
950	3.22		20.87	8.80	-181	1.58	18.6	0
955	3.22		21.05	9.08	-189	5.16	18.8	0
1000	3.22		21.05	7.63	-104	8.97	12.1	0
1005	3.22		21.07	7.61	-106	9.00	1.2	0
1010	3.24		21.10	7.60	-97	9.07	0	0
1015	3.24		21.12	7.60	-93	9.09	0	0

### Sampling Information:

EPA SW-846 Method 8082  
EPA SW-846 Method 8260

PCB's  
TCL VOC's

Low detection limit of 0.05 ppb  
Including Naphthalene

2 - 1 liter amber  
2 - 40 mL vials

Yes ☒ No ☐  
Yes ☐ No ☒

Sample ID: MW-1-1013  
Sample Time: 1015

Duplicate? Yes ☐ No ☒  
MS/MSD? Yes ☐ No ☒

Shipped: Drop-off ☒ TA Courier ☐  
Fed-Ex ☐ UPS ☐

Comments/Notes: slight odor no show

Laboratory: Test America  
Amherst, New York

Sampling Personnel: Tim Beaumont

Job Number: 36380.99758

Well Id. MW-6

Date: 10/8/13

Weather: Sunny 56°

Time In: 1030 Time Out: 1115

### Well Information

		TOC <input checked="" type="checkbox"/>	Other
Depth to Water:	(feet)	10.25	8.25
Depth to Bottom:	(feet)	21.05	
Depth to Product:	(feet)	—	
Length of Water Column:	(feet)	10.80	12.80
Volume of Water in Well:	(gal)	1.73	2.05
Three Well Volumes:	(gal)	5.19	6.15

Well Type: Flushmount ☒ Stick-Up ☐  
Well Locked: Yes ☒ No ☐  
Measuring Point Marked: Yes ☒ No ☐  
Well Material: PVC ☒ SS ☐ Other: ☐  
Well Diameter: 1" ☐ 2" ☒ Other: ☐  
Comments:

### Purging Information

Purging Method: ☐ Bailer ☒ Peristaltic ☒ Grundfos Pump ☐ other ☐  
Tubing/Bailer Material: Teflon ☐ Stainless St. ☐ Polyethylene ☒ other ☐  
Sampling Method: Bailer ☐ Peristaltic ☒ Grundfos Pump ☐ other ☐  
Average Pumping Rate: (ml/min) ~ 200  
Duration of Pumping: (min) 30  
Total Volume Removed: (gal) ~ 2.0 Did well go dry? Yes ☐ No ☒  
Horiba U-52 Water Quality Meter Used? Yes ☒ No ☐

Conversion Factors				
gal/ft. of water	1" ID	2" ID	4" ID	6" ID
	0.04	0.16	0.66	1.47
1 gallon=3.785L=3785mL=133.7cu. feet				

Time	DTW (feet)	Amount purged (gal)	Temp °C	pH	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)
1030	9.25		19.56	7.70	-59	7.05	13.2	8.02
1035	9.20		19.31	7.70	-64	6.89	3.7	6.76
1040	9.22		19.14	7.75	-61	7.02	0	6.69
1045	9.22		18.94	7.70	-61	7.21	0	6.16
1050	9.22		18.76	7.64	-59	7.26	0	5.68
1055	9.23		18.70	7.69	-57	7.27	0	5.17
1100	9.23		18.65	7.67	-56	7.27	0	4.89

### Sampling Information:

EPA SW-846 Method 8082 PCB's Low detection limit of 0.05 ppb 6 - 1 liter amber Yes ☒ No ☐  
EPA SW-846 Method 8260 TCL VOC's Including Naphthalene 2 - 40 mL vials Yes ☐ No ☒  
Sample ID: MW-6-1013 Duplicate? Yes ☐ No ☒  
Sample Time: 1100 MS/MSD? Yes ☒ No ☐  
Shipped: Drop-off ☒ TA Courier ☐  
Fed-Ex ☐ UPS ☐  
Comments/Notes: slt on no shen  
Laboratory: Test America  
Amherst, New York





Sampling Personnel: Tim Beaumont

Job Number: 36380.99758

Well Id. MW-12

Date: 10/8/13

Weather: Sunny

Time In: 725

Time Out: 810

### Well Information

		TOC	Other
Depth to Water:	(feet)	8.04	
Depth to Bottom:	(feet)	19.55	
Depth to Product:	(feet)	-	
Length of Water Column:	(feet)	11.51	
Volume of Water in Well:	(gal)	1.84	
Three Well Volumes:	(gal)	5.52	

Well Type: Flushmount ☒ Stick-Up ☐  
Well Locked: Yes ☒ No ☐  
Measuring Point Marked: Yes ☒ No ☐  
Well Material: PVC ☒ SS ☐ Other: ☐  
Well Diameter: 1" ☐ 2" ☒ Other: ☐  
Comments:

### Purging Information

Purging Method: ☐ Bailer ☐ Peristaltic ☒ Grundfos Pump ☐ other ☐  
Tubing/Bailer Material: Teflon ☐ Stainless St. ☐ Polyethylene ☒ other ☐  
Sampling Method: Bailer ☐ Peristaltic ☒ Grundfos Pump ☐ other ☐  
Average Pumping Rate: (ml/min) ~ 200  
Duration of Pumping: (min) 30  
Total Volume Removed: (gal) ~ 2.0  
Did well go dry? Yes ☐ No ☒  
Horiba U-52 Water Quality Meter Used? Yes ☒ No ☐

Conversion Factors				
gal/ft. of water	1" ID	2" ID	4" ID	6" ID
	0.04	0.16	0.66	1.47
1 gallon=3.785L=3785mL=1337cu. feet				

Time	DTW (feet)	Amount purged (gal)	Temp °C	pH	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)
730	9.08		17.42	8.13	19	1.85	6.7	1.75
735	9.25		17.39	7.82	21	1.84	1.6	8.44
740	9.25		17.24	7.79	96	1.83	0	7.93
745	9.24		17.27	7.77	114	1.84	0	7.29
750	9.24		17.26	7.78	123	1.85	0	7.12
755	9.24		17.24	7.78	126	1.84	0	6.86
800	9.24		17.26	7.79	131	1.86	0	6.59

### Sampling Information:

EPA SW-846 Method 8082 PCB's Low detection limit of 0.05 ppb 4 - 1 liter amber Yes ☒ No ☐  
EPA SW-846 Method 8260 TCL VOC's Including Naphthalene 2 - 40 mL vials Yes ☐ No ☒  
Sample ID: MW-12-1013 Duplicate? Yes ☒ No ☐ FD-1013 Shipped: Drop-off ☒ TA Courier ☐  
Sample Time: 800 MS/MSD? Yes ☐ No ☒ Fed-Ex ☐ UPS ☐

Comments/Notes:

No OPA No Sheen.

Laboratory: Test America  
Amherst, New York

Sampling Personnel: Tim Beaumont

Job Number: 36380.99758

Well Id. MW-20

Date: 10/9/12

Weather: Sunny 50

Time In: 8:15

Time Out: 9:00

### Well Information

		TOC	Other
Depth to Water:	(feet)	8.20	
Depth to Bottom:	(feet)	22.60	
Depth to Product:	(feet)	-	
Length of Water Column:	(feet)	14.40	
Volume of Water in Well:	(gal)	2.30	
Three Well Volumes:	(gal)	6.40	

Well Type: Flushmount ☒ Stick-Up ☐  
 Well Locked: Yes ☒ No ☐  
 Measuring Point Marked: Yes ☒ No ☐  
 Well Material: PVC ☒ SS ☐ Other: ☐  
 Well Diameter: 1" ☐ 2" ☒ Other: ☐  
 Comments:

### Purging Information

Purging Method: ☐ Bailer ☒ Peristaltic ☒ Grundfos Pump ☐ other ☐  
 Tubing/Bailer Material: ☐ Teflon ☐ Stainless St. ☒ Polyethylene ☒ other ☐  
 Sampling Method: ☐ Bailer ☒ Peristaltic ☒ Grundfos Pump ☐ other ☐  
 Average Pumping Rate: (ml/min) ~ 200  
 Duration of Pumping: (min) 30  
 Total Volume Removed: (gal) ~ 2.0 Did well go dry? Yes ☐ No ☒  
 Horiba U-52 Water Quality Meter Used? Yes ☒ No ☐

Conversion Factors				
gal/ft. of water	1" ID	2" ID	4" ID	6" ID
	0.04	0.16	0.66	1.47
1 gallon=3.785L=3785mL=1337cu. feet				

Time	DTW (feet)	Amount purged (gal)	Temp °C	pH	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)
8:25	8.28		15.00	7.54	-96	8.70	14.8	0
8:30	8.29		15.15	7.52	-100	8.61	6.2	0
8:35	8.30		15.21	7.52	-107	8.52	1.2	0
8:40	8.30		15.26	7.51	-117	8.50	0	0
8:45	8.30		15.30	7.51	-129	8.46	0	0
8:50	8.30		15.32	7.51	-130	8.47	0	0
8:55	8.30		15.33	7.50	-132	8.47	0	0

### Sampling Information:

EPA SW-846 Method 8082 PCB's Low detection limit of 0.05 ppb 2 - 1 liter amber Yes ☒ No ☐  
 EPA SW-846 Method 8260 TCL VOC's Including Naphthalene 2 - 40 mL vials Yes ☐ No ☒  
 Sample ID: MW-20-1013 Duplicate? Yes ☐ No ☒  
 Sample Time: 8:55 MS/MSD? Yes ☐ No ☒  
 Shipped: Drop-off ☒ TA Courier ☐  
 Fed-Ex ☐ UPS ☐

Comments/Notes: no shen rotten egg odor

Laboratory: Test America  
Amherst, New York



Sampling Personnel: Tim Beaumont

Job Number: 36380.99758

Well Id. **MW-21**

Date: 10/9/13

Weather: Sunny 50

Time In: 900

Time Out: 935

**Well Information**

		TOC	Other
Depth to Water:	(feet)	<u>8.20</u>	
Depth to Bottom:	(feet)	<u>21.85</u>	
Depth to Product:	(feet)	<u>-</u>	
Length of Water Column:	(feet)	<u>13.65</u>	
Volume of Water in Well:	(gal)	<u>1.35</u>	
Three Well Volumes:	(gal)	<u>4.05</u>	

Well Type: Flushmount ☒ Stick-Up ☐  
 Well Locked: Yes ☒ No ☐  
 Measuring Point Marked: Yes ☒ No ☐  
 Well Material: PVC ☒ SS ☐ Other: ☐  
 Well Diameter: 1" ☐ 2" ☒ Other: ☐  
 Comments:

**Purging Information**

Purging Method: ☐ Bailer ☒ Peristaltic ☐ Grundfos Pump ☐ other ☐  
 Tubing/Bailer Material: ☐ Teflon ☐ Stainless St. ☒ Polyethylene ☐ other ☐  
 Sampling Method: ☐ Bailer ☒ Peristaltic ☐ Grundfos Pump ☐ other ☐  
 Average Pumping Rate: (ml/min) ~200  
 Duration of Pumping: (min) 30  
 Total Volume Removed: (gal) 2.0 Did well go dry? Yes ☐ No ☒  
 Horiba U-52 Water Quality Meter Used? Yes ☒ No ☐

Conversion Factors				
gal/ft. of water	1" ID	2" ID	4" ID	6" ID
	0.04	0.16	0.66	1.47
1 gallon=3.785L=3785mL=1337cu. feet				

Time	DTW (feet)	Amount purged (gal)	Temp °C	pH	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)
<u>900</u>			<u>14.92</u>	<u>7.85</u>	<u>-78</u>	<u>2.63</u>	<u>12.6</u>	<u>.04</u>
<u>905</u>			<u>15.98</u>	<u>7.64</u>	<u>-65</u>	<u>2.52</u>	<u>2.2</u>	<u>0</u>
<u>910</u>			<u>16.05</u>	<u>7.62</u>	<u>-60</u>	<u>2.50</u>	<u>0</u>	<u>0</u>
<u>915</u>			<u>16.17</u>	<u>7.68</u>	<u>-56</u>	<u>2.48</u>	<u>0</u>	<u>0</u>
<u>920</u>			<u>16.19</u>	<u>7.71</u>	<u>-52</u>	<u>2.49</u>	<u>0</u>	<u>0</u>
<u>925</u>			<u>16.23</u>	<u>7.72</u>	<u>-48</u>	<u>2.50</u>	<u>0</u>	<u>0</u>
<u>930</u>			<u>16.24</u>	<u>7.72</u>	<u>-47</u>	<u>2.50</u>	<u>0</u>	<u>0</u>

**Sampling Information:**

EPA SW-846 Method 8082 PCB's Low detection limit of 0.05 ppb 2 - 1 liter amber Yes ☒ No ☐  
 EPA SW-846 Method 8260 TCL VOC's Including Naphthalene 2 - 40 mL vials Yes ☐ No ☒  
 Sample ID: MW-21-1013 Duplicate? Yes ☐ No ☒  
 Sample Time: 930 MS/MSD? Yes ☐ No ☒  
 Shipped: Drop-off ☒ TA Courier ☐  
 Fed-Ex ☐ UPS ☐

Comments/Notes: no shear no H<sub>2</sub> leg ocln

Laboratory: Test America  
Amherst, New York



Appendix B  
April & October 2013  
Groundwater Monitoring  
Laboratory Data

# 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: 480-36521-1

Client Project/Site: CDM Smith - NG Dewey Ave Service Center

Revision: 1

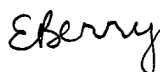
For:

CDM Smith, Inc.

One General Motors Drive

Syracuse, New York 13206

Attn: Matthew Millias



Authorized for release by:

4/24/2013 1:09:45 PM

Eve Berry

Project Administrator

[eve.berry@testamericainc.com](mailto:eve.berry@testamericainc.com)

Designee for

Peggy Gray-Erdmann

Project Manager II

[peggy.gray-erdmann@testamericainc.com](mailto:peggy.gray-erdmann@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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11  
12  
13  
14  
15  
16

# 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 . . . . .	9
QC Sample Results . . . . .	10
QC Association Summary . . . . .	12
Lab Chronicle . . . . .	13
Certification Summary . . . . .	15
Method Summary . . . . .	16
Sample Summary . . . . .	17
Detection Limit Exceptions Summary . . . . .	18
Chain of Custody . . . . .	19
Receipt Checklists . . . . .	20



## Definitions/Glossary

Client: CDM Smith, Inc.  
Project/Site: CDM Smith - NG Dewey Ave Service Center

TestAmerica Job ID: 480-36521-1

### Qualifiers

#### GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside 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
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
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)
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: CDM Smith, Inc.  
Project/Site: CDM Smith - NG Dewey Ave Service Center

TestAmerica Job ID: 480-36521-1

**Job ID: 480-36521-1**

**Laboratory: TestAmerica Buffalo**

### Narrative

#### Job Narrative 480-36521-1

### Comments

No additional comments.

### Receipt

The samples were received on 4/17/2013 2:25 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.8° C and 3.6° C.

Except:

Report revised to list site on cover page.

### GC Semi VOA

Method(s) 8082: The following samples contained more than one Aroclor component: MW-1-0413 (480-36521-15), MW-9-0413 (480-36521-17). Results are estimated due to shared peaks.

Method(s) 8082: The following sample was diluted due to the nature of the sample matrix: MW-9-0413 (480-36521-17). As such, surrogate recoveries are not representative, and elevated reporting limits (RLs) are provided.

Method(s) 8082: The continuing calibration verifications (CCV) for analytical batch 114206 exceeded control criteria for surrogates Decachlorobiphenyl and Tetrachloro-m-xylene. The data have been qualified and reported.

Method(s) 8082: The percent difference in a multi-component continuing calibration verification is assessed on the basis of the total amount, individual peak calculations are only listed for completeness.

Method(s) 8082: All primary data is reported from the ZB-5 column, with the exception of samples MW-1-0413 (480-36521-15), MW-9-0413 (480-36521-17) and LCS 480-113732/2-A, for which primary data is reported from the ZB-35 column.

No other analytical or quality issues were noted.

### Organic Prep

No analytical or quality issues were noted.

## Detection Summary

Client: CDM Smith, Inc.  
Project/Site: CDM Smith - NG Dewey Ave Service Center

TestAmerica Job ID: 480-36521-1

### Client Sample ID: MW-1-0413

Lab Sample ID: 480-36521-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1016	3.2		0.047		ug/L	1		8082	Total/NA
PCB-1221	2.5		0.047		ug/L	1		8082	Total/NA
Polychlorinated biphenyls, Total	5.7		0.057		ug/L	1		8082	Total/NA

### Client Sample ID: MW-6-0413

Lab Sample ID: 480-36521-16

No Detections.

### Client Sample ID: MW-9-0413

Lab Sample ID: 480-36521-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1016	2.6		0.47		ug/L	10		8082	Total/NA
PCB-1221	21		0.47		ug/L	10		8082	Total/NA
Polychlorinated biphenyls, Total	24		0.57		ug/L	10		8082	Total/NA

### Client Sample ID: MW-11-0413

Lab Sample ID: 480-36521-18

No Detections.

### Client Sample ID: MW-12-0413

Lab Sample ID: 480-36521-19

No Detections.

### Client Sample ID: MW-20-0413

Lab Sample ID: 480-36521-20

No Detections.

### Client Sample ID: MW-21-0413

Lab Sample ID: 480-36521-21

No Detections.

### Client Sample ID: MW-24-0413

Lab Sample ID: 480-36521-22

No Detections.

### Client Sample ID: FD-0413

Lab Sample ID: 480-36521-23

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo



# Client Sample Results

Client: CDM Smith, Inc.  
Project/Site: CDM Smith - NG Dewey Ave Service Center

TestAmerica Job ID: 480-36521-1

**Client Sample ID: MW-1-0413**

**Lab Sample ID: 480-36521-15**

**Date Collected: 04/17/13 12:05**

**Matrix: Water**

**Date Received: 04/17/13 14:25**

## Method: 8082 - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	3.2		0.047		ug/L		04/18/13 15:03	04/22/13 10:41	1
PCB-1221	2.5		0.047		ug/L		04/18/13 15:03	04/22/13 10:41	1
PCB-1232	ND		0.047		ug/L		04/18/13 15:03	04/22/13 10:41	1
PCB-1242	ND		0.047		ug/L		04/18/13 15:03	04/22/13 10:41	1
PCB-1248	ND		0.047		ug/L		04/18/13 15:03	04/22/13 10:41	1
PCB-1254	ND		0.047		ug/L		04/18/13 15:03	04/22/13 10:41	1
PCB-1260	ND		0.047		ug/L		04/18/13 15:03	04/22/13 10:41	1
Polychlorinated biphenyls, Total	5.7		0.057		ug/L		04/18/13 15:03	04/22/13 10:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	101		32 - 172				04/18/13 15:03	04/22/13 10:41	1
DCB Decachlorobiphenyl	49		18 - 151				04/18/13 15:03	04/22/13 10:41	1

**Client Sample ID: MW-6-0413**

**Lab Sample ID: 480-36521-16**

**Date Collected: 04/17/13 07:30**

**Matrix: Water**

**Date Received: 04/17/13 14:25**

## Method: 8082 - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.047		ug/L		04/18/13 15:03	04/20/13 13:13	1
PCB-1221	ND		0.047		ug/L		04/18/13 15:03	04/20/13 13:13	1
PCB-1232	ND		0.047		ug/L		04/18/13 15:03	04/20/13 13:13	1
PCB-1242	ND		0.047		ug/L		04/18/13 15:03	04/20/13 13:13	1
PCB-1248	ND		0.047		ug/L		04/18/13 15:03	04/20/13 13:13	1
PCB-1254	ND		0.047		ug/L		04/18/13 15:03	04/20/13 13:13	1
PCB-1260	ND		0.047		ug/L		04/18/13 15:03	04/20/13 13:13	1
Polychlorinated biphenyls, Total	ND		0.057		ug/L		04/18/13 15:03	04/20/13 13:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	125		32 - 172				04/18/13 15:03	04/20/13 13:13	1
DCB Decachlorobiphenyl	62		18 - 151				04/18/13 15:03	04/20/13 13:13	1

**Client Sample ID: MW-9-0413**

**Lab Sample ID: 480-36521-17**

**Date Collected: 04/17/13 11:30**

**Matrix: Water**

**Date Received: 04/17/13 14:25**

## Method: 8082 - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	2.6		0.47		ug/L		04/18/13 15:03	04/22/13 10:56	10
PCB-1221	21		0.47		ug/L		04/18/13 15:03	04/22/13 10:56	10
PCB-1232	ND		0.47		ug/L		04/18/13 15:03	04/22/13 10:56	10
PCB-1242	ND		0.47		ug/L		04/18/13 15:03	04/22/13 10:56	10
PCB-1248	ND		0.47		ug/L		04/18/13 15:03	04/22/13 10:56	10
PCB-1254	ND		0.47		ug/L		04/18/13 15:03	04/22/13 10:56	10
PCB-1260	ND		0.47		ug/L		04/18/13 15:03	04/22/13 10:56	10
Polychlorinated biphenyls, Total	24		0.57		ug/L		04/18/13 15:03	04/22/13 10:56	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	0	X	32 - 172				04/18/13 15:03	04/22/13 10:56	10
DCB Decachlorobiphenyl	63		18 - 151				04/18/13 15:03	04/22/13 10:56	10

TestAmerica Buffalo

# Client Sample Results

Client: CDM Smith, Inc.  
Project/Site: CDM Smith - NG Dewey Ave Service Center

TestAmerica Job ID: 480-36521-1

**Client Sample ID: MW-11-0413**

**Lab Sample ID: 480-36521-18**

**Date Collected: 04/17/13 10:55**

**Matrix: Water**

**Date Received: 04/17/13 14:25**

## Method: 8082 - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.047		ug/L		04/18/13 15:03	04/20/13 14:12	1
PCB-1221	ND		0.047		ug/L		04/18/13 15:03	04/20/13 14:12	1
PCB-1232	ND		0.047		ug/L		04/18/13 15:03	04/20/13 14:12	1
PCB-1242	ND		0.047		ug/L		04/18/13 15:03	04/20/13 14:12	1
PCB-1248	ND		0.047		ug/L		04/18/13 15:03	04/20/13 14:12	1
PCB-1254	ND		0.047		ug/L		04/18/13 15:03	04/20/13 14:12	1
PCB-1260	ND		0.047		ug/L		04/18/13 15:03	04/20/13 14:12	1
Polychlorinated biphenyls, Total	ND		0.057		ug/L		04/18/13 15:03	04/20/13 14:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	101		32 - 172	04/18/13 15:03	04/20/13 14:12	1
DCB Decachlorobiphenyl	65		18 - 151	04/18/13 15:03	04/20/13 14:12	1

**Client Sample ID: MW-12-0413**

**Lab Sample ID: 480-36521-19**

**Date Collected: 04/17/13 10:15**

**Matrix: Water**

**Date Received: 04/17/13 14:25**

## Method: 8082 - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.047		ug/L		04/18/13 15:03	04/20/13 14:27	1
PCB-1221	ND		0.047		ug/L		04/18/13 15:03	04/20/13 14:27	1
PCB-1232	ND		0.047		ug/L		04/18/13 15:03	04/20/13 14:27	1
PCB-1242	ND		0.047		ug/L		04/18/13 15:03	04/20/13 14:27	1
PCB-1248	ND		0.047		ug/L		04/18/13 15:03	04/20/13 14:27	1
PCB-1254	ND		0.047		ug/L		04/18/13 15:03	04/20/13 14:27	1
PCB-1260	ND		0.047		ug/L		04/18/13 15:03	04/20/13 14:27	1
Polychlorinated biphenyls, Total	ND		0.057		ug/L		04/18/13 15:03	04/20/13 14:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	97		32 - 172	04/18/13 15:03	04/20/13 14:27	1
DCB Decachlorobiphenyl	74		18 - 151	04/18/13 15:03	04/20/13 14:27	1

**Client Sample ID: MW-20-0413**

**Lab Sample ID: 480-36521-20**

**Date Collected: 04/17/13 08:50**

**Matrix: Water**

**Date Received: 04/17/13 14:25**

## Method: 8082 - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.047		ug/L		04/18/13 15:03	04/20/13 14:42	1
PCB-1221	ND		0.047		ug/L		04/18/13 15:03	04/20/13 14:42	1
PCB-1232	ND		0.047		ug/L		04/18/13 15:03	04/20/13 14:42	1
PCB-1242	ND		0.047		ug/L		04/18/13 15:03	04/20/13 14:42	1
PCB-1248	ND		0.047		ug/L		04/18/13 15:03	04/20/13 14:42	1
PCB-1254	ND		0.047		ug/L		04/18/13 15:03	04/20/13 14:42	1
PCB-1260	ND		0.047		ug/L		04/18/13 15:03	04/20/13 14:42	1
Polychlorinated biphenyls, Total	ND		0.057		ug/L		04/18/13 15:03	04/20/13 14:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	90		32 - 172	04/18/13 15:03	04/20/13 14:42	1
DCB Decachlorobiphenyl	58		18 - 151	04/18/13 15:03	04/20/13 14:42	1

TestAmerica Buffalo

# Client Sample Results

Client: CDM Smith, Inc.  
Project/Site: CDM Smith - NG Dewey Ave Service Center

TestAmerica Job ID: 480-36521-1

**Client Sample ID: MW-21-0413**

**Lab Sample ID: 480-36521-21**

**Date Collected: 04/17/13 09:30**

**Matrix: Water**

**Date Received: 04/17/13 14:25**

## Method: 8082 - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.047		ug/L		04/18/13 15:03	04/20/13 14:56	1
PCB-1221	ND		0.047		ug/L		04/18/13 15:03	04/20/13 14:56	1
PCB-1232	ND		0.047		ug/L		04/18/13 15:03	04/20/13 14:56	1
PCB-1242	ND		0.047		ug/L		04/18/13 15:03	04/20/13 14:56	1
PCB-1248	ND		0.047		ug/L		04/18/13 15:03	04/20/13 14:56	1
PCB-1254	ND		0.047		ug/L		04/18/13 15:03	04/20/13 14:56	1
PCB-1260	ND		0.047		ug/L		04/18/13 15:03	04/20/13 14:56	1
Polychlorinated biphenyls, Total	ND		0.057		ug/L		04/18/13 15:03	04/20/13 14:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	90		32 - 172	04/18/13 15:03	04/20/13 14:56	1
DCB Decachlorobiphenyl	73		18 - 151	04/18/13 15:03	04/20/13 14:56	1

**Client Sample ID: MW-24-0413**

**Lab Sample ID: 480-36521-22**

**Date Collected: 04/17/13 08:15**

**Matrix: Water**

**Date Received: 04/17/13 14:25**

## Method: 8082 - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.047		ug/L		04/18/13 15:03	04/20/13 15:11	1
PCB-1221	ND		0.047		ug/L		04/18/13 15:03	04/20/13 15:11	1
PCB-1232	ND		0.047		ug/L		04/18/13 15:03	04/20/13 15:11	1
PCB-1242	ND		0.047		ug/L		04/18/13 15:03	04/20/13 15:11	1
PCB-1248	ND		0.047		ug/L		04/18/13 15:03	04/20/13 15:11	1
PCB-1254	ND		0.047		ug/L		04/18/13 15:03	04/20/13 15:11	1
PCB-1260	ND		0.047		ug/L		04/18/13 15:03	04/20/13 15:11	1
Polychlorinated biphenyls, Total	ND		0.057		ug/L		04/18/13 15:03	04/20/13 15:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	87		32 - 172	04/18/13 15:03	04/20/13 15:11	1
DCB Decachlorobiphenyl	60		18 - 151	04/18/13 15:03	04/20/13 15:11	1

**Client Sample ID: FD-0413**

**Lab Sample ID: 480-36521-23**

**Date Collected: 04/17/13 00:00**

**Matrix: Water**

**Date Received: 04/17/13 14:25**

## Method: 8082 - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.047		ug/L		04/18/13 15:03	04/20/13 15:56	1
PCB-1221	ND		0.047		ug/L		04/18/13 15:03	04/20/13 15:56	1
PCB-1232	ND		0.047		ug/L		04/18/13 15:03	04/20/13 15:56	1
PCB-1242	ND		0.047		ug/L		04/18/13 15:03	04/20/13 15:56	1
PCB-1248	ND		0.047		ug/L		04/18/13 15:03	04/20/13 15:56	1
PCB-1254	ND		0.047		ug/L		04/18/13 15:03	04/20/13 15:56	1
PCB-1260	ND		0.047		ug/L		04/18/13 15:03	04/20/13 15:56	1
Polychlorinated biphenyls, Total	ND		0.057		ug/L		04/18/13 15:03	04/20/13 15:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	89		32 - 172	04/18/13 15:03	04/20/13 15:56	1
DCB Decachlorobiphenyl	69		18 - 151	04/18/13 15:03	04/20/13 15:56	1

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## Surrogate Summary

Client: CDM Smith, Inc.  
Project/Site: CDM Smith - NG Dewey Ave Service Center

TestAmerica Job ID: 480-36521-1

### Method: 8082 - Polychlorinated Biphenyls (PCBs) (GC)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX2 (32-172)	DCB2 (18-151)
480-36521-15	MW-1-0413	101	49
480-36521-17	MW-9-0413	0 X	63
LCS 480-113732/2-A	Lab Control Sample	78	55
<b>Surrogate Legend</b>			
TCX = Tetrachloro-m-xylene			
DCB = DCB Decachlorobiphenyl			

### Method: 8082 - Polychlorinated Biphenyls (PCBs) (GC)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX1 (32-172)	DCB1 (18-151)
480-36521-16	MW-6-0413	125	62
480-36521-16 MS	MW-6-0413	106	71
480-36521-16 MSD	MW-6-0413	106	80
480-36521-18	MW-11-0413	101	65
480-36521-19	MW-12-0413	97	74
480-36521-20	MW-20-0413	90	58
480-36521-21	MW-21-0413	90	73
480-36521-22	MW-24-0413	87	60
480-36521-23	FD-0413	89	69
MB 480-113732/1-A	Method Blank	96	106
<b>Surrogate Legend</b>			
TCX = Tetrachloro-m-xylene			
DCB = DCB Decachlorobiphenyl			

# QC Sample Results

Client: CDM Smith, Inc.  
Project/Site: CDM Smith - NG Dewey Ave Service Center

TestAmerica Job ID: 480-36521-1

## Method: 8082 - Polychlorinated Biphenyls (PCBs) (GC)

Lab Sample ID: MB 480-113732/1-A

Matrix: Water

Analysis Batch: 114063

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 113732

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.050		ug/L		04/18/13 15:03	04/20/13 09:11	1
PCB-1221	ND		0.050		ug/L		04/18/13 15:03	04/20/13 09:11	1
PCB-1232	ND		0.050		ug/L		04/18/13 15:03	04/20/13 09:11	1
PCB-1242	ND		0.050		ug/L		04/18/13 15:03	04/20/13 09:11	1
PCB-1248	ND		0.050		ug/L		04/18/13 15:03	04/20/13 09:11	1
PCB-1254	ND		0.050		ug/L		04/18/13 15:03	04/20/13 09:11	1
PCB-1260	ND		0.050		ug/L		04/18/13 15:03	04/20/13 09:11	1
Polychlorinated biphenyls, Total	ND		0.060		ug/L		04/18/13 15:03	04/20/13 09:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	96		32 - 172	04/18/13 15:03	04/20/13 09:11	1
DCB Decachlorobiphenyl	106		18 - 151	04/18/13 15:03	04/20/13 09:11	1

Lab Sample ID: LCS 480-113732/2-A

Matrix: Water

Analysis Batch: 114206

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 113732

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	1.00	1.31		ug/L		131	50 - 149
PCB-1260	1.00	1.10		ug/L		110	54 - 146

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	78		32 - 172
DCB Decachlorobiphenyl	55		18 - 151

Lab Sample ID: 480-36521-16 MS

Matrix: Water

Analysis Batch: 114063

Client Sample ID: MW-6-0413

Prep Type: Total/NA

Prep Batch: 113732

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	ND		0.946	1.36		ug/L		144	32 - 156
PCB-1260	ND		0.946	1.22		ug/L		129	10 - 140

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene	106		32 - 172
DCB Decachlorobiphenyl	71		18 - 151

Lab Sample ID: 480-36521-16 MSD

Matrix: Water

Analysis Batch: 114063

Client Sample ID: MW-6-0413

Prep Type: Total/NA

Prep Batch: 113732

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		0.946	1.37		ug/L		145	32 - 156	1	50
PCB-1260	ND		0.946	1.25		ug/L		133	10 - 140	3	50

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Tetrachloro-m-xylene	106		32 - 172

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## QC Sample Results

Client: CDM Smith, Inc.  
Project/Site: CDM Smith - NG Dewey Ave Service Center

TestAmerica Job ID: 480-36521-1

### Method: 8082 - Polychlorinated Biphenyls (PCBs) (GC) (Continued)

Lab Sample ID: 480-36521-16 MSD

Matrix: Water

Analysis Batch: 114063

Client Sample ID: MW-6-0413

Prep Type: Total/NA

Prep Batch: 113732

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl	80		18 - 151

## QC Association Summary

Client: CDM Smith, Inc.  
Project/Site: CDM Smith - NG Dewey Ave Service Center

TestAmerica Job ID: 480-36521-1

### GC Semi VOA

#### Prep Batch: 113732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-36521-15	MW-1-0413	Total/NA	Water	3510C	
480-36521-16	MW-6-0413	Total/NA	Water	3510C	
480-36521-16 MS	MW-6-0413	Total/NA	Water	3510C	
480-36521-16 MSD	MW-6-0413	Total/NA	Water	3510C	
480-36521-17	MW-9-0413	Total/NA	Water	3510C	
480-36521-18	MW-11-0413	Total/NA	Water	3510C	
480-36521-19	MW-12-0413	Total/NA	Water	3510C	
480-36521-20	MW-20-0413	Total/NA	Water	3510C	
480-36521-21	MW-21-0413	Total/NA	Water	3510C	
480-36521-22	MW-24-0413	Total/NA	Water	3510C	
480-36521-23	FD-0413	Total/NA	Water	3510C	
LCS 480-113732/2-A	Lab Control Sample	Total/NA	Water	3510C	
MB 480-113732/1-A	Method Blank	Total/NA	Water	3510C	

#### Analysis Batch: 114063

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-36521-16	MW-6-0413	Total/NA	Water	8082	113732
480-36521-16 MS	MW-6-0413	Total/NA	Water	8082	113732
480-36521-16 MSD	MW-6-0413	Total/NA	Water	8082	113732
480-36521-18	MW-11-0413	Total/NA	Water	8082	113732
480-36521-19	MW-12-0413	Total/NA	Water	8082	113732
480-36521-20	MW-20-0413	Total/NA	Water	8082	113732
480-36521-21	MW-21-0413	Total/NA	Water	8082	113732
480-36521-22	MW-24-0413	Total/NA	Water	8082	113732
480-36521-23	FD-0413	Total/NA	Water	8082	113732
MB 480-113732/1-A	Method Blank	Total/NA	Water	8082	113732

#### Analysis Batch: 114206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-36521-15	MW-1-0413	Total/NA	Water	8082	113732
480-36521-17	MW-9-0413	Total/NA	Water	8082	113732
LCS 480-113732/2-A	Lab Control Sample	Total/NA	Water	8082	113732



## Lab Chronicle

Client: CDM Smith, Inc.  
Project/Site: CDM Smith - NG Dewey Ave Service Center

TestAmerica Job ID: 480-36521-1

### Client Sample ID: MW-1-0413

Date Collected: 04/17/13 12:05

Date Received: 04/17/13 14:25

### Lab Sample ID: 480-36521-15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			113732	04/18/13 15:03	TG	TAL BUF
Total/NA	Analysis	8082		1	114206	04/22/13 10:41	JM	TAL BUF

### Client Sample ID: MW-6-0413

Date Collected: 04/17/13 07:30

Date Received: 04/17/13 14:25

### Lab Sample ID: 480-36521-16

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			113732	04/18/13 15:03	TG	TAL BUF
Total/NA	Analysis	8082		1	114063	04/20/13 13:13	JM	TAL BUF

### Client Sample ID: MW-9-0413

Date Collected: 04/17/13 11:30

Date Received: 04/17/13 14:25

### Lab Sample ID: 480-36521-17

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			113732	04/18/13 15:03	TG	TAL BUF
Total/NA	Analysis	8082		10	114206	04/22/13 10:56	JM	TAL BUF

### Client Sample ID: MW-11-0413

Date Collected: 04/17/13 10:55

Date Received: 04/17/13 14:25

### Lab Sample ID: 480-36521-18

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			113732	04/18/13 15:03	TG	TAL BUF
Total/NA	Analysis	8082		1	114063	04/20/13 14:12	JM	TAL BUF

### Client Sample ID: MW-12-0413

Date Collected: 04/17/13 10:15

Date Received: 04/17/13 14:25

### Lab Sample ID: 480-36521-19

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			113732	04/18/13 15:03	TG	TAL BUF
Total/NA	Analysis	8082		1	114063	04/20/13 14:27	JM	TAL BUF

### Client Sample ID: MW-20-0413

Date Collected: 04/17/13 08:50

Date Received: 04/17/13 14:25

### Lab Sample ID: 480-36521-20

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			113732	04/18/13 15:03	TG	TAL BUF
Total/NA	Analysis	8082		1	114063	04/20/13 14:42	JM	TAL BUF

TestAmerica Buffalo

# Lab Chronicle

Client: CDM Smith, Inc.  
Project/Site: CDM Smith - NG Dewey Ave Service Center

TestAmerica Job ID: 480-36521-1

**Client Sample ID: MW-21-0413**

**Lab Sample ID: 480-36521-21**

**Date Collected: 04/17/13 09:30**

**Matrix: Water**

**Date Received: 04/17/13 14:25**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			113732	04/18/13 15:03	TG	TAL BUF
Total/NA	Analysis	8082		1	114063	04/20/13 14:56	JM	TAL BUF

**Client Sample ID: MW-24-0413**

**Lab Sample ID: 480-36521-22**

**Date Collected: 04/17/13 08:15**

**Matrix: Water**

**Date Received: 04/17/13 14:25**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			113732	04/18/13 15:03	TG	TAL BUF
Total/NA	Analysis	8082		1	114063	04/20/13 15:11	JM	TAL BUF

**Client Sample ID: FD-0413**

**Lab Sample ID: 480-36521-23**

**Date Collected: 04/17/13 00:00**

**Matrix: Water**

**Date Received: 04/17/13 14:25**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			113732	04/18/13 15:03	TG	TAL BUF
Total/NA	Analysis	8082		1	114063	04/20/13 15:56	JM	TAL BUF

## Laboratory References:

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

## Certification Summary

Client: CDM Smith, Inc.  
Project/Site: CDM Smith - NG Dewey Ave Service Center

TestAmerica Job ID: 480-36521-1

### 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	04-01-14

## Method Summary

Client: CDM Smith, Inc.  
Project/Site: CDM Smith - NG Dewey Ave Service Center

TestAmerica Job ID: 480-36521-1

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) (GC)	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

## Sample Summary

Client: CDM Smith, Inc.

TestAmerica Job ID: 480-36521-1

Project/Site: CDM Smith - NG Dewey Ave Service Center

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-36521-15	MW-1-0413	Water	04/17/13 12:05	04/17/13 14:25
480-36521-16	MW-6-0413	Water	04/17/13 07:30	04/17/13 14:25
480-36521-17	MW-9-0413	Water	04/17/13 11:30	04/17/13 14:25
480-36521-18	MW-11-0413	Water	04/17/13 10:55	04/17/13 14:25
480-36521-19	MW-12-0413	Water	04/17/13 10:15	04/17/13 14:25
480-36521-20	MW-20-0413	Water	04/17/13 08:50	04/17/13 14:25
480-36521-21	MW-21-0413	Water	04/17/13 09:30	04/17/13 14:25
480-36521-22	MW-24-0413	Water	04/17/13 08:15	04/17/13 14:25
480-36521-23	FD-0413	Water	04/17/13 00:00	04/17/13 14:25

## Detection Limit Exceptions Summary

Client: CDM Smith, Inc.  
Project/Site: CDM Smith - NG Dewey Ave Service Center

TestAmerica Job ID: 480-36521-1

The requested project specific reporting limits listed below were less than laboratory standard quantitation limits (PQL) but greater than or equal to the laboratory method detection limits (MDL). It must be noted that results reported below lab standard quantitation limits may result in false positive/false negative values and less accurate quantitation. Routine laboratory procedures do not indicate corrective action for detections below the laboratory's PQL.

Method	Matrix	Analyte	Units	Client RL	Lab PQL
8082	Water	PCB-1016	ug/L	0.050	0.06
8082	Water	PCB-1221	ug/L	0.050	0.06
8082	Water	PCB-1232	ug/L	0.050	0.06
8082	Water	PCB-1242	ug/L	0.050	0.06
8082	Water	PCB-1248	ug/L	0.050	0.06
8082	Water	PCB-1254	ug/L	0.050	0.06
8082	Water	PCB-1260	ug/L	0.050	0.06

## Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

<b>Client Information</b>		Sampler: <i>Tim Beaudet</i>		Lab PM: Gray-Erdmann, Peggy		Carrier Tracking No(s):		COC No: 480-34362-8767.1	
Client Contact: Timothy Beaumont		Phone: 585 735 2368		E-Mail: peggy.gray-erdmann@testamericainc.com		Page: Page 1 of 1		Job #: 480-3052.1	
Company: CDM Smith, Inc.		Address: One General Motors Drive Syracuse State, Zip: NY, 13206		PO #: 36380.93808 WO #: 48002647		Project #: 48002647		SSOW#:	
Email: beaumonttj@cdmsmith.com		Due Date Requested:		TAT Requested (days):		Field Filtered Sample (Yes or No)		8082_LL - (MOD) Local Method	
Site: New York		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Preservation Code	
Matrix (Water, S-acid, O-water, B-Tissue, A=Al)		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Preservation Code	
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Preservation Code	
MW-1-0413		4/17/13		1205		6		Water	
MW-6-0413		4/17/13		730		6		Water	
MW-6 MS-0413		4/17/13		730		6		Water	
MW-6 SD-0413		4/17/13		730		6		Water	
MW-9-0413		4/17/13		1120		6		Water	
MW-11-0413		4/17/13		1055		6		Water	
MW-12-0413		4/17/13		1015		6		Water	
MW-20-0413		4/17/13		850		6		Water	
MW-21-0413		4/17/13		930		6		Water	
MW-24-0413		4/17/13		815		6		Water	
FD-0413		4/17/13		-		6		Water	
Possible Hazard Identification		Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological <input type="checkbox"/>		Deliverable Requested: I, II, III, IV, Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For <input type="checkbox"/> Months	
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:		Special Instructions/Note:	
Relinquished by: <i>Tim Beaudet</i>		Date/Time: 4/17/13 14:25		Company: CDM Smith		Relinquished by: <i>Peggy Gray-Erdmann</i>		Date/Time: 4/17/13 14:25	
Relinquished by:		Date/Time:		Company:		Relinquished by:		Date/Time:	
Relinquished by:		Date/Time:		Company:		Relinquished by:		Date/Time:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: #1 20.2, 3.6		Company:		Date/Time:	



## Login Sample Receipt Checklist

Client: CDM Smith, Inc.

Job Number: 480-36521-1

Login Number: 36521

List Source: TestAmerica Buffalo

List Number: 1

Creator: Kolb, Chris M

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
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.	N/A	
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	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

# 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: 480-47573-1

Client Project/Site: CDM Smith

Sampling Event: Dewey Avenue GW Wells Oct

For:

CDM Smith, Inc.

One General Motors Drive

Syracuse, New York 13206

Attn: Matthew Millias

*Peggy Gray-Erdmann*

Authorized for release by:

10/22/2013 2:29:57 PM

Peggy Gray-Erdmann, Project Manager II

(716)504-9829

[peggy.gray-erdmann@testamericainc.com](mailto:peggy.gray-erdmann@testamericainc.com)

### LINKS

Review your project  
results through

TotalAccess

Have a Question?



Visit us at:

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

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

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

# 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 . . . . . 9

QC Sample Results . . . . . 10

QC Association Summary . . . . . 12

Lab Chronicle . . . . . 13

Certification Summary . . . . . 15

Method Summary . . . . . 16

Sample Summary . . . . . 17

Detection Limit Exceptions Summary . . . . . 18

Chain of Custody . . . . . 19

Receipt Checklists . . . . . 20



## Definitions/Glossary

Client: CDM Smith, Inc.  
Project/Site: CDM Smith

TestAmerica Job ID: 480-47573-1

### Qualifiers

#### GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside 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
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: CDM Smith, Inc.  
Project/Site: CDM Smith

TestAmerica Job ID: 480-47573-1

**Job ID: 480-47573-1**

**Laboratory: TestAmerica Buffalo**

### Narrative

#### Job Narrative 480-47573-1

### Comments

No additional comments.

### Receipt

The samples were received on 10/9/2013 12:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 2.0° C, 2.2° C and 2.9° C.

### GC Semi VOA

Method(s) 8082A: The surrogate percent difference in the associated continuing calibration verifications (CCV) for Tetrachloro-m-xylene was decreased and slightly exceeded 15% on the ZB-5 column, indicating a low bias. (CCV 480-144204/12), (CCV 480-144204/146), (CCV 480-144204/2), (CCV 480-144204/23), (CCV 480-144204/34)

Method(s) 8082A: The following samples contained more than one Aroclor component: MW-9-1013 (480-47573-4). Results are estimated due to shared peaks.

Method(s) 8082A: The following sample was diluted due to the abundance of target analytes: MW-9-1013 (480-47573-4). As such, surrogate recoveries are not representative, and elevated reporting limits (RLs) are provided.

Method(s) 8082A: All primary data is reported from the ZB-5 column.

Method(s) 8082A: The percent difference in a multi-component continuing calibration verification is assessed on the basis of the total amount, individual peak calculations are only listed for completeness.

No other analytical or quality issues were noted.

### Organic Prep

No analytical or quality issues were noted.

## Detection Summary

Client: CDM Smith, Inc.  
Project/Site: CDM Smith

TestAmerica Job ID: 480-47573-1

### Client Sample ID: FD-1013

Lab Sample ID: 480-47573-1

No Detections.

### Client Sample ID: MW-1-1013

Lab Sample ID: 480-47573-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1242	0.15		0.047		ug/L	1		8082A	Total/NA
Polychlorinated biphenyls, Total	0.15		0.057		ug/L	1		8082A	Total/NA

### Client Sample ID: MW-6-1013

Lab Sample ID: 480-47573-3

No Detections.

### Client Sample ID: MW-9-1013

Lab Sample ID: 480-47573-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1016	3.1		0.47		ug/L	10		8082A	Total/NA
PCB-1221	13		0.47		ug/L	10		8082A	Total/NA
Polychlorinated biphenyls, Total	16		0.57		ug/L	10		8082A	Total/NA

### Client Sample ID: MW-11-1013

Lab Sample ID: 480-47573-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1242	0.10		0.047		ug/L	1		8082A	Total/NA
Polychlorinated biphenyls, Total	0.10		0.057		ug/L	1		8082A	Total/NA

### Client Sample ID: MW-12-1013

Lab Sample ID: 480-47573-6

No Detections.

### Client Sample ID: MW-20-1013

Lab Sample ID: 480-47573-7

No Detections.

### Client Sample ID: MW-21-1013

Lab Sample ID: 480-47573-8

No Detections.

### Client Sample ID: MW-24-1013

Lab Sample ID: 480-47573-9

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

# Client Sample Results

Client: CDM Smith, Inc.  
Project/Site: CDM Smith

TestAmerica Job ID: 480-47573-1

**Client Sample ID: FD-1013**

**Lab Sample ID: 480-47573-1**

**Date Collected: 10/08/13 00:00**

**Matrix: Water**

**Date Received: 10/09/13 12:30**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.047		ug/L		10/10/13 14:46	10/11/13 11:59	1
PCB-1221	ND		0.047		ug/L		10/10/13 14:46	10/11/13 11:59	1
PCB-1232	ND		0.047		ug/L		10/10/13 14:46	10/11/13 11:59	1
PCB-1242	ND		0.047		ug/L		10/10/13 14:46	10/11/13 11:59	1
PCB-1248	ND		0.047		ug/L		10/10/13 14:46	10/11/13 11:59	1
PCB-1254	ND		0.047		ug/L		10/10/13 14:46	10/11/13 11:59	1
PCB-1260	ND		0.047		ug/L		10/10/13 14:46	10/11/13 11:59	1
Polychlorinated biphenyls, Total	ND		0.057		ug/L		10/10/13 14:46	10/11/13 11:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	63		32 - 172				10/10/13 14:46	10/11/13 11:59	1
DCB Decachlorobiphenyl	75		18 - 151				10/10/13 14:46	10/11/13 11:59	1

**Client Sample ID: MW-1-1013**

**Lab Sample ID: 480-47573-2**

**Date Collected: 10/08/13 10:15**

**Matrix: Water**

**Date Received: 10/09/13 12:30**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.047		ug/L		10/10/13 14:46	10/11/13 12:15	1
PCB-1221	ND		0.047		ug/L		10/10/13 14:46	10/11/13 12:15	1
PCB-1232	ND		0.047		ug/L		10/10/13 14:46	10/11/13 12:15	1
PCB-1242	0.15		0.047		ug/L		10/10/13 14:46	10/11/13 12:15	1
PCB-1248	ND		0.047		ug/L		10/10/13 14:46	10/11/13 12:15	1
PCB-1254	ND		0.047		ug/L		10/10/13 14:46	10/11/13 12:15	1
PCB-1260	ND		0.047		ug/L		10/10/13 14:46	10/11/13 12:15	1
Polychlorinated biphenyls, Total	0.15		0.057		ug/L		10/10/13 14:46	10/11/13 12:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	60		32 - 172				10/10/13 14:46	10/11/13 12:15	1
DCB Decachlorobiphenyl	78		18 - 151				10/10/13 14:46	10/11/13 12:15	1

**Client Sample ID: MW-6-1013**

**Lab Sample ID: 480-47573-3**

**Date Collected: 10/08/13 11:00**

**Matrix: Water**

**Date Received: 10/09/13 12:30**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.048		ug/L		10/10/13 14:46	10/11/13 12:31	1
PCB-1221	ND		0.048		ug/L		10/10/13 14:46	10/11/13 12:31	1
PCB-1232	ND		0.048		ug/L		10/10/13 14:46	10/11/13 12:31	1
PCB-1242	ND		0.048		ug/L		10/10/13 14:46	10/11/13 12:31	1
PCB-1248	ND		0.048		ug/L		10/10/13 14:46	10/11/13 12:31	1
PCB-1254	ND		0.048		ug/L		10/10/13 14:46	10/11/13 12:31	1
PCB-1260	ND		0.048		ug/L		10/10/13 14:46	10/11/13 12:31	1
Polychlorinated biphenyls, Total	ND		0.057		ug/L		10/10/13 14:46	10/11/13 12:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	61		32 - 172				10/10/13 14:46	10/11/13 12:31	1
DCB Decachlorobiphenyl	54		18 - 151				10/10/13 14:46	10/11/13 12:31	1

TestAmerica Buffalo

# Client Sample Results

Client: CDM Smith, Inc.  
Project/Site: CDM Smith

TestAmerica Job ID: 480-47573-1

**Client Sample ID: MW-9-1013**

**Lab Sample ID: 480-47573-4**

**Date Collected: 10/08/13 09:30**

**Matrix: Water**

**Date Received: 10/09/13 12:30**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	3.1		0.47		ug/L		10/10/13 14:46	10/13/13 09:57	10
PCB-1221	13		0.47		ug/L		10/10/13 14:46	10/13/13 09:57	10
PCB-1232	ND		0.47		ug/L		10/10/13 14:46	10/13/13 09:57	10
PCB-1242	ND		0.47		ug/L		10/10/13 14:46	10/13/13 09:57	10
PCB-1248	ND		0.47		ug/L		10/10/13 14:46	10/13/13 09:57	10
PCB-1254	ND		0.47		ug/L		10/10/13 14:46	10/13/13 09:57	10
PCB-1260	ND		0.47		ug/L		10/10/13 14:46	10/13/13 09:57	10
Polychlorinated biphenyls, Total	16		0.57		ug/L		10/10/13 14:46	10/13/13 09:57	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	0	X	32 - 172				10/10/13 14:46	10/13/13 09:57	10
DCB Decachlorobiphenyl	100		18 - 151				10/10/13 14:46	10/13/13 09:57	10

**Client Sample ID: MW-11-1013**

**Lab Sample ID: 480-47573-5**

**Date Collected: 10/08/13 08:50**

**Matrix: Water**

**Date Received: 10/09/13 12:30**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.047		ug/L		10/10/13 14:46	10/11/13 13:57	1
PCB-1221	ND		0.047		ug/L		10/10/13 14:46	10/11/13 13:57	1
PCB-1232	ND		0.047		ug/L		10/10/13 14:46	10/11/13 13:57	1
PCB-1242	0.10		0.047		ug/L		10/10/13 14:46	10/11/13 13:57	1
PCB-1248	ND		0.047		ug/L		10/10/13 14:46	10/11/13 13:57	1
PCB-1254	ND		0.047		ug/L		10/10/13 14:46	10/11/13 13:57	1
PCB-1260	ND		0.047		ug/L		10/10/13 14:46	10/11/13 13:57	1
Polychlorinated biphenyls, Total	0.10		0.057		ug/L		10/10/13 14:46	10/11/13 13:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	61		32 - 172				10/10/13 14:46	10/11/13 13:57	1
DCB Decachlorobiphenyl	56		18 - 151				10/10/13 14:46	10/11/13 13:57	1

**Client Sample ID: MW-12-1013**

**Lab Sample ID: 480-47573-6**

**Date Collected: 10/08/13 08:00**

**Matrix: Water**

**Date Received: 10/09/13 12:30**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.047		ug/L		10/10/13 14:46	10/11/13 16:10	1
PCB-1221	ND		0.047		ug/L		10/10/13 14:46	10/11/13 16:10	1
PCB-1232	ND		0.047		ug/L		10/10/13 14:46	10/11/13 16:10	1
PCB-1242	ND		0.047		ug/L		10/10/13 14:46	10/11/13 16:10	1
PCB-1248	ND		0.047		ug/L		10/10/13 14:46	10/11/13 16:10	1
PCB-1254	ND		0.047		ug/L		10/10/13 14:46	10/11/13 16:10	1
PCB-1260	ND		0.047		ug/L		10/10/13 14:46	10/11/13 16:10	1
Polychlorinated biphenyls, Total	ND		0.057		ug/L		10/10/13 14:46	10/11/13 16:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	69		32 - 172				10/10/13 14:46	10/11/13 16:10	1
DCB Decachlorobiphenyl	78		18 - 151				10/10/13 14:46	10/11/13 16:10	1

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# Client Sample Results

Client: CDM Smith, Inc.  
Project/Site: CDM Smith

TestAmerica Job ID: 480-47573-1

**Client Sample ID: MW-20-1013**

**Lab Sample ID: 480-47573-7**

**Date Collected: 10/09/13 08:55**

**Matrix: Water**

**Date Received: 10/09/13 12:30**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.047		ug/L		10/10/13 14:46	10/11/13 16:25	1
PCB-1221	ND		0.047		ug/L		10/10/13 14:46	10/11/13 16:25	1
PCB-1232	ND		0.047		ug/L		10/10/13 14:46	10/11/13 16:25	1
PCB-1242	ND		0.047		ug/L		10/10/13 14:46	10/11/13 16:25	1
PCB-1248	ND		0.047		ug/L		10/10/13 14:46	10/11/13 16:25	1
PCB-1254	ND		0.047		ug/L		10/10/13 14:46	10/11/13 16:25	1
PCB-1260	ND		0.047		ug/L		10/10/13 14:46	10/11/13 16:25	1
Polychlorinated biphenyls, Total	ND		0.057		ug/L		10/10/13 14:46	10/11/13 16:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	65		32 - 172				10/10/13 14:46	10/11/13 16:25	1
DCB Decachlorobiphenyl	85		18 - 151				10/10/13 14:46	10/11/13 16:25	1

**Client Sample ID: MW-21-1013**

**Lab Sample ID: 480-47573-8**

**Date Collected: 10/09/13 09:30**

**Matrix: Water**

**Date Received: 10/09/13 12:30**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.047		ug/L		10/10/13 14:46	10/11/13 16:41	1
PCB-1221	ND		0.047		ug/L		10/10/13 14:46	10/11/13 16:41	1
PCB-1232	ND		0.047		ug/L		10/10/13 14:46	10/11/13 16:41	1
PCB-1242	ND		0.047		ug/L		10/10/13 14:46	10/11/13 16:41	1
PCB-1248	ND		0.047		ug/L		10/10/13 14:46	10/11/13 16:41	1
PCB-1254	ND		0.047		ug/L		10/10/13 14:46	10/11/13 16:41	1
PCB-1260	ND		0.047		ug/L		10/10/13 14:46	10/11/13 16:41	1
Polychlorinated biphenyls, Total	ND		0.057		ug/L		10/10/13 14:46	10/11/13 16:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	62		32 - 172				10/10/13 14:46	10/11/13 16:41	1
DCB Decachlorobiphenyl	69		18 - 151				10/10/13 14:46	10/11/13 16:41	1

**Client Sample ID: MW-24-1013**

**Lab Sample ID: 480-47573-9**

**Date Collected: 10/09/13 08:15**

**Matrix: Water**

**Date Received: 10/09/13 12:30**

## Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.047		ug/L		10/10/13 14:46	10/11/13 16:57	1
PCB-1221	ND		0.047		ug/L		10/10/13 14:46	10/11/13 16:57	1
PCB-1232	ND		0.047		ug/L		10/10/13 14:46	10/11/13 16:57	1
PCB-1242	ND		0.047		ug/L		10/10/13 14:46	10/11/13 16:57	1
PCB-1248	ND		0.047		ug/L		10/10/13 14:46	10/11/13 16:57	1
PCB-1254	ND		0.047		ug/L		10/10/13 14:46	10/11/13 16:57	1
PCB-1260	ND		0.047		ug/L		10/10/13 14:46	10/11/13 16:57	1
Polychlorinated biphenyls, Total	ND		0.056		ug/L		10/10/13 14:46	10/11/13 16:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	57		32 - 172				10/10/13 14:46	10/11/13 16:57	1
DCB Decachlorobiphenyl	75		18 - 151				10/10/13 14:46	10/11/13 16:57	1

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## Surrogate Summary

Client: CDM Smith, Inc.  
Project/Site: CDM Smith

TestAmerica Job ID: 480-47573-1

### Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Matrix: Water

Prep Type: Total/NA

#### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX1 (32-172)	DCB1 (18-151)
480-47573-1	FD-1013	63	75
480-47573-2	MW-1-1013	60	78
480-47573-3	MW-6-1013	61	54
480-47573-3 MS	MW-6-1013	55	57
480-47573-3 MSD	MW-6-1013	60	49
480-47573-4	MW-9-1013	0 X	100
480-47573-5	MW-11-1013	61	56
480-47573-6	MW-12-1013	69	78
480-47573-7	MW-20-1013	65	85
480-47573-8	MW-21-1013	62	69
480-47573-9	MW-24-1013	57	75
LCS 480-144079/2-A	Lab Control Sample	71	75
MB 480-144079/1-A	Method Blank	64	80

#### Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

# QC Sample Results

Client: CDM Smith, Inc.  
Project/Site: CDM Smith

TestAmerica Job ID: 480-47573-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Lab Sample ID: MB 480-144079/1-A

Matrix: Water

Analysis Batch: 144204

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 144079

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.050		ug/L		10/10/13 14:46	10/11/13 07:06	1
PCB-1221	ND		0.050		ug/L		10/10/13 14:46	10/11/13 07:06	1
PCB-1232	ND		0.050		ug/L		10/10/13 14:46	10/11/13 07:06	1
PCB-1242	ND		0.050		ug/L		10/10/13 14:46	10/11/13 07:06	1
PCB-1248	ND		0.050		ug/L		10/10/13 14:46	10/11/13 07:06	1
PCB-1254	ND		0.050		ug/L		10/10/13 14:46	10/11/13 07:06	1
PCB-1260	ND		0.050		ug/L		10/10/13 14:46	10/11/13 07:06	1
Polychlorinated biphenyls, Total	ND		0.060		ug/L		10/10/13 14:46	10/11/13 07:06	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	64		32 - 172	10/10/13 14:46	10/11/13 07:06	1
DCB Decachlorobiphenyl	80		18 - 151	10/10/13 14:46	10/11/13 07:06	1

Lab Sample ID: LCS 480-144079/2-A

Matrix: Water

Analysis Batch: 144204

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 144079

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	1.00	1.08		ug/L		108	50 - 149
PCB-1260	1.00	0.935		ug/L		94	54 - 146

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	71		32 - 172
DCB Decachlorobiphenyl	75		18 - 151

Lab Sample ID: 480-47573-3 MS

Matrix: Water

Analysis Batch: 144204

Client Sample ID: MW-6-1013

Prep Type: Total/NA

Prep Batch: 144079

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	ND		0.946	0.941		ug/L		100	32 - 156
PCB-1260	ND		0.946	0.663		ug/L		70	10 - 140

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene	55		32 - 172
DCB Decachlorobiphenyl	57		18 - 151

Lab Sample ID: 480-47573-3 MSD

Matrix: Water

Analysis Batch: 144204

Client Sample ID: MW-6-1013

Prep Type: Total/NA

Prep Batch: 144079

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		0.945	0.962		ug/L		102	32 - 156	2	50
PCB-1260	ND		0.945	0.664		ug/L		70	10 - 140	0	50

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Tetrachloro-m-xylene	60		32 - 172

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## QC Sample Results

Client: CDM Smith, Inc.  
Project/Site: CDM Smith

TestAmerica Job ID: 480-47573-1

### Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC) (Continued)

Lab Sample ID: 480-47573-3 MSD

Matrix: Water

Analysis Batch: 144204

Client Sample ID: MW-6-1013

Prep Type: Total/NA

Prep Batch: 144079

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl	49		18 - 151

## QC Association Summary

Client: CDM Smith, Inc.  
Project/Site: CDM Smith

TestAmerica Job ID: 480-47573-1

### GC Semi VOA

#### Prep Batch: 144079

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-47573-1	FD-1013	Total/NA	Water	3510C	
480-47573-2	MW-1-1013	Total/NA	Water	3510C	
480-47573-3	MW-6-1013	Total/NA	Water	3510C	
480-47573-3 MS	MW-6-1013	Total/NA	Water	3510C	
480-47573-3 MSD	MW-6-1013	Total/NA	Water	3510C	
480-47573-4	MW-9-1013	Total/NA	Water	3510C	
480-47573-5	MW-11-1013	Total/NA	Water	3510C	
480-47573-6	MW-12-1013	Total/NA	Water	3510C	
480-47573-7	MW-20-1013	Total/NA	Water	3510C	
480-47573-8	MW-21-1013	Total/NA	Water	3510C	
480-47573-9	MW-24-1013	Total/NA	Water	3510C	
LCS 480-144079/2-A	Lab Control Sample	Total/NA	Water	3510C	
MB 480-144079/1-A	Method Blank	Total/NA	Water	3510C	

#### Analysis Batch: 144204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-47573-1	FD-1013	Total/NA	Water	8082A	144079
480-47573-2	MW-1-1013	Total/NA	Water	8082A	144079
480-47573-3	MW-6-1013	Total/NA	Water	8082A	144079
480-47573-3 MS	MW-6-1013	Total/NA	Water	8082A	144079
480-47573-3 MSD	MW-6-1013	Total/NA	Water	8082A	144079
480-47573-4	MW-9-1013	Total/NA	Water	8082A	144079
480-47573-5	MW-11-1013	Total/NA	Water	8082A	144079
480-47573-6	MW-12-1013	Total/NA	Water	8082A	144079
480-47573-7	MW-20-1013	Total/NA	Water	8082A	144079
480-47573-8	MW-21-1013	Total/NA	Water	8082A	144079
480-47573-9	MW-24-1013	Total/NA	Water	8082A	144079
LCS 480-144079/2-A	Lab Control Sample	Total/NA	Water	8082A	144079
MB 480-144079/1-A	Method Blank	Total/NA	Water	8082A	144079

# Lab Chronicle

Client: CDM Smith, Inc.  
Project/Site: CDM Smith

TestAmerica Job ID: 480-47573-1

## Client Sample ID: FD-1013

Date Collected: 10/08/13 00:00

Date Received: 10/09/13 12:30

## Lab Sample ID: 480-47573-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			144079	10/10/13 14:46	JRL	TAL BUF
Total/NA	Analysis	8082A		1	144204	10/11/13 11:59	JMM	TAL BUF

## Client Sample ID: MW-1-1013

Date Collected: 10/08/13 10:15

Date Received: 10/09/13 12:30

## Lab Sample ID: 480-47573-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			144079	10/10/13 14:46	JRL	TAL BUF
Total/NA	Analysis	8082A		1	144204	10/11/13 12:15	JMM	TAL BUF

## Client Sample ID: MW-6-1013

Date Collected: 10/08/13 11:00

Date Received: 10/09/13 12:30

## Lab Sample ID: 480-47573-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			144079	10/10/13 14:46	JRL	TAL BUF
Total/NA	Analysis	8082A		1	144204	10/11/13 12:31	JMM	TAL BUF

## Client Sample ID: MW-9-1013

Date Collected: 10/08/13 09:30

Date Received: 10/09/13 12:30

## Lab Sample ID: 480-47573-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			144079	10/10/13 14:46	JRL	TAL BUF
Total/NA	Analysis	8082A		10	144204	10/13/13 09:57	JMM	TAL BUF

## Client Sample ID: MW-11-1013

Date Collected: 10/08/13 08:50

Date Received: 10/09/13 12:30

## Lab Sample ID: 480-47573-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			144079	10/10/13 14:46	JRL	TAL BUF
Total/NA	Analysis	8082A		1	144204	10/11/13 13:57	JMM	TAL BUF

## Client Sample ID: MW-12-1013

Date Collected: 10/08/13 08:00

Date Received: 10/09/13 12:30

## Lab Sample ID: 480-47573-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			144079	10/10/13 14:46	JRL	TAL BUF
Total/NA	Analysis	8082A		1	144204	10/11/13 16:10	JMM	TAL BUF

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## Lab Chronicle

Client: CDM Smith, Inc.  
Project/Site: CDM Smith

TestAmerica Job ID: 480-47573-1

**Client Sample ID: MW-20-1013**

**Lab Sample ID: 480-47573-7**

**Date Collected: 10/09/13 08:55**

**Matrix: Water**

**Date Received: 10/09/13 12:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			144079	10/10/13 14:46	JRL	TAL BUF
Total/NA	Analysis	8082A		1	144204	10/11/13 16:25	JMM	TAL BUF

**Client Sample ID: MW-21-1013**

**Lab Sample ID: 480-47573-8**

**Date Collected: 10/09/13 09:30**

**Matrix: Water**

**Date Received: 10/09/13 12:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			144079	10/10/13 14:46	JRL	TAL BUF
Total/NA	Analysis	8082A		1	144204	10/11/13 16:41	JMM	TAL BUF

**Client Sample ID: MW-24-1013**

**Lab Sample ID: 480-47573-9**

**Date Collected: 10/09/13 08:15**

**Matrix: Water**

**Date Received: 10/09/13 12:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			144079	10/10/13 14:46	JRL	TAL BUF
Total/NA	Analysis	8082A		1	144204	10/11/13 16:57	JMM	TAL BUF

**Laboratory References:**

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

## Certification Summary

Client: CDM Smith, Inc.  
Project/Site: CDM Smith

TestAmerica Job ID: 480-47573-1

### 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	04-01-14



## Method Summary

Client: CDM Smith, Inc.  
Project/Site: CDM Smith

TestAmerica Job ID: 480-47573-1

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) (GC)	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

## Sample Summary

Client: CDM Smith, Inc.  
Project/Site: CDM Smith

TestAmerica Job ID: 480-47573-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-47573-1	FD-1013	Water	10/08/13 00:00	10/09/13 12:30
480-47573-2	MW-1-1013	Water	10/08/13 10:15	10/09/13 12:30
480-47573-3	MW-6-1013	Water	10/08/13 11:00	10/09/13 12:30
480-47573-4	MW-9-1013	Water	10/08/13 09:30	10/09/13 12:30
480-47573-5	MW-11-1013	Water	10/08/13 08:50	10/09/13 12:30
480-47573-6	MW-12-1013	Water	10/08/13 08:00	10/09/13 12:30
480-47573-7	MW-20-1013	Water	10/09/13 08:55	10/09/13 12:30
480-47573-8	MW-21-1013	Water	10/09/13 09:30	10/09/13 12:30
480-47573-9	MW-24-1013	Water	10/09/13 08:15	10/09/13 12:30

## Detection Limit Exceptions Summary

Client: CDM Smith, Inc.  
Project/Site: CDM Smith

TestAmerica Job ID: 480-47573-1

The requested project specific reporting limits listed below were less than laboratory standard quantitation limits (PQL) but greater than or equal to the laboratory method detection limits (MDL). It must be noted that results reported below lab standard quantitation limits may result in false positive/false negative values and less accurate quantitation. Routine laboratory procedures do not indicate corrective action for detections below the laboratory's PQL.

Method	Matrix	Analyte	Units	Client RL	Lab PQL
8082A	Water	PCB-1016	ug/L	0.050	0.06
8082A	Water	PCB-1221	ug/L	0.050	0.06
8082A	Water	PCB-1232	ug/L	0.050	0.06
8082A	Water	PCB-1242	ug/L	0.050	0.06
8082A	Water	PCB-1248	ug/L	0.050	0.06
8082A	Water	PCB-1254	ug/L	0.050	0.06
8082A	Water	PCB-1260	ug/L	0.050	0.06

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## Login Sample Receipt Checklist

Client: CDM Smith, Inc.

Job Number: 480-47573-1

**Login Number: 47573**

**List Source: TestAmerica Buffalo**

**List Number: 1**

**Creator: Janish, Carl M**

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	CDM
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	