

November 28, 2016

Mr. David Szymanski  
Division of Solid and Hazardous Waste  
NYSDEC, Region 9  
270 Michigan Avenue  
Buffalo, NY 14203-2999

**Re:    *National Grid Dewey/Kensington Service Center (Site #915144)***  
***PRR***

Dear David:

Enclosed for your review is the Periodic Review Report (PRR) for the National Grid Dewey/Kensington Service Center Site (Site No. 915144).

The PRR includes the following from the period November 1, 2015 – November 1, 2016:

- Attachment 1 – PRR
- Attachment 2 – PRR Certification Form

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  
         Devin Shay- Groundwater & Environmental Services, Inc.

## **Periodic Review Report – National Grid Dewey/Kensington Service Center (Site #915144)**

**Reporting Period – November 01, 2015 to November 01, 2016**

### **I. Introduction**

#### **A. Brief Site Summary –**

The National Grid Dewey/Kensington Service Center Site (#915144) is located in Buffalo, New York. National Grid owns the property and services its customers from the active facility. Service trucks, equipment, and materials are stored and maintained on-site. A mechanic's shop, several administrative buildings, an above ground fuel island, and an employee parking lot are currently located on-site and are part of the service center.

Prior to 1992, the service center also served as a hazardous waste management facility permitted by the New York State Department of Environmental Conservation (NYSDEC) (Part 373 Permit No. 9-1402-00397/00001-0). National Grid stored spent electrical transformers containing polychlorinated biphenyl- (PCB-) laden oil, various solid wastes, and bulk waste oils on-site. Some liquid wastes were stored within underground storage tanks (USTs). The hazardous waste management facility was closed in December 1992, in accordance with a NYSDEC-approved closure plan.

During excavation activities in the mid 1990s, it was discovered that soil and groundwater were contaminated near a UST identified as Solid Waste Management Unit (SWMU) #7. Multiple USTs were subsequently removed, and an investigation including the advancement of soil borings and the installation of groundwater monitoring wells was completed. A remedial action was completed in 2002 and a long-term groundwater monitoring program was implemented.

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).

- B. Remedial Program Effectiveness** – During the reporting period (November 01, 2015, to November 01, 2016), the long-term remedial objectives were met for the site.
- C. Remedial Program Compliance** - The major elements within the Institutional Control/Engineering Control(s) (IC/EC) Plan are in compliance. Refer to Attachment 3 for the Annual Monitoring Report for annual groundwater sampling events.

## **Periodic Review Report – National Grid Dewey/Kensington Service Center (Site #915144)**

**Reporting Period – November 01, 2015 to November 01, 2016**

- D. Remedial Program Recommendations** - It is recommended that no changes be made to the IC/EC Plan. It is recommended that the Project Review Report (PRR) submittal frequency (annual) remain the same. The next PRR submittal deadline would be December 1, 2017.

## **II. Site Overview**

### **A. Site Location and Boundaries –**

The Dewey/Kensington Service Center is an active National Grid facility, encompasses approximately 23 acres, and is generally located within the center of Buffalo, New York in a predominantly residential area. To the west are Delaware Park, Canisius College, and Forest Lawn Cemetery; to the east are Fillmore Junior High School and the Erie County Medical Center; immediately to the west are the St. Mary School and Sisters of Charity Hospital; and to the south is a four lane expressway.

The site is bordered to south by Kensington Avenue and to the north by Dewey Avenue. The New York Central Railroad tracks boarder the site to the east. The expressway runs along the western side of the site.

### **B. Regulatory History and Remedy Features –**

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.

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 (VOCs) and polychlorinated biphenyls (PCBs) in groundwater at concentrations above 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, NYSDEC requested

## **Periodic Review Report – National Grid Dewey/Kensington Service Center (Site #915144)**

**Reporting Period – November 01, 2015 to November 01, 2016**

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 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 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 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 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).

### **III. Evaluate Remedy Performance, Effectiveness, and Protectiveness**

- A. **Evaluation of Remedy Performance** - The wells are part of the remedy performance. However, there is no current requirement for a site inspection of the existing facility buildings, fences, or fuel tanks. Based on the well inspections and analytical data, the remedy performance has been effective in protecting facility workers and the public.



**Periodic Review Report – National Grid Dewey/Kensington Service Center (Site #915144)**

**Reporting Period – November 01, 2015 to November 01, 2016**

**IV. IC/EC Plan Compliance Report**

**A. IC/EC Requirements and Compliance**

**1. IC/EC Controls**

The ICs/ECs included:

- Semi-annual groundwater monitoring well inspections of the following wells: 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, MW-25, and ESI-1.
- Semi-annual groundwater monitoring well sampling and analysis of the following wells: MW-1, MW-6, MW-9, MW-11, MW-12, MW-20, MW-21, MW-24.

**2. IC/EC Goals** - Each goal is being met and/or working effectively.

**3. IC/EC Corrective Measures** – No deficiencies were noted during the quarterly inspections.

**4. IC/EC Conclusions/Recommendations** – The program is in compliance and there are no recommendations at this time.

**B. IC/EC Certification** – Refer to PRR Form - Attachment 2 for the certification.

**V. Monitoring Plan Compliance Report** – The Annual Monitoring Report is enclosed as Attachment 3.

**VI. Operation & Maintenance (O&M) Plan Compliance Report** - Not Applicable

**VII. Overall PRR Conclusions and Recommendations**

**A. Compliance with Site Management Plan (SMP)**

**1. Requirements** - All IC/EC Plan requirements were met during this reporting period.

**2. Exposure Pathways** – There are no new completed exposure pathways resulting in unacceptable risk.

**3. Proposed Plans and Schedule to Meet Compliance** – No plan proposed.

**Periodic Review Report – National Grid Dewey/Kensington Service Center (Site #915144)**

**Reporting Period – November 01, 2015 to November 01, 2016**

**B. Performance and Effectiveness of the Remedy** – The remedy as described by the Record of Decision and executed by National Grid has been effective in meeting the program goals.

**C. Future PRR Submittals** – The frequency of PRR Submittals should remain annual. Therefore, the next PRR submittal deadline will be December 1, 2017.

**VIII. Additional Guidance - Not Needed**



Enclosure 2  
**NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION**  
**Site Management Periodic Review Report Notice**  
**Institutional and Engineering Controls Certification Form**



Site Details		Box 1
Site No. 915144		
Site Name Niagara Mohawk Dewey Ave. Service Sta.		
Site Address: 144 Kensington Avenue	Zip Code: 14214	
City/Town: Buffalo		
County: Erie		
Site Acreage:		
Reporting Period: November 01, 2015 to November 01, 2016		
	YES	NO
1. Is the information above correct?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Box 2	
	YES      NO
6. Is the current site use consistent with the use(s) listed below? Commercial and Industrial	<input checked="" type="checkbox"/> <input type="checkbox"/>
7. Are all ICs/ECs in place and functioning as designed?	<input checked="" type="checkbox"/> <input type="checkbox"/>
<b>IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.</b>	
<b>A Corrective Measures Work Plan must be submitted along with this form to address these issues.</b>	
_____ Signature of Owner, Remedial Party or Designated Representative	_____ Date

**SITE NO. 915144**

**Box 3**

**Description of Institutional Controls**

Parcel

Owner

Institutional Control

89.16-1-2

National Grid

Monitoring Plan

O&M Plan

89.16-1-5

National Grid

Monitoring Plan

O&M Plan

**Description of Engineering Controls**

**Box 4**

None Required

Not Applicable/No EC's

**Periodic Review Report (PRR) Certification Statements**

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

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

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

YES NO

☒ ☐

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

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

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

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

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

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

YES NO

☒ ☐

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

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

\_\_\_\_\_  
Signature of Owner, Remedial Party or Designated Representative

\_\_\_\_\_  
Date

**IC CERTIFICATIONS  
SITE NO. 915144**

**Box 6**

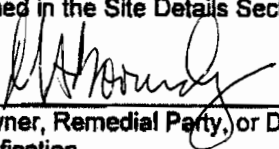
**SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE**

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

I Mark A. Boorady at 5 Technology Place, Suite 4, East Syracuse, NY 13057  
print name print business address

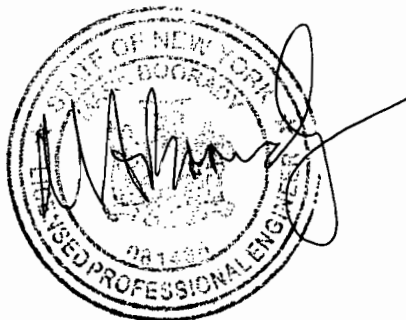
am certifying as Owner's Representative from National Grid (Owner or Remedial Party)

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

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

November 21, 2016

Date



**NO ALTERATION PERMITTED HEREON EXCEPT AS  
PROVIDED UNDER ARTICLE 145 SECTION 7209  
SUBDIVISION 2 OF THE NEW YORK STATE  
EDUCATION LAW.**

November 28, 2016

Mr. David Szymanski  
Division of Solid and Hazardous Waste  
NYSDEC, Region 9  
270 Michigan Avenue  
Buffalo, NY 14203-2999

**Re:    *National Grid Dewey/Kensington Service Center (Site #915144)***  
***2016 Annual Groundwater Monitoring Report***

Dear David:

Enclosed for your review is the Annual groundwater Monitoring Report for the National Grid Dewey/Kensington Service Center Site (Site No. 915144).

The Annual Groundwater Report includes the following from the period November 1, 2015- November 1, 2016:

- Figures: Site Location Map, Site Map, and Groundwater Monitoring Map
- Tables: Groundwater Elevations and Groundwater Analytical Results – Total PCBs
- Appendices: Groundwater Monitoring Field Data and Groundwater Monitoring Laboratory Data

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

cc:    Kelly Lewandowski - NYSDEC  
      Lisa Montesano – NG  
      Devin T. Shay- Groundwater & Environmental Services, Inc.



**Dewey/Kensington Service Center  
144 Kensington Avenue, Buffalo, New York**

## **2016 Annual Groundwater Monitoring Report**



Prepared by:



5 Technology Place, Suite 4  
East Syracuse, New York 13057



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# Section 1

## Introduction

### 1.1 Introduction

This annual report presents the results of the groundwater sampling and analysis activities conducted by CDM Smith and Groundwater and Environmental Services, Inc. (GES) at the National Grid, Dewey/Kensington 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 2016 and October 2016 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 NYSDEC's July 22, 2003 letter, which presents comments on the *2002 Soil Investigation and Spring/Fall 2002 Groundwater Monitoring Report*.

### 1.2 Background and Site Investigation History

The Dewey/Kensington Service Center is an active facility located at 144 Kensington Avenue between Dewey and Kensington Avenues in Buffalo, New York (**Figure 1-1**). The service center previously included a hazardous waste management facility permitted by 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 waste oil tank was subsequently 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 1-2** 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 (VOCs) and polychlorinated biphenyls (PCBs) in groundwater at concentrations above 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, 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 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 NYSDEC to guide future site monitoring and to establish a framework for implementing additional site investigation or remediation. As mandated in the Consent Order, semi-annual (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 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 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 1-2 for well locations. Monitoring well construction details are summarized in **Table 1-1**.

The table below summarizes instances when groundwater samples from two consecutive groundwater sampling events exhibited the presence of constituents in groundwater above TOGS standards and guidance values in the property boundary wells. The table also presents the corresponding NYSDEC-approved contingency plan activities that were conducted in response to such instances.

Consecutive Sampling Events with Property Boundary Well TOGS Standards and Guidance Value Exceedances	Corresponding Contingency Plan Activity
Fall 1997 and Spring 1998: PCBs in groundwater samples collected from 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 groundwater samples collected from 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 groundwater samples collected from monitoring wells MW-9 and MW-14.	Conducted 2002 soil investigation, including advancing 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 non-aqueous phase liquid (LNAPL) in monitoring well ESI-1.

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 Investigation 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. NYSDEC approved the recommendations presented in the 2002 Report (with select modifications) in a July 22, 2003 letter to National Grid. The recommendations, inclusive of NYSDEC's modifications, were as follows:

- 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 VOCs annually. To monitor the conditions downgradient of monitoring well ESI-1, groundwater from monitoring well MW-16 will be sampled and analyzed for VOCs annually. If VOCs 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 National Grid, semi-annual groundwater sampling events will continue. However, both monitoring events will be documented in a single annual report to be submitted in the fall of each year.

## Section 2

# Groundwater Monitoring Activities

## 2.1 Groundwater Well Gauging

For the April 19-20, 2016 and October 19-20, 2016 events, static groundwater levels (presented in Table 1-1) 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). During the October 2016 well gauging event, data was not collected at MW-2 due to staged construction materials on top of the well.

The groundwater flow direction is generally toward the south. Refer to **Figure 2-1** for the general groundwater flow direction.

## 2.2 Groundwater Analytical Results

For the April 2016 and October 2016 events, groundwater samples were analyzed for PCBs. In addition, field measurements of pH, temperature, conductivity, dissolved oxygen, turbidity, and oxidation-reduction potential were obtained prior to sample collection. The groundwater monitoring field data is included in **Appendix A**.

Eight monitoring wells (MW-1, MW-6, MW-9, MW-11, MW-12, MW-20, MW-21, and MW-24) were sampled and analyzed for PCBs during the April 2016 and October 2016 events. 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 parts per billion for total PCBs).

For the April 2016 sampling event, PCBs were detected in two of the eight groundwater samples collected from site groundwater monitoring wells (3.2 parts per billion [ppb] in the sample collected from MW-1, and 11 ppb in the sample collected from MW-9). For the October 2016 sampling event, PCBs were detected in one of the eight groundwater samples collected from site wells (37.4 ppb in the groundwater sample collected from MW-9).

Total PCB results from the groundwater monitoring events are presented in **Table 2-1**. **Appendix B** presents the laboratory analytical reports.

## 2.3 LNAPL Observation

Prior to groundwater purging and sample collection activities, each monitoring well was gauged with an oil/water interface probe to measure the presence or absence of LNAPL. LNAPL was not observed at any of the monitoring wells during the April 2016 or October 2016 events.

## 2.4 Other Operations Maintenance and Monitoring Activities

During each semi-annual groundwater sampling event, 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 Investigation Report (subsequently modified by the NYSDEC's July 22, 2003 response letter); the modified groundwater monitoring program, consisting of semi-annual (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-20 (PCB analysis) ***	MW-17
MW-21 (PCB analysis) ***	MW-19
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.

\*\*\* Monitoring well will be sampled twice a year.

The next semi-annual groundwater monitoring event is scheduled for April 2017. 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) as part of the Periodic Review Report.

## Section 4

# Conclusions and Recommendations

### 4.1 Conclusions

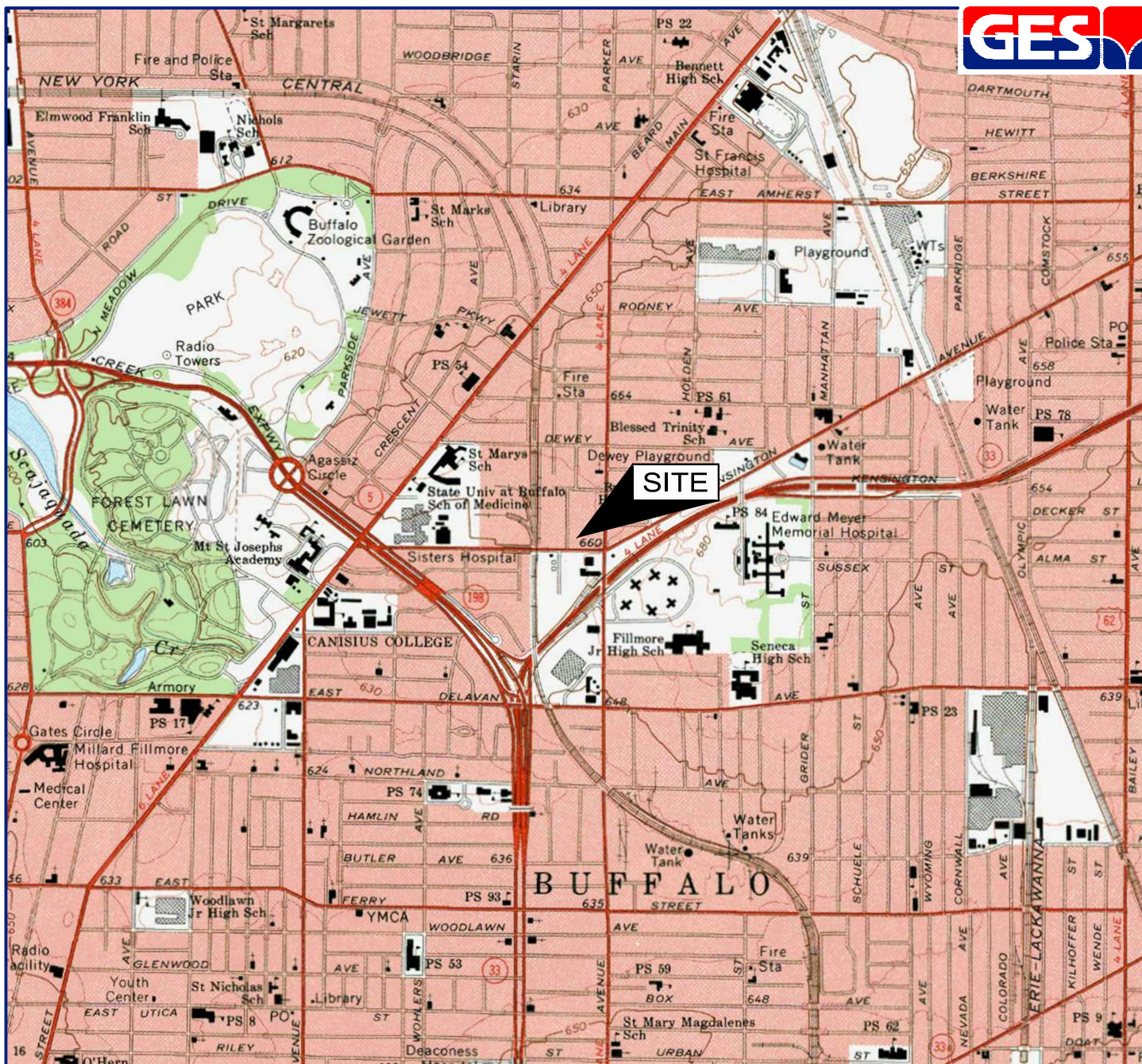
Eight monitoring wells were sampled and analyzed for PCBs during the April 2016 and October 2016 events (MW-1, MW-6, MW-9, MW-11, MW-12, MW-20, MW-21, and MW-24). For the April 2016 sampling event, PCBs were detected in groundwater samples collected from two of the eight site groundwater monitoring wells (MW-1 and MW-9). For the October 2016 sampling event, PCBs were detected in groundwater samples collected from one of the eight site groundwater monitoring wells (MW-9).

### 4.2 Recommendations

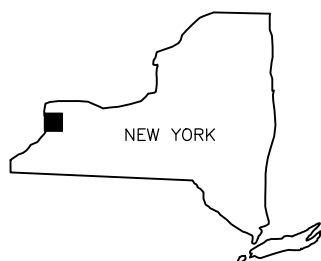
At this time, no changes to the semi-annual site sampling plan are proposed.

## Figures





SOURCE: USGS 7.5 MINUTE SERIES  
TOPOGRAPHIC QUADRANGLE 1965  
BUFFALO NE, NEW YORK  
CONTOUR INTERVAL = 10'



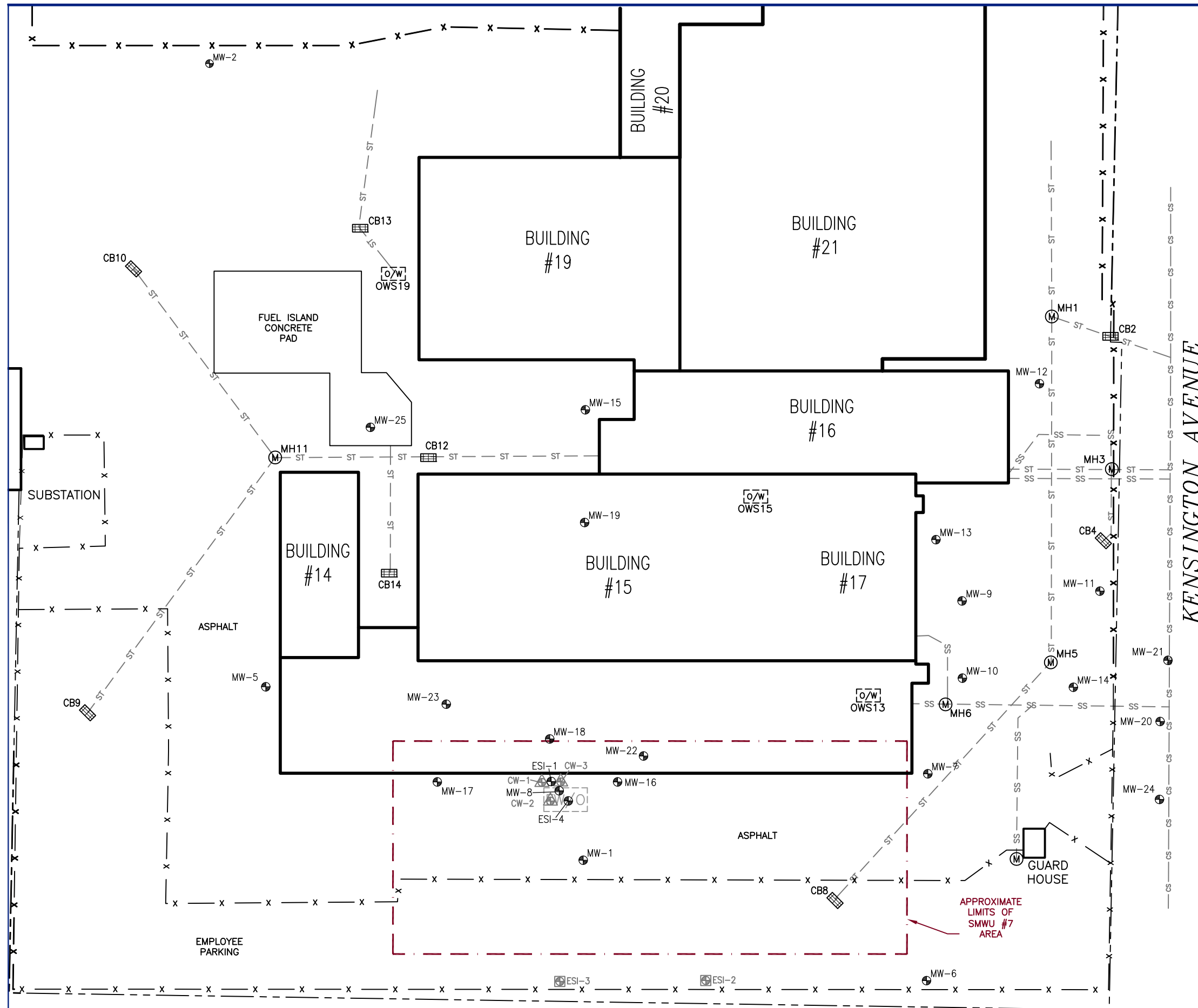
QUADRANGLE LOCATION

DRAFTED BY: W.A.W.	<b>SITE LOCATION MAP</b>		
CHECKED BY:	<b>NATIONAL GRID</b>		
REVIEWED BY:	<b>DEWEY AVENUE SERVICE CENTER</b>		
	<b>93 DEWEY AVENUE</b>		
	<b>BUFFALO, NEW YORK</b>		
NORTH 	Groundwater & Environmental Services, Inc. 5 TECHNOLOGY PLACE, SUITE 4, EAST SYRACUSE, NY 13057		
	SCALE IN FEET 	DATE 11-2-16	FIGURE 1-1



LEGEND

- PROPERTY BOUNDARY
- x - FENCE
- [FW/O] FORMER WASTE OIL TANK
- [O/W] OIL/WATER SEPARATOR
- [CB] CATCH BASIN
- (M) UTILITY MANHOLE
- ⊕ MONITORING WELL
- ⊕ MONITORING WELL (DECOMMISSIONED APRIL 2004)
- ⊕ COLLECTION WELL (DECOMMISSIONED APRIL 2004)
- SS --- UNDERGROUND SANITARY SEWER LINE
- ST --- UNDERGROUND STORM SEWER LINE
- CS --- COMBINED SANITARY & STORM SEWER LINE



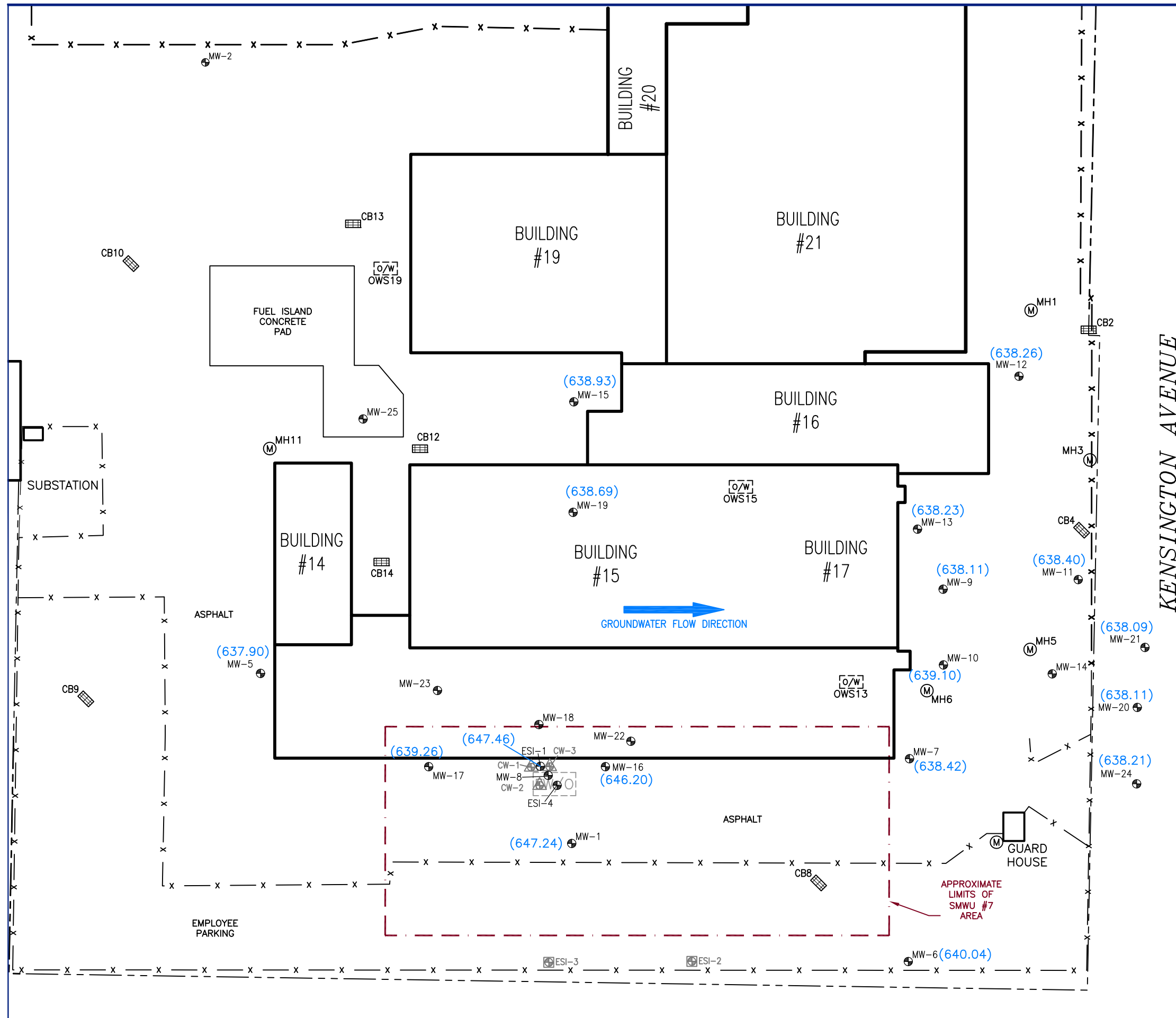
DRAFTED BY: W.G.S.	SITE MAP		
CHECKED BY:	NATIONAL GRID DEWEY AVENUE SERVICE CENTER 93 DEWEY AVENUE BUFFALO, NEW YORK		
REVIEWED BY:	Groundwater & Environmental Services, Inc. 5 TECHNOLOGY PLACE, SUITE 4, EAST SYRACUSE, NY 13057		
NORTH 	SCALE IN FEET  0 APPROXIMATE 60	DATE 11-7-16	FIGURE 1-2





LEGEND

- PROPERTY BOUNDARY
- x - FENCE
- [FW/O] FORMER WASTE OIL TANK
- [O/W] OIL/WATER SEPARATOR
- [CB] CATCH BASIN
- (M) UTILITY MANHOLE
- ⊕ MONITORING WELL
- ⊕ MONITORING WELL (DECOMMISSIONED APRIL 2004)
- ⊕ COLLECTION WELL (DECOMMISSIONED APRIL 2004)
- (647.24) GROUNDWATER ELEVATION (feet)



KENSINGTON AVENUE

DRAFTED BY: W.G.S.	GROUNDWATER MONITORING MAP OCTOBER 19, 2016		
CHECKED BY:	NATIONAL GRID DEWEY AVENUE SERVICE CENTER 93 DEWEY AVENUE BUFFALO, NEW YORK		
REVIEWED BY:	Groundwater & Environmental Services, Inc. 5 TECHNOLOGY PLACE, SUITE 4, EAST SYRACUSE, NY 13057		
NORTH 	SCALE IN FEET 	DATE 11-7-16	FIGURE 2-1
	0 APPROXIMATE 60		

## Tables

Table 1-1: Groundwater Elevations  
National Grid  
Dewey Avenue Service Center  
Buffalo, New York



Well ID	TOC Elevation (ft AMSL)	Depth to Well Bottom (ft BTOC)	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)
MW-1	650.76	29.90	2.85	647.91	3.07	647.69	3.41	647.35	3.30
MW-2	650.55	44.17	*	*	15.26	635.29	12.75	637.80	12.20
MW-5	651.65	21.40	10.68	640.97	11.55	640.10	11.72	639.93	11.25
MW-6	650.25	21.05	6.90	643.35	10.20	640.05	10.10	640.15	9.90
MW-7	650.02	21.30	9.46	640.56	11.56	638.46	11.69	638.33	10.88
MW-9	648.95	22.05	9.70	639.25	10.76	638.19	11.02	637.93	10.58
MW-10	649.46	24.25	9.48	639.98	10.39	639.07	10.88	638.58	10.76
MW-11	647.11	20.22	7.80	639.31	8.76	638.35	8.98	638.13	8.14
MW-12	646.90	19.55	7.60	639.30	8.42	638.48	8.50	638.40	8.24
MW-13	650.05	26.25	10.66	639.39	11.65	638.40	11.95	638.10	11.50
MW-15	651.88	23.80	11.58	640.30	12.81	639.07	13.35	638.53	12.47
MW-16	651.72	20.36	6.45	645.27	5.40	646.32	6.65	645.07	6.50
MW-17	651.76	20.60	11.57	640.19	11.86	639.90	12.80	638.96	12.37
MW-19	651.69	24.00	11.08	640.61	12.82	638.87	13.27	638.42	12.63
MW-20	646.76	22.60	7.55	639.21	8.48	638.28	8.73	638.03	8.82
MW-21	646.70	21.85	7.65	639.05	8.35	638.35	8.80	637.90	8.34
MW-24	647.01	24.25	7.60	639.41	8.53	638.48	8.80	638.21	8.40
ESI-1	651.66	21.50	3.68	647.98	3.94	647.72	4.18	647.48	4.40

**Notes:**

TOC = Top of Well Casing

AMSL = Above Mean Sea Level

DTW = Depth to Water

BTOC = Below Top of Casing

Light non-aqueous phase liquid (LNAPL) observed  
in well ESI-1 only. Numbers in parentheses  
present depths and elevations to LNAPL.

\* = MW-2 is typically inaccessible due to

- = Depth is unknown

Table 1-1: Groundwater Elevations  
National Grid  
Dewey Avenue Service Center  
Buffalo, New York



Well ID	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)	April 2014 DTW (ft BTOC)	April 2014 Potentiometric Surface Elev. (ft AMSL)	October 2014 DTW (ft BTOC)	October 2014 Potentiometric Surface Elev. (ft AMSL)
MW-1	647.46	3.02	647.74	3.23	647.53	3.02	647.74	3.82	646.94
MW-2	638.35	11.62	638.93	11.42	639.13	11.30	639.25	15.40	635.15
MW-5	640.40	10.89	640.76	11.58	640.07	9.62	642.03	12.53	639.12
MW-6	640.35	7.58	642.67	8.25	642.00	7.95	642.30	11.15	639.10
MW-7	639.14	10.31	639.71	11.30	638.72	9.58	640.44	11.98	638.04
MW-9	638.37	10.07	638.88	10.00	638.95	9.75	639.20	11.16	637.79
MW-10	638.70	9.57	639.89	10.51	638.95	10.08	639.38	Not Gauged	Not Gauged
MW-11	638.97	8.12	638.99	8.25	638.86	7.95	639.16	8.80	638.31
MW-12	638.66	7.91	638.99	8.04	638.86	7.73	639.17	8.90	638.00
MW-13	638.55	11.05	639.00	11.31	638.74	10.86	639.19	12.17	637.88
MW-15	639.41	12.21	639.67	12.22	639.66	12.08	639.80	13.62	638.26
MW-16	645.22	5.75	645.97	4.82	646.90	5.55	646.17	6.06	645.66
MW-17	639.39	11.75	640.01	12.45	639.31	11.23	640.53	12.19	639.57
MW-19	639.06	12.26	639.43	12.52	639.17	12.50	639.19	13.56	638.13
MW-20	637.94	7.80	638.96	8.20	638.56	7.80	638.96	9.00	637.76
MW-21	638.36	7.80	638.90	8.20	638.50	7.80	638.90	8.72	637.98
MW-24	638.61	7.90	639.11	8.30	638.71	7.92	639.09	9.13	637.88
ESI-1	647.26	4.00	647.66	4.20	647.46	3.80	647.86	4.60	647.06

**Notes:**

TOC = Top of Well Casing

AMSL = Above Mean Sea Level

DTW = Depth to Water

BTOC = Below Top of Casing

Light non-aqueous phase liquid (LNAPL) observed  
in well ESI-1 only. Numbers in parentheses  
present depths and elevations to LNAPL.

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

- = Depth is unknown

Table 1-1: Groundwater Elevations  
National Grid  
Dewey Avenue Service Center  
Buffalo, New York



Well ID	April 2015 DTW (ft BTOC)	April 2015 Potentiometric Surface Elev. (ft AMSL)	October 2015 DTW (ft BTOC)	October 2015 Potentiometric Surface Elev. (ft AMSL)	April 2016 DTW (ft BTOC)	April 2016 Potentiometric Surface Elev. (ft AMSL)	October 2016 DTW (ft BTOC)	October 2016 Potentiometric Surface Elev. (ft AMSL)
MW-1	2.90	647.86	2.98	647.78	2.82	647.94	3.52	647.24
MW-2	14.60	635.95	13.00	637.55	12.54	638.01	Not Gauged	Not Gauged
MW-5	9.81	641.84	12.92	638.73	10.60	641.05	13.75	637.90
MW-6	8.46	641.79	10.30	639.95	8.85	641.40	10.21	640.04
MW-7	10.30	639.72	11.82	638.20	10.51	639.51	11.60	638.42
MW-9	10.26	638.69	10.70	638.25	10.45	638.50	10.84	638.11
MW-10	10.05	639.41	10.80	638.66	9.92	639.54	10.36	639.10
MW-11	8.23	638.88	8.55	638.56	8.30	638.81	8.71	638.40
MW-12	8.00	638.90	8.41	638.49	8.24	638.66	8.64	638.26
MW-13	11.75	638.30	11.76	638.29	11.46	638.59	11.82	638.23
MW-15	12.50	639.38	13.00	638.88	12.88	639.00	12.95	638.93
MW-16	5.75	645.97	5.25	646.47	6.00	645.72	5.52	646.20
MW-17	10.87	640.89	13.08	638.68	13.05	638.71	12.50	639.26
MW-19	12.49	639.20	13.03	638.66	12.83	638.86	13.00	638.69
MW-20	8.12	638.64	8.22	638.54	8.40	638.36	8.65	638.11
MW-21	8.14	638.56	8.86	637.84	8.28	638.42	8.61	638.09
MW-24	8.22	638.79	8.80	638.21	8.52	638.49	8.80	638.21
ESI-1	3.66	648.00	3.80	647.86	3.55	648.11	4.20	647.46

**Notes:**

TOC = Top of Well Casing

AMSL = Above Mean Sea Level

DTW = Depth to Water

BTOC = Below Top of Casing

Light non-aqueous phase liquid (LNAPL) observed  
in well ESI-1 only. Numbers in parentheses  
present depths and elevations to LNAPL.

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

- = Depth is unknown

Table 2-1: Groundwater Analytical Results - Total PCBs (units in ppb or ug/L)

National Grid  
Dewey Avenue Service Center  
Buffalo, New York



		Well ID							
Date	NYSDEC Value <sup>(1)</sup>	MW-1	MW-6	MW-9	MW-11	MW-12	MW-20	MW-21	MW-24
October 2016	0.09	ND	ND	<b>37.4</b>	ND	ND	ND	ND	ND
April 2016	0.09	<b>3.2</b>	ND	<b>11</b>	ND	ND	ND	ND	ND
October 2015	0.09	<b>9.10</b>	ND	<b>26</b>	ND	ND	0.053	ND	ND
April 2015	0.09	<b>0.8</b>	ND	<b>6.9</b>	ND	ND	ND	ND	ND
October 2014	0.09	<b>0.22</b>	ND	<b>43</b>	ND	ND	ND	ND	ND
April 2014	0.09	<b>2.8</b>	ND	<b>9.4</b>	ND	ND	ND	ND	ND
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 micrograms per liter (ug/L).

Bolded numbers indicate Guidance Value Exceedences



## Appendix A

### Groundwater Monitoring Field Data



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

Spring Semi-Annual Event  
April 19-20, 2016

Well ID.	Sample?	Well Size	DTP	DTW	DTB	Comments
ESI-1	VOC's Fall only	4"	trace on boom	3.55	21.50	changed sorbant boom.
MW-1	yes	4"		2.82	29.90	
MW-2	no	4"		12.54	44.17	
MW-5	no	2"		10.60	21.40	
MW-6	yes	2"		8.85	21.05	MS/MSD
MW-7	no	2"		10.51	21.30	
MW-9	yes	2"		10.45	22.05	
MW-10	no	2"		9.92	24.25	
MW-11	yes	2"		8.30	20.22	
MW-12	yes	2"		8.24	19.55	Duplicate Sample
MW-13	no	2"		11.46	26.25	
MW-15	no	2"		12.88	23.80	
MW-16	VOC's Fall only	2"	trace on probe	6.00	20.36	
MW-17	no	2"		13.05	20.60	
MW-19	no	2"		12.83	24.00	
MW-20	yes	2"		8.40	22.60	
MW-21	yes	2"		8.28	21.85	
MW-24	yes	2"		8.52	24.25	
MW-25	no	2"		6.71	15.36	

Laboratory: Test America  
Amherst, New York

Laboratory: Test America  
Amherst, New York

Sampling Personnel: Tim Beaumont

Job Number: 36380.110154

Well Id. MW-9

Date: 4/19/16

Weather: Cloudy 46

Time In: 9:15

Time Out: 9:50

### Well Information

		TOC	Other
Depth to Water:	(feet)	10.95	
Depth to Bottom:	(feet)	22.05	
Depth to Product:	(feet)	—	
Length of Water Column:	(feet)	11.60	
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) ~ 250  
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)
9:15	11.62		12.24	6.93	-60	19.6	12.2	0
9:20	11.60		12.31	6.89	-74	19.4	6.1	0
9:25	11.58		12.32	6.89	-79	19.4	3.2	0
9:30	11.58		12.34	6.88	-80	19.4	1.9	0
9:35	11.58		12.35	6.89	-81	19.3	.6	0
9:40	11.56		12.35	6.89	-83	19.3	.1	0
9:45	11.56		12.37	6.88	-83	19.3	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-9-0416  
Sample Time: 9:45

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

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

Comments/Notes: no more in sh

Laboratory: Test America  
Amherst, New York

Sampling Personnel: Tim Beaumont

Job Number: 36380.110154

Well Id. **MW-11**

Date: 4/19/16

Weather: cloudy 46°

Time In: 835

Time Out: 9/0

### Well Information

		TOC	Other
Depth to Water:	(feet)	<u>1.30</u>	
Depth to Bottom:	(feet)	<u>20.22</u>	
Depth to Product:	(feet)	<u>-</u>	
Length of Water Column:	(feet)	<u>11.92</u>	
Volume of Water in Well:	(gal)	<u>1.91</u>	
Three Well Volumes:	(gal)	<u>5.73</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) ~250  
 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>835</u>	<u>9.12</u>		<u>11.87</u>	<u>7.35</u>	<u>274</u>	<u>18.6</u>	<u>13.7</u>	<u>3.25</u>
<u>840</u>	<u>9.36</u>		<u>11.46</u>	<u>7.41</u>	<u>273</u>	<u>20.0</u>	<u>12.9</u>	<u>1.96</u>
<u>845</u>	<u>9.49</u>		<u>11.27</u>	<u>7.42</u>	<u>280</u>	<u>20.1</u>	<u>12.8</u>	<u>1.89</u>
<u>850</u>	<u>9.68</u>		<u>11.07</u>	<u>7.42</u>	<u>288</u>	<u>20.3</u>	<u>12.5</u>	<u>1.84</u>
<u>855</u>	<u>9.73</u>		<u>11.02</u>	<u>7.43</u>	<u>292</u>	<u>20.3</u>	<u>12.5</u>	<u>1.80</u>
<u>900</u>	<u>9.80</u>		<u>11.00</u>	<u>7.44</u>	<u>297</u>	<u>20.4</u>	<u>12.1</u>	<u>1.77</u>
<u>905</u>	<u>9.86</u>		<u>10.95</u>	<u>7.44</u>	<u>300</u>	<u>20.5</u>	<u>11.9</u>	<u>1.75</u>

### 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-11-0416  
Sample Time: 905

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

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

Comments/Notes: 10 odu 10 shew

Laboratory: Test America  
Amherst, New York

Sampling Personnel: Tim Beaumont

Job Number: 36380.110154

Well Id. **MW-12**

Date: 4/19/16

Weather: Cloudy 96°

Time In: 750

Time Out: 830

### Well Information

		TOC	Other
Depth to Water:	(feet)	8.24	
Depth to Bottom:	(feet)	19.55	
Depth to Product:	(feet)	—	
Length of Water Column:	(feet)	11.31	
Volume of Water in Well:	(gal)	1.81	
Three Well Volumes:	(gal)	5.43	

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) ~ 250  
 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)
750	9.25		17.3	5.58	316	9.78	3.0	2.15
755	9.32		16.14	6.57	275	10.2	2.7	.97
820	9.35		15.18	6.94	270	10.4	2.3	.81
825	9.37		14.27	7.20	268	10.6	3.2	.60
810	9.38		14.15	7.22	268	10.7	3.0	.51
815	9.38		14.12	7.21	268	10.7	3.1	.46
820	9.40		14.10	7.23	267	10.8	3.0	.42

### 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-12-0416 Duplicate? Yes ☒ No ☐ FD-0416 Shipped: Drop-off ☒ TA Courier ☐  
 Sample Time: 820 MS/MSD? Yes ☐ No ☒ Fed-Ex ☐ UPS ☐

Comments/Notes: MW 820 NO VOL

Laboratory: Test America  
Amherst, New York

Test America  
Amherst, New York



Sampling Personnel: Tim Beaumont

Job Number: 36380.110154

Well Id. **MW-21**

Date: 4/20/16

Weather: Sunny 45

Time In: 905

Time Out: 945

### Well Information

		TOC	Other
Depth to Water:	(feet)	8.28	
Depth to Bottom:	(feet)	21.85	
Depth to Product:	(feet)	-	
Length of Water Column:	(feet)	13.57	
Volume of Water in Well:	(gal)	2.17	
Three Well Volumes:	(gal)	6.57	

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) 250  
 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)
905	9.40		10.42	7.21	-90	13.0	147	.13
910	9.86		10.19	7.15	-92	13.6	68.2	0
915	10.15		10.12	7.05	-23	13.9	47.6	0
920	10.42		10.02	7.04	14	13.9	32.1	0
925	10.57		9.97	7.04	23	14.0	19.3	0
930	10.69		9.95	7.03	30	14.0	12.5	0
935	10.80		9.90	7.03	35	14.0	9.1	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-21-0416  
Sample Time: 935

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

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

Comments/Notes: No show 10:45 AM 4/20/16

Laboratory: Test America  
Amherst, New York

Sampling Personnel: Tim Beaumont

Job Number: 36380.110154

Well Id. MW-24

Date: 4/20/16

Weather: Sunny 75°

Time In: 745

Time Out: 820

### Well Information

		TOC	Other
Depth to Water:	(feet)	8.52	
Depth to Bottom:	(feet)	24.25	
Depth to Product:	(feet)	—	
Length of Water Column:	(feet)	15.73	
Volume of Water in Well:	(gal)	2.52	
Three Well Volumes:	(gal)	7.56	

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) - 250  
 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)
745	8.55		15.00	6.35	-62	8.61	5.7	.30
750	8.52		14.16	6.76	-157	8.69	4.3	0
755	8.52		13.28	6.93	-174	8.88	3.8	.12
800	8.52		12.86	7.01	-185	9.02	4.0	.03
805	8.52		12.78	7.02	-191	9.18	3.6	.03
810	8.52		12.70	7.03	-198	9.25	3.7	0
815	8.52		12.65	7.03	-201	9.29	3.5	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-24-0416  
Sample Time: 815

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

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

Comments/Notes: No Sheen rotten egg odor

Laboratory: Test America  
Amherst, New York

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

Fall Semi-Annual Event  
Date: 10/19/16  
Technician(s): TB

Well ID.	Sample?	Well Size	DTP	DTW	DTB	Comments
ESI-1	VOC's Fall only	4"		470	21.50	Product-Bearing Well. Sorbent Sock Change Required.
MW-1	yes	4"		352	29.90	
MW-2	no	4"		—	44.17	COVERED
MW-5	no	2"		13.75	21.40	
MW-6	yes	2"		10.21	21.05	Collect MS/DMS Samples.
MW-7	no	2"		11.60	21.30	
MW-9	yes	2"		10.84	22.05	
MW-10	no	2"		10.36	24.25	
MW-11	yes	2"		8.71	20.22	
MW-12	yes	2"		8.64	19.55	Collect Field Duplicate Sample.
MW-13	no	2"		11.82	26.25	
MW-15	no	2"		12.95	23.80	
MW-16	VOC's Fall only	2"		552	20.36	Product-Bearing Well.
MW-17	no	2"		12.50	20.60	
MW-19	no	2"		13.08	24.00	
MW-20	yes	2"		8.65	22.60	Well in roadway. Lane closure required.
MW-21	yes	2"		8.61	21.85	Well in roadway. Lane closure required.
MW-24	yes	2"		8.80	24.25	Well in roadway. Lane closure required.
MW-25	no	2"		6.65	15.36	

1400

1450

1355

1205

1215

1058

1105

1015

Sampling Personnel: BS  
Job Number: 06-02882  
Well Id: **MW-1**

Date: 10/19/16  
Weather: Sunny 64°  
Time In: 1330 Time Out:

#### Well Information

		TOC	Other
Depth to Water:	(feet)	<u>352</u>	
Depth to Bottom:	(feet)	<u>29.90</u>	
Depth to Product:	(feet)	<u>-</u>	
Length of Water Column:	(feet)	<u>26.38</u>	
Volume of Water in Well:	(gal)	<u>17.41</u>	
Three Well Volumes:	(gal)	<u>52.23</u>	

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) 400  
Duration of Pumping: (min) 30  
Total Volume Removed: (gal) 3.5 Did well go dry? Yes ☐ No ☒  
YSI 6920 or Horiba U-52 Water Quality Meter Use: 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 (S.U.)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)
<u>1330</u>	<u>3.55</u>		<u>22.25</u>	<u>7.11</u>	<u>-171</u>	<u>15.8</u>	<u>46.0</u>	<u>2.10</u>
<u>1335</u>	<u>3.56</u>		<u>21.50</u>	<u>7.23</u>	<u>-187</u>	<u>15.2</u>	<u>42.1</u>	<u>1.39</u>
<u>1340</u>	<u>3.56</u>		<u>21.32</u>	<u>7.31</u>	<u>-190</u>	<u>15.2</u>	<u>36.1</u>	<u>1.17</u>
<u>1345</u>	<u>3.56</u>		<u>21.26</u>	<u>7.37</u>	<u>-191</u>	<u>15.2</u>	<u>31.7</u>	<u>2.01</u>
<u>1350</u>	<u>3.56</u>		<u>21.25</u>	<u>7.38</u>	<u>-190</u>	<u>15.2</u>	<u>25.6</u>	<u>2.20</u>
<u>1355</u>	<u>3.56</u>		<u>21.21</u>	<u>7.38</u>	<u>-189</u>	<u>15.3</u>	<u>16.2</u>	<u>2.46</u>
<u>1400</u>	<u>3.56</u>		<u>21.20</u>	<u>7.38</u>	<u>-190</u>	<u>15.3</u>	<u>12.1</u>	<u>2.32</u>

#### 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-1-1016  
Sample Time: 1400

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

Shipped: Drop-off ☐ Pace Courier ☐  
Fed-Ex ☐ UPS ☐

Comments/Notes:

Laboratory: PACE Analytical  
Greensburg, PA





Sampling Personnel: NL  
Job Number: 06-02882  
Well Id: **MW-9**

Date: 10/19/16  
Weather: \_\_\_\_\_  
Time In: 1325 Time Out: 1355

Well Information			
		TOC	Other
Depth to Water:	(feet)	<u>10.84</u>	
Depth to Bottom:	(feet)	<u>22.05</u>	
Depth to Product:	(feet)		
Length of Water Column:	(feet)	<u>11.21</u>	
Volume of Water in Well:	(gal)	<u>1.794</u>	
Three Well Volumes:	(gal)	<u>5.381</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				Conversion Factors					
Purging Method:	Bailer <input type="checkbox"/>	Peristaltic <input checked="" type="checkbox"/>	Grundfos Pump <input type="checkbox"/>	other <input type="checkbox"/>	gal/ft. of water	1" ID	2" ID	4" ID	6" ID
Tubing/Bailer Material:	Teflon <input type="checkbox"/>	Stainless St. <input type="checkbox"/>	Polyethylene <input checked="" type="checkbox"/>	other <input type="checkbox"/>					
Sampling Method:	Bailer <input type="checkbox"/>	Peristaltic <input checked="" type="checkbox"/>	Grundfos Pump <input type="checkbox"/>	other <input type="checkbox"/>					
Average Pumping Rate:	(ml/min)	<u>250</u>			1 gallon=3.785L=3785mL=133.7cu. feet				
Duration of Pumping:	(min)	<u>30</u>							
Total Volume Removed:	(gal)	<u>2</u>	Did well go dry?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>					
YSI 6920 or Horiba U-52 Water Quality Meter Use				Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					

Time	DTW (feet)	Amount purged (gal)	Temp °C	pH (S.U.)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)
<u>1325</u>	<u>10.84</u>		<u>26.60</u>	<u>7.41</u>	<u>-172</u>	<u>6.31</u>	<u>6.5</u>	<u>2.94</u>
<u>1330</u>	<u>11.80</u>		<u>21.08</u>	<u>7.35</u>	<u>-217</u>	<u>6.51</u>	<u>2.2</u>	<u>2.31</u>
<u>1335</u>	<u>11.92</u>		<u>20.13</u>	<u>7.33</u>	<u>-264</u>	<u>6.50</u>	<u>0.0</u>	<u>1.35</u>
<u>1340</u>	<u>11.93</u>		<u>19.96</u>	<u>7.34</u>	<u>-272</u>	<u>6.46</u>	<u>0.0</u>	<u>1.29</u>
<u>1345</u>	<u>11.93</u>		<u>19.97</u>	<u>7.34</u>	<u>-278</u>	<u>6.48</u>	<u>0.0</u>	<u>1.21</u>
<u>1350</u>	<u>11.99</u>		<u>19.61</u>	<u>7.33</u>	<u>-280</u>	<u>7.37</u>	<u>0.0</u>	<u>1.14</u>
<u>1355</u>	<u>11.99</u>		<u>19.58</u>	<u>7.35</u>	<u>-285</u>	<u>6.66</u>	<u>0.0</u>	<u>1.13</u>

Sampling Information:			
EPA SW-846 Method 8082	PCB's	Low detection limit of 0.05 ppb	2 - 1 liter amber
EPA SW-846 Method 8260	TCL VOC's	Including Naphthalene	2 - 40 mL vials
Sample ID: <u>MW-9-1016</u>	Duplicate? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Shipped: Drop-off <input type="checkbox"/> Pace Courier <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Sample Time: <u>1355</u>	MS/DMS? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Fed-Ex <input type="checkbox"/> UPS <input type="checkbox"/>	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Comments/Notes: _____		Laboratory: <u>PACE Analytical Greensburg, PA</u>	



Sampling Personnel: NV  
Job Number: 06-02882  
Well Id. **MW-11**

Date: 10-19-16  
Weather:  
Time In: 1135 Time Out: 1205

Well Information		
	TOC	Other
Depth to Water: (feet)	<u>8.71</u>	
Depth to Bottom: (feet)	<u>20.22</u>	
Depth to Product: (feet)		
Length of Water Column: (feet)	<u>11.51</u>	
Volume of Water in Well: (gal)	<u>1.842</u>	
Three Well Volumes: (gal)	<u>5.524</u>	

Well Type:	Flushmount <input checked="" type="checkbox"/>	Stick-Up <input type="checkbox"/>
Well Locked:	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Measuring Point Marked:	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Well Material:	PVC <input checked="" type="checkbox"/> SS <input type="checkbox"/>	Other: <input type="text"/>
Well Diameter:	1" <input type="checkbox"/> 2" <input checked="" type="checkbox"/>	Other: <input type="text"/>
Comments:		

Purging Information			
Purging Method:	Bailer <input type="checkbox"/>	Peristaltic <input checked="" type="checkbox"/>	Grundfos Pump <input type="checkbox"/>
Tubing/Bailer Material:	Teflon <input type="checkbox"/>	Stainless St. <input type="checkbox"/>	Polyethylene <input checked="" type="checkbox"/>
Sampling Method:	Bailer <input type="checkbox"/>	Peristaltic <input checked="" type="checkbox"/>	Grundfos Pump <input type="checkbox"/>
Average Pumping Rate: (ml/min)	<u>250</u>	<u>↓ @ 1045</u>	
Duration of Pumping: (min)	<u>30</u>		
Total Volume Removed: (gal)	<u>2</u>	Did well go dry? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
YSI 6920 or Horiba U-52 Water Quality Meter Use Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			

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 (S.U.)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)
1135	8.71		19.50	7.5	-34	6.15	32.7	3.43
1140	9.95		18.98	7.49	-32	6.06	3.1	2.22
1145	10.75		19.01	7.48	-35	6.05	6.1	1.53
1150	10.85		18.99	7.48	-33	6.04	0.0	1.39
1155	10.87		18.95	7.48	-31	6.03	0.0	1.28
1200	10.91		18.93	7.48	-28	6.02	0.0	1.22
1205	10.83		18.96	7.47	-22	6.01	0.0	1.40

Sampling Information:			
EPA SW-846 Method 8082	PCB's	Low detection limit of 0.05 ppb	2 - 1 liter amber Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
EPA SW-846 Method 8260	TCL VOC's	Including Naphthalene	2 - 40 mL vials Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Sample ID: <b>MW-11-1016</b>	Duplicate? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Shipped: Drop-off <input type="checkbox"/> Pace Courier <input type="checkbox"/>	
Sample Time: <u>1205</u>	MS/DMS? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Fed-Ex <input type="checkbox"/> UPS <input type="checkbox"/>	
Comments/Notes:		Laboratory: <b>PACE Analytical Greensburg, PA</b>	

Sampling Personnel: TB  
Job Number: 06-02882  
Well Id. MW-12

Date: 10/19/76  
Weather: Sunny 60  
Time In: 1145 Time Out: \_\_\_\_\_

Well Information		
	TOC	Other
Depth to Water: (feet)	<u>864</u>	
Depth to Bottom: (feet)	<u>19.55</u>	
Depth to Product: (feet)	<u>-</u>	
Length of Water Column: (feet)	<u>10.91</u>	
Volume of Water in Well: (gal)	<u>1.75</u>	
Three Well Volumes: (gal)	<u>525</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 <input type="checkbox"/> Peristaltic <input checked="" type="checkbox"/> Grundfos Pump <input type="checkbox"/> other <input type="checkbox"/>	
Tubing/Bailer Material:	Teflon <input type="checkbox"/> Stainless St. <input type="checkbox"/> Polyethylene <input checked="" type="checkbox"/> other <input type="checkbox"/>	
Sampling Method:	Bailer <input type="checkbox"/> Peristaltic <input checked="" type="checkbox"/> Grundfos Pump <input type="checkbox"/> other <input type="checkbox"/>	
Average Pumping Rate: (ml/min)	<u>1250</u> ↓	
Duration of Pumping: (min)	<u>30</u>	
Total Volume Removed: (gal)	<u>2.0</u>	Did well go dry? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
YSI 6920 or Horiba U-52 Water Quality Meter Use: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		

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 (S.U.)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)
1145	9.60		20.39	7.33	21	3.24	6.2	2.19
1150	9.78		19.75	7.39	24	3.20	1.2	1.16
1155	9.85		19.59	7.41	22	3.19	1.6	1.09
1200	9.86		19.60	7.42	19	3.18	1.6	.97
1205	9.86		19.55	7.43	16	3.18	1.2	.90
1210	9.86		19.51	7.42	15	3.17	.9	.87
1215	9.86		19.48	7.43	13	3.17	1.0	.88

Sampling Information:			
EPA SW-846 Method 8082	PCB's	Low detection limit of 0.05 ppb	4 - 1 liter amber
EPA SW-846 Method 8260	TCL VOC's	Including Naphthalene	2 - 40 mL vials
"Field Duplicate-1016"			
Sample ID: <u>MW-12-1016</u>	Duplicate? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Shipped: Drop-off <input type="checkbox"/> Pace Courier <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Sample Time: <u>1215</u>	MS/DMS? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Fed-Ex <input type="checkbox"/> UPS <input type="checkbox"/>	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Comments/Notes: _____		Laboratory: PACE Analytical Greensburg, PA	



Sampling Personnel: NL  
Job Number: 06-02882  
Well Id. MW-20

Date: 10/19/16  
Weather: Sunny 12  
Time In: 10:28 Time Out: \_\_\_\_\_

Well Information		TOC	Other
Depth to Water:	(feet)	<u>8.65</u>	
Depth to Bottom:	(feet)	<u>22.60</u>	
Depth to Product:	(feet)		
Length of Water Column:	(feet)	<u>13.95</u>	
Volume of Water in Well:	(gal)	<u>2.232</u>	
Three Well Volumes:	(gal)	<u>6.696</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) 250 ml/min  
Duration of Pumping: (min) 30  
Total Volume Removed: (gal) 2.0 gal Did well go dry? Yes ☐ No ☒  
YSI 6920 or Horiba U-52 Water Quality Meter Usr 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 (S.U.)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)
<u>1028</u>	<u>8.65</u>		<u>22.01</u>	<u>5.37</u>	<u>56</u>	<u>9.97</u>	<u>1000</u>	<u>6.41</u>
<u>1033</u>	<u>8.74</u>		<u>12.31</u>	<u>7.06</u>	<u>-173</u>	<u>10.50</u>	<u>122</u>	<u>1.48</u>
<u>1038</u>	<u>8.76</u>		<u>17.22</u>	<u>7.10</u>	<u>-199</u>	<u>10.3</u>	<u>26.0</u>	<u>1.31</u>
<u>1043</u>	<u>8.77</u>		<u>17.15</u>	<u>7.12</u>	<u>-217</u>	<u>10.2</u>	<u>14.7</u>	<u>1.27</u>
<u>1048</u>	<u>8.77</u>		<u>17.11</u>	<u>7.13</u>	<u>-233</u>	<u>10.1</u>	<u>3.2</u>	<u>1.13</u>
<u>1053</u>	<u>8.80</u>		<u>17.12</u>	<u>7.13</u>	<u>-244</u>	<u>10.1</u>	<u>1.0</u>	<u>1.09</u>
<u>1058</u>	<u>8.80</u>		<u>17.09</u>	<u>7.13</u>	<u>-248</u>	<u>10.1</u>	<u>0.4</u>	<u>1.08</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-20-1016 Duplicate? Yes ☐ No ☒ Shipped: Drop-off ☐ Pace Courier ☐  
Sample Time: 1058 MS/DMS? Yes ☐ No ☒ Fed-Ex ☐ UPS ☐  
Comments/Notes: \_\_\_\_\_ Laboratory: PACE Analytical Greensburg, PA

Sampling Personnel: TB  
Job Number: 06-02882  
Well Id. MW-21

Date: 10/19/16  
Weather: Sunny 56°  
Time In: 1035 Time Out: \_\_\_\_\_

Well Information			
		TOC	Other
Depth to Water:	(feet)	<u>861</u>	
Depth to Bottom:	(feet)	<u>21.85</u>	
Depth to Product:	(feet)	<u>-</u>	
Length of Water Column:	(feet)	<u>13.24</u>	
Volume of Water in Well:	(gal)	<u>2.12</u>	
Three Well Volumes:	(gal)	<u>6.36</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				Conversion Factors			
Purging Method:	Bailer <input type="checkbox"/>	Peristaltic <input checked="" type="checkbox"/>	Grundfos Pump <input type="checkbox"/>	other <input type="checkbox"/>	gal/ft.	1" ID	2" ID
Tubing/Bailer Material:	Teflon <input type="checkbox"/>	Stainless St. <input type="checkbox"/>	Polyethylene <input checked="" type="checkbox"/>	other <input type="checkbox"/>	of	4" ID	6" ID
Sampling Method:	Bailer <input type="checkbox"/>	Peristaltic <input checked="" type="checkbox"/>	Grundfos Pump <input type="checkbox"/>	other <input type="checkbox"/>	water	0.04	0.16
Average Pumping Rate:	(ml/min)	<u>~250</u>				0.66	1.47
Duration of Pumping:	(min)				1 gallon=3.785L=3785mL=133.7cu. feet		
Total Volume Removed:	(gal)		Did well go dry?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>			
YSI 6920 or Horiba U-52 Water Quality Meter Us				Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			

Time	DTW (feet)	Amount purged (gal)	Temp °C	pH (S.U.)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)
<u>1035</u>	<u>8.62</u>		<u>17.83</u>	<u>7.45</u>	<u>-104</u>	<u>3.81</u>	<u>3.3</u>	<u>2.67</u>
<u>1040</u>	<u>9.91</u>		<u>17.62</u>	<u>7.36</u>	<u>-99</u>	<u>3.76</u>	<u>2.8</u>	<u>1.93</u>
<u>1045</u>	<u>10.22</u>		<u>17.64</u>	<u>7.28</u>	<u>-95</u>	<u>3.65</u>	<u>2.6</u>	<u>1.39</u>
<u>1050</u>	<u>10.52</u>		<u>17.68</u>	<u>7.25</u>	<u>-93</u>	<u>3.63</u>	<u>2.0</u>	<u>1.15</u>
<u>1055</u>	<u>10.60</u>		<u>17.70</u>	<u>7.24</u>	<u>-96</u>	<u>3.61</u>	<u>1.6</u>	<u>1.09</u>
<u>1100</u>	<u>10.64</u>		<u>17.72</u>	<u>7.24</u>	<u>-97</u>	<u>3.60</u>	<u>1.4</u>	<u>1.04</u>
<u>1105</u>	<u>10.67</u>		<u>17.73</u>	<u>7.24</u>	<u>-98</u>	<u>3.60</u>	<u>.9</u>	<u>1.02</u>

Sampling Information:			
EPA SW-846 Method 8082	PCB's	Low detection limit of 0.05 ppb	2 - 1 liter amber
EPA SW-846 Method 8260	TCL VOC's	Including Naphthalene	2 - 40 mL vials
Sample ID: <u>MW-21-1016</u>	Duplicate?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Shipped: Drop-off <input type="checkbox"/> Pace Courier <input type="checkbox"/>
Sample Time: <u>1105</u>	MS/DMS?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Fed-Ex <input type="checkbox"/> UPS <input type="checkbox"/>
Comments/Notes:		Laboratory: <u>PACE Analytical Greensburg, PA</u>	



Sampling Personnel: TB  
Job Number: 06-02882  
Well Id: MW-24

Date: 10/19/16  
Weather: Sunny 54°  
Time In: 9:45 Time Out: \_\_\_\_\_

Well Information			TOC	Other
Depth to Water:	(feet)	<u>8.80</u>		
Depth to Bottom:	(feet)	<u>24.25</u>		
Depth to Product:	(feet)			
Length of Water Column:	(feet)	<u>15.45</u>		
Volume of Water in Well:	(gal)	<u>2.472</u>		
Three Well Volumes:	(gal)	<u>7.416</u>		

Well Type:	Flushmount <input checked="" type="checkbox"/>	Stick-Up <input type="checkbox"/>
Well Locked:	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Measuring Point Marked:	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Well Material:	PVC <input checked="" type="checkbox"/> SS <input type="checkbox"/>	Other: _____
Well Diameter:	1" <input type="checkbox"/> 2" <input checked="" type="checkbox"/>	Other: _____
Comments: _____		

Purging Information				Conversion Factors					
Purging Method:	Bailer <input type="checkbox"/>	Peristaltic <input checked="" type="checkbox"/>	Grundfos Pump <input type="checkbox"/>	other <input type="checkbox"/>	gal/ft.	1" ID	2" ID	4" ID	6" ID
Tubing/Bailer Material:	Teflon <input type="checkbox"/>	Stainless St. <input type="checkbox"/>	Polyethylene <input checked="" type="checkbox"/>	other <input type="checkbox"/>	of				
Sampling Method:	Bailer <input type="checkbox"/>	Peristaltic <input checked="" type="checkbox"/>	Grundfos Pump <input type="checkbox"/>	other <input type="checkbox"/>	water	0.04	0.16	0.66	1.47
Average Pumping Rate:	(ml/min)	<u>250 ml/min</u>			1 gallon=3.785L=3785mL=133.7cu. feet				
Duration of Pumping:	(min)	<u>30</u>							
Total Volume Removed:	(gal)	<u>2.0</u>	Did well go dry?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>					
YSI 6920 or Horiba U-52 Water Quality Meter Used				Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					

Time	DTW (feet)	Amount purged (gal)	Temp °C	pH (S.U.)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)
9:45	8.88		18.46	6.04	-79	9.95	1.3	2.42
9:50	8.88		17.42	6.80	-164	10.1	1.5	1.40
10:05	8.87		17.19	6.99	-189	10.2	0.9	1.50
10:10	8.88		17.12	7.07	-206	10.3	0.6	1.54
10:15	8.88		17.08	7.13	-222	10.4	0.5	1.50
10:10	8.88		17.08	7.16	-231	10.4	0.4	1.51
10:15	8.88		17.00	7.18	-241	10.4	0.4	1.71

Sampling Information:			
EPA SW-846 Method 8082	PCB's	Low detection limit of 0.05 ppb	2 - 1 liter amber
EPA SW-846 Method 8260	TCL VOC's	Including Naphthalene	2 - 40 mL vials
Sample ID: <u>MW-24-1016</u>	Duplicate?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Shipped: Drop-off <input type="checkbox"/> Pace Courier <input type="checkbox"/>
Sample Time: <u>10:15</u>	MS/DMS?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Fed-Ex <input type="checkbox"/> UPS <input type="checkbox"/>
Comments/Notes: _____		Laboratory: <u>PACE Analytical</u> <u>Greensburg, PA</u>	

## Appendix B

### 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: 480-98672-1

Client Project/Site: Dewey Ave semi-annual GW Wells

For:

CDM Smith, Inc.

6800 Old Collamer Road

Suite 3

East Syracuse, New York 13057

Attn: Matthew Millias



Authorized for release by:

4/22/2016 3:45:25 PM

Becky Mason, Project Manager II

(413)572-4000

[becky.mason@testamericainc.com](mailto:becky.mason@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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## Definitions/Glossary

Client: CDM Smith, Inc.  
Project/Site: Dewey Ave semi-annual GW Wells

TestAmerica Job ID: 480-98672-1

### Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, 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: Dewey Ave semi-annual GW Wells

TestAmerica Job ID: 480-98672-1

**Job ID: 480-98672-1**

**Laboratory: TestAmerica Buffalo**

### Narrative

#### Job Narrative 480-98672-1

#### Receipt

The samples were received on 4/20/2016 11:05 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.6° C and 3.0° C.

#### GC Semi VOA

Method 8082A: The following samples were diluted due to the abundance of target analytes: MW-1-0416 (480-98672-1) and MW-9-0416 (480-98672-3). Elevated reporting limits (RLs) are provided.

Method 8082A: All primary data for analytical batch 297487 was reported from the ZB-35 column.

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

#### Organic Prep

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



## Detection Summary

Client: CDM Smith, Inc.  
Project/Site: Dewey Ave semi-annual GW Wells

TestAmerica Job ID: 480-98672-1

### Client Sample ID: MW-1-0416

### Lab Sample ID: 480-98672-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1016	3.2		0.094		ug/L	2		8082A	Total/NA
Polychlorinated biphenyls, Total	3.2		0.11		ug/L	2		8082A	Total/NA

### Client Sample ID: MW-6-0416

### Lab Sample ID: 480-98672-2

No Detections.

### Client Sample ID: MW-9-0416

### Lab Sample ID: 480-98672-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1232	11		0.24		ug/L	5		8082A	Total/NA
Polychlorinated biphenyls, Total	11		0.28		ug/L	5		8082A	Total/NA

### Client Sample ID: MW-11-0416

### Lab Sample ID: 480-98672-4

No Detections.

### Client Sample ID: MW-12-0416

### Lab Sample ID: 480-98672-5

No Detections.

### Client Sample ID: MW-20-0416

### Lab Sample ID: 480-98672-6

No Detections.

### Client Sample ID: MW-21-0416

### Lab Sample ID: 480-98672-7

No Detections.

### Client Sample ID: MW-24-0416

### Lab Sample ID: 480-98672-8

No Detections.

### Client Sample ID: FD-0416

### Lab Sample ID: 480-98672-9

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

# Client Sample Results

Client: CDM Smith, Inc.  
Project/Site: Dewey Ave semi-annual GW Wells

TestAmerica Job ID: 480-98672-1

**Client Sample ID: MW-1-0416**

**Date Collected: 04/19/16 10:30**

**Date Received: 04/20/16 11:05**

**Lab Sample ID: 480-98672-1**

**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	3.2		0.094		ug/L		04/21/16 07:29	04/21/16 18:33	2
PCB-1221	ND		0.094		ug/L		04/21/16 07:29	04/21/16 18:33	2
PCB-1232	ND		0.094		ug/L		04/21/16 07:29	04/21/16 18:33	2
PCB-1242	ND		0.094		ug/L		04/21/16 07:29	04/21/16 18:33	2
PCB-1248	ND		0.094		ug/L		04/21/16 07:29	04/21/16 18:33	2
PCB-1254	ND		0.094		ug/L		04/21/16 07:29	04/21/16 18:33	2
PCB-1260	ND		0.094		ug/L		04/21/16 07:29	04/21/16 18:33	2
Polychlorinated biphenyls, Total	3.2		0.11		ug/L		04/21/16 07:29	04/21/16 18:33	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	68		25 - 151				04/21/16 07:29	04/21/16 18:33	2
DCB Decachlorobiphenyl	49		10 - 158				04/21/16 07:29	04/21/16 18:33	2

**Client Sample ID: MW-6-0416**

**Date Collected: 04/19/16 11:15**

**Date Received: 04/20/16 11:05**

**Lab Sample ID: 480-98672-2**

**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.047		ug/L		04/21/16 07:29	04/21/16 18:49	1
PCB-1221	ND		0.047		ug/L		04/21/16 07:29	04/21/16 18:49	1
PCB-1232	ND		0.047		ug/L		04/21/16 07:29	04/21/16 18:49	1
PCB-1242	ND		0.047		ug/L		04/21/16 07:29	04/21/16 18:49	1
PCB-1248	ND		0.047		ug/L		04/21/16 07:29	04/21/16 18:49	1
PCB-1254	ND		0.047		ug/L		04/21/16 07:29	04/21/16 18:49	1
PCB-1260	ND		0.047		ug/L		04/21/16 07:29	04/21/16 18:49	1
Polychlorinated biphenyls, Total	ND		0.057		ug/L		04/21/16 07:29	04/21/16 18:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	76		25 - 151				04/21/16 07:29	04/21/16 18:49	1
DCB Decachlorobiphenyl	72		10 - 158				04/21/16 07:29	04/21/16 18:49	1

**Client Sample ID: MW-9-0416**

**Date Collected: 04/19/16 09:45**

**Date Received: 04/20/16 11:05**

**Lab Sample ID: 480-98672-3**

**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.24		ug/L		04/21/16 07:29	04/21/16 19:04	5
PCB-1221	ND		0.24		ug/L		04/21/16 07:29	04/21/16 19:04	5
PCB-1232	11		0.24		ug/L		04/21/16 07:29	04/21/16 19:04	5
PCB-1242	ND		0.24		ug/L		04/21/16 07:29	04/21/16 19:04	5
PCB-1248	ND		0.24		ug/L		04/21/16 07:29	04/21/16 19:04	5
PCB-1254	ND		0.24		ug/L		04/21/16 07:29	04/21/16 19:04	5
PCB-1260	ND		0.24		ug/L		04/21/16 07:29	04/21/16 19:04	5
Polychlorinated biphenyls, Total	11		0.28		ug/L		04/21/16 07:29	04/21/16 19:04	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	90		25 - 151				04/21/16 07:29	04/21/16 19:04	5
DCB Decachlorobiphenyl	47		10 - 158				04/21/16 07:29	04/21/16 19:04	5

TestAmerica Buffalo

# Client Sample Results

Client: CDM Smith, Inc.  
Project/Site: Dewey Ave semi-annual GW Wells

TestAmerica Job ID: 480-98672-1

**Client Sample ID: MW-11-0416**

**Date Collected: 04/19/16 09:05**

**Date Received: 04/20/16 11:05**

**Lab Sample ID: 480-98672-4**

**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.047		ug/L		04/21/16 07:29	04/21/16 19:19	1
PCB-1221	ND		0.047		ug/L		04/21/16 07:29	04/21/16 19:19	1
PCB-1232	ND		0.047		ug/L		04/21/16 07:29	04/21/16 19:19	1
PCB-1242	ND		0.047		ug/L		04/21/16 07:29	04/21/16 19:19	1
PCB-1248	ND		0.047		ug/L		04/21/16 07:29	04/21/16 19:19	1
PCB-1254	ND		0.047		ug/L		04/21/16 07:29	04/21/16 19:19	1
PCB-1260	ND		0.047		ug/L		04/21/16 07:29	04/21/16 19:19	1
Polychlorinated biphenyls, Total	ND		0.056		ug/L		04/21/16 07:29	04/21/16 19:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	76		25 - 151				04/21/16 07:29	04/21/16 19:19	1
DCB Decachlorobiphenyl	68		10 - 158				04/21/16 07:29	04/21/16 19:19	1

**Client Sample ID: MW-12-0416**

**Date Collected: 04/19/16 08:20**

**Date Received: 04/20/16 11:05**

**Lab Sample ID: 480-98672-5**

**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.047		ug/L		04/21/16 07:29	04/21/16 19:35	1
PCB-1221	ND		0.047		ug/L		04/21/16 07:29	04/21/16 19:35	1
PCB-1232	ND		0.047		ug/L		04/21/16 07:29	04/21/16 19:35	1
PCB-1242	ND		0.047		ug/L		04/21/16 07:29	04/21/16 19:35	1
PCB-1248	ND		0.047		ug/L		04/21/16 07:29	04/21/16 19:35	1
PCB-1254	ND		0.047		ug/L		04/21/16 07:29	04/21/16 19:35	1
PCB-1260	ND		0.047		ug/L		04/21/16 07:29	04/21/16 19:35	1
Polychlorinated biphenyls, Total	ND		0.057		ug/L		04/21/16 07:29	04/21/16 19:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	73		25 - 151				04/21/16 07:29	04/21/16 19:35	1
DCB Decachlorobiphenyl	71		10 - 158				04/21/16 07:29	04/21/16 19:35	1

**Client Sample ID: MW-20-0416**

**Date Collected: 04/19/16 08:55**

**Date Received: 04/20/16 11:05**

**Lab Sample ID: 480-98672-6**

**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.047		ug/L		04/21/16 07:29	04/21/16 19:50	1
PCB-1221	ND		0.047		ug/L		04/21/16 07:29	04/21/16 19:50	1
PCB-1232	ND		0.047		ug/L		04/21/16 07:29	04/21/16 19:50	1
PCB-1242	ND		0.047		ug/L		04/21/16 07:29	04/21/16 19:50	1
PCB-1248	ND		0.047		ug/L		04/21/16 07:29	04/21/16 19:50	1
PCB-1254	ND		0.047		ug/L		04/21/16 07:29	04/21/16 19:50	1
PCB-1260	ND		0.047		ug/L		04/21/16 07:29	04/21/16 19:50	1
Polychlorinated biphenyls, Total	ND		0.057		ug/L		04/21/16 07:29	04/21/16 19:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	71		25 - 151				04/21/16 07:29	04/21/16 19:50	1
DCB Decachlorobiphenyl	68		10 - 158				04/21/16 07:29	04/21/16 19:50	1

TestAmerica Buffalo

# Client Sample Results

Client: CDM Smith, Inc.  
Project/Site: Dewey Ave semi-annual GW Wells

TestAmerica Job ID: 480-98672-1

**Client Sample ID: MW-21-0416**

**Lab Sample ID: 480-98672-7**

**Date Collected: 04/19/16 09:35**

**Matrix: Water**

**Date Received: 04/20/16 11:05**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.047		ug/L		04/21/16 07:29	04/21/16 20:36	1
PCB-1221	ND		0.047		ug/L		04/21/16 07:29	04/21/16 20:36	1
PCB-1232	ND		0.047		ug/L		04/21/16 07:29	04/21/16 20:36	1
PCB-1242	ND		0.047		ug/L		04/21/16 07:29	04/21/16 20:36	1
PCB-1248	ND		0.047		ug/L		04/21/16 07:29	04/21/16 20:36	1
PCB-1254	ND		0.047		ug/L		04/21/16 07:29	04/21/16 20:36	1
PCB-1260	ND		0.047		ug/L		04/21/16 07:29	04/21/16 20:36	1
Polychlorinated biphenyls, Total	ND		0.056		ug/L		04/21/16 07:29	04/21/16 20:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	76		25 - 151				04/21/16 07:29	04/21/16 20:36	1
DCB Decachlorobiphenyl	66		10 - 158				04/21/16 07:29	04/21/16 20:36	1

**Client Sample ID: MW-24-0416**

**Lab Sample ID: 480-98672-8**

**Date Collected: 04/19/16 08:15**

**Matrix: Water**

**Date Received: 04/20/16 11:05**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.047		ug/L		04/21/16 07:29	04/21/16 20:51	1
PCB-1221	ND		0.047		ug/L		04/21/16 07:29	04/21/16 20:51	1
PCB-1232	ND		0.047		ug/L		04/21/16 07:29	04/21/16 20:51	1
PCB-1242	ND		0.047		ug/L		04/21/16 07:29	04/21/16 20:51	1
PCB-1248	ND		0.047		ug/L		04/21/16 07:29	04/21/16 20:51	1
PCB-1254	ND		0.047		ug/L		04/21/16 07:29	04/21/16 20:51	1
PCB-1260	ND		0.047		ug/L		04/21/16 07:29	04/21/16 20:51	1
Polychlorinated biphenyls, Total	ND		0.056		ug/L		04/21/16 07:29	04/21/16 20:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	74		25 - 151				04/21/16 07:29	04/21/16 20:51	1
DCB Decachlorobiphenyl	85		10 - 158				04/21/16 07:29	04/21/16 20:51	1

**Client Sample ID: FD-0416**

**Lab Sample ID: 480-98672-9**

**Date Collected: 04/19/16 00:00**

**Matrix: Water**

**Date Received: 04/20/16 11:05**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.047		ug/L		04/21/16 07:29	04/21/16 21:07	1
PCB-1221	ND		0.047		ug/L		04/21/16 07:29	04/21/16 21:07	1
PCB-1232	ND		0.047		ug/L		04/21/16 07:29	04/21/16 21:07	1
PCB-1242	ND		0.047		ug/L		04/21/16 07:29	04/21/16 21:07	1
PCB-1248	ND		0.047		ug/L		04/21/16 07:29	04/21/16 21:07	1
PCB-1254	ND		0.047		ug/L		04/21/16 07:29	04/21/16 21:07	1
PCB-1260	ND		0.047		ug/L		04/21/16 07:29	04/21/16 21:07	1
Polychlorinated biphenyls, Total	ND		0.056		ug/L		04/21/16 07:29	04/21/16 21:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	73		25 - 151				04/21/16 07:29	04/21/16 21:07	1
DCB Decachlorobiphenyl	75		10 - 158				04/21/16 07:29	04/21/16 21:07	1

TestAmerica Buffalo

# Surrogate Summary

Client: CDM Smith, Inc.  
Project/Site: Dewey Ave semi-annual GW Wells

TestAmerica Job ID: 480-98672-1

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

Matrix: Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX2 (25-151)	DCB2 (10-158)
480-98672-1	MW-1-0416	68	49
480-98672-2	MW-6-0416	76	72
480-98672-2 MS	MW-6 MS-0416	77	36
480-98672-2 MSD	MW-6 SD-0416	77	35
480-98672-3	MW-9-0416	90	47
480-98672-4	MW-11-0416	76	68
480-98672-5	MW-12-0416	73	71
480-98672-6	MW-20-0416	71	68
480-98672-7	MW-21-0416	76	66
480-98672-8	MW-24-0416	74	85
480-98672-9	FD-0416	73	75
LCS 480-297264/2-A	Lab Control Sample	77	53
MB 480-297264/1-A	Method Blank	67	61

### Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

# QC Sample Results

Client: CDM Smith, Inc.  
Project/Site: Dewey Ave semi-annual GW Wells

TestAmerica Job ID: 480-98672-1

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

Lab Sample ID: MB 480-297264/1-A

Matrix: Water

Analysis Batch: 297487

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 297264

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.050		ug/L		04/21/16 07:29	04/21/16 17:32	1
PCB-1221	ND		0.050		ug/L		04/21/16 07:29	04/21/16 17:32	1
PCB-1232	ND		0.050		ug/L		04/21/16 07:29	04/21/16 17:32	1
PCB-1242	ND		0.050		ug/L		04/21/16 07:29	04/21/16 17:32	1
PCB-1248	ND		0.050		ug/L		04/21/16 07:29	04/21/16 17:32	1
PCB-1254	ND		0.050		ug/L		04/21/16 07:29	04/21/16 17:32	1
PCB-1260	ND		0.050		ug/L		04/21/16 07:29	04/21/16 17:32	1
Polychlorinated biphenyls, Total	ND		0.060		ug/L		04/21/16 07:29	04/21/16 17:32	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	67		25 - 151	04/21/16 07:29	04/21/16 17:32	1
DCB Decachlorobiphenyl	61		10 - 158	04/21/16 07:29	04/21/16 17:32	1

Lab Sample ID: LCS 480-297264/2-A

Matrix: Water

Analysis Batch: 297487

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 297264

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
PCB-1016	1.00	0.870		ug/L		87	64 - 129
PCB-1260	1.00	0.813		ug/L		81	54 - 138

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	77		25 - 151
DCB Decachlorobiphenyl	53		10 - 158

Lab Sample ID: 480-98672-2 MS

Matrix: Water

Analysis Batch: 297487

Client Sample ID: MW-6 MS-0416

Prep Type: Total/NA

Prep Batch: 297264

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
PCB-1016	ND		0.941	0.758		ug/L		81	23 - 160
PCB-1260	ND		0.941	0.732		ug/L		78	16 - 163

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene	77		25 - 151
DCB Decachlorobiphenyl	36		10 - 158

Lab Sample ID: 480-98672-2 MSD

Matrix: Water

Analysis Batch: 297487

Client Sample ID: MW-6 SD-0416

Prep Type: Total/NA

Prep Batch: 297264

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
PCB-1016	ND		0.939	0.752		ug/L		80	23 - 160	1	50
PCB-1260	ND		0.939	0.706		ug/L		75	16 - 163	4	50

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Tetrachloro-m-xylene	77		25 - 151

TestAmerica Buffalo

## QC Sample Results

Client: CDM Smith, Inc.  
Project/Site: Dewey Ave semi-annual GW Wells

TestAmerica Job ID: 480-98672-1

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

Lab Sample ID: 480-98672-2 MSD

Matrix: Water

Analysis Batch: 297487

Client Sample ID: MW-6 SD-0416

Prep Type: Total/NA

Prep Batch: 297264

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl	35		10 - 158

# QC Association Summary

Client: CDM Smith, Inc.  
Project/Site: Dewey Ave semi-annual GW Wells

TestAmerica Job ID: 480-98672-1

## GC Semi VOA

### Prep Batch: 297264

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-98672-1	MW-1-0416	Total/NA	Water	3510C	
480-98672-2	MW-6-0416	Total/NA	Water	3510C	
480-98672-2 MS	MW-6 MS-0416	Total/NA	Water	3510C	
480-98672-2 MSD	MW-6 SD-0416	Total/NA	Water	3510C	
480-98672-3	MW-9-0416	Total/NA	Water	3510C	
480-98672-4	MW-11-0416	Total/NA	Water	3510C	
480-98672-5	MW-12-0416	Total/NA	Water	3510C	
480-98672-6	MW-20-0416	Total/NA	Water	3510C	
480-98672-7	MW-21-0416	Total/NA	Water	3510C	
480-98672-8	MW-24-0416	Total/NA	Water	3510C	
480-98672-9	FD-0416	Total/NA	Water	3510C	
LCS 480-297264/2-A	Lab Control Sample	Total/NA	Water	3510C	
MB 480-297264/1-A	Method Blank	Total/NA	Water	3510C	

### Analysis Batch: 297487

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-98672-1	MW-1-0416	Total/NA	Water	8082A	297264
480-98672-2	MW-6-0416	Total/NA	Water	8082A	297264
480-98672-2 MS	MW-6 MS-0416	Total/NA	Water	8082A	297264
480-98672-2 MSD	MW-6 SD-0416	Total/NA	Water	8082A	297264
480-98672-3	MW-9-0416	Total/NA	Water	8082A	297264
480-98672-4	MW-11-0416	Total/NA	Water	8082A	297264
480-98672-5	MW-12-0416	Total/NA	Water	8082A	297264
480-98672-6	MW-20-0416	Total/NA	Water	8082A	297264
480-98672-7	MW-21-0416	Total/NA	Water	8082A	297264
480-98672-8	MW-24-0416	Total/NA	Water	8082A	297264
480-98672-9	FD-0416	Total/NA	Water	8082A	297264
LCS 480-297264/2-A	Lab Control Sample	Total/NA	Water	8082A	297264
MB 480-297264/1-A	Method Blank	Total/NA	Water	8082A	297264



# Lab Chronicle

Client: CDM Smith, Inc.  
Project/Site: Dewey Ave semi-annual GW Wells

TestAmerica Job ID: 480-98672-1

**Client Sample ID: MW-1-0416**

**Date Collected: 04/19/16 10:30**

**Date Received: 04/20/16 11:05**

**Lab Sample ID: 480-98672-1**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			297264	04/21/16 07:29	CPH	TAL BUF
Total/NA	Analysis	8082A		2	297487	04/21/16 18:33	KS	TAL BUF

**Client Sample ID: MW-6-0416**

**Date Collected: 04/19/16 11:15**

**Date Received: 04/20/16 11:05**

**Lab Sample ID: 480-98672-2**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			297264	04/21/16 07:29	CPH	TAL BUF
Total/NA	Analysis	8082A		1	297487	04/21/16 18:49	KS	TAL BUF

**Client Sample ID: MW-9-0416**

**Date Collected: 04/19/16 09:45**

**Date Received: 04/20/16 11:05**

**Lab Sample ID: 480-98672-3**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			297264	04/21/16 07:29	CPH	TAL BUF
Total/NA	Analysis	8082A		5	297487	04/21/16 19:04	KS	TAL BUF

**Client Sample ID: MW-11-0416**

**Date Collected: 04/19/16 09:05**

**Date Received: 04/20/16 11:05**

**Lab Sample ID: 480-98672-4**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			297264	04/21/16 07:29	CPH	TAL BUF
Total/NA	Analysis	8082A		1	297487	04/21/16 19:19	KS	TAL BUF

**Client Sample ID: MW-12-0416**

**Date Collected: 04/19/16 08:20**

**Date Received: 04/20/16 11:05**

**Lab Sample ID: 480-98672-5**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			297264	04/21/16 07:29	CPH	TAL BUF
Total/NA	Analysis	8082A		1	297487	04/21/16 19:35	KS	TAL BUF

**Client Sample ID: MW-20-0416**

**Date Collected: 04/19/16 08:55**

**Date Received: 04/20/16 11:05**

**Lab Sample ID: 480-98672-6**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			297264	04/21/16 07:29	CPH	TAL BUF
Total/NA	Analysis	8082A		1	297487	04/21/16 19:50	KS	TAL BUF

TestAmerica Buffalo

# Lab Chronicle

Client: CDM Smith, Inc.  
Project/Site: Dewey Ave semi-annual GW Wells

TestAmerica Job ID: 480-98672-1

**Client Sample ID: MW-21-0416**

**Date Collected: 04/19/16 09:35**

**Date Received: 04/20/16 11:05**

**Lab Sample ID: 480-98672-7**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			297264	04/21/16 07:29	CPH	TAL BUF
Total/NA	Analysis	8082A		1	297487	04/21/16 20:36	KS	TAL BUF

**Client Sample ID: MW-24-0416**

**Date Collected: 04/19/16 08:15**

**Date Received: 04/20/16 11:05**

**Lab Sample ID: 480-98672-8**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			297264	04/21/16 07:29	CPH	TAL BUF
Total/NA	Analysis	8082A		1	297487	04/21/16 20:51	KS	TAL BUF

**Client Sample ID: FD-0416**

**Date Collected: 04/19/16 00:00**

**Date Received: 04/20/16 11:05**

**Lab Sample ID: 480-98672-9**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			297264	04/21/16 07:29	CPH	TAL BUF
Total/NA	Analysis	8082A		1	297487	04/21/16 21:07	KS	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: Dewey Ave semi-annual GW Wells

TestAmerica Job ID: 480-98672-1

## Laboratory: TestAmerica Buffalo

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

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-17

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

Analysis Method	Prep Method	Matrix	Analyte
8082A	3510C	Water	Polychlorinated biphenyls, Total

## Method Summary

Client: CDM Smith, Inc.  
Project/Site: Dewey Ave semi-annual GW Wells

TestAmerica Job ID: 480-98672-1

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: Dewey Ave semi-annual GW Wells

TestAmerica Job ID: 480-98672-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-98672-1	MW-1-0416	Water	04/19/16 10:30	04/20/16 11:05
480-98672-2	MW-6-0416	Water	04/19/16 11:15	04/20/16 11:05
480-98672-3	MW-9-0416	Water	04/19/16 09:45	04/20/16 11:05
480-98672-4	MW-11-0416	Water	04/19/16 09:05	04/20/16 11:05
480-98672-5	MW-12-0416	Water	04/19/16 08:20	04/20/16 11:05
480-98672-6	MW-20-0416	Water	04/19/16 08:55	04/20/16 11:05
480-98672-7	MW-21-0416	Water	04/19/16 09:35	04/20/16 11:05
480-98672-8	MW-24-0416	Water	04/19/16 08:15	04/20/16 11:05
480-98672-9	FD-0416	Water	04/19/16 00:00	04/20/16 11:05

## Detection Limit Exceptions Summary

Client: CDM Smith, Inc.

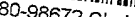
TestAmerica Job ID: 480-98672-1

Project/Site: Dewey Ave semi-annual GW Wells

The requested project specific reporting limits listed below were less than laboratory standard quantitation limits (PQL) but great 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 procedure 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

**TestAmerica**  
THE LEADER IN ENVIRONMENTAL TESTING



480-98672 Chain of Custody

## Login Sample Receipt Checklist

Client: CDM Smith, Inc.

Job Number: 480-98672-1

**Login Number: 98672**

**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 (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	CDMS
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	



November 07, 2016

Mr. Robert Sickler  
Groundwater & Environmental Services, Inc.  
5 Technology Place, Suite 4  
East Syracuse, NY 13057

RE: Project: National Grid - Buffalo Dewey  
Pace Project No.: 30199999

Dear Mr. Sickler:

Enclosed are the analytical results for sample(s) received by the laboratory on October 21, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Rachel Christner  
rachel.christner@pacelabs.com  
Project Manager

Enclosures

cc: GES Reports - Syracuse, Groundwater & Environmental  
Services, Inc.  
Mr. Mark Boorady, Groundwater & Environmental Services,  
Inc.  
Ms. Cheryl Golden-Walts, Groundwater & Environmental  
Services, Inc.



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: National Grid - Buffalo Dewey

Pace Project No.: 30199999

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### Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

L-A-B DOD-ELAP Accreditation #: L2417

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 04222CA

Colorado Certification

Connecticut Certification #: PH-0694

Delaware Certification

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: 90133

Louisiana DHH/TNI Certification #: LA140008

Louisiana DEQ/TNI Certification #: 4086

Maine Certification #: PA00091

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification

Missouri Certification #: 235

Montana Certification #: Cert 0082

Nebraska Certification #: NE-05-29-14

Nevada Certification #: PA014572015-1

New Hampshire/TNI Certification #: 2976

New Jersey/TNI Certification #: PA 051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Oregon/TNI Certification #: PA200002

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: TN2867

Texas/TNI Certification #: T104704188-14-8

Utah/TNI Certification #: PA014572015-5

USDA Soil Permit #: P330-14-00213

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 460198

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Certification

Wyoming Certification #: 8TMS-L

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: National Grid - Buffalo Dewey

Pace Project No.: 30199999

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30199999001	MW-1-1016	Water	10/19/16 14:00	10/21/16 10:40
30199999002	MW-6-1016	Water	10/19/16 14:50	10/21/16 10:40
30199999003	MW-9-1016	Water	10/19/16 13:55	10/21/16 10:40
30199999004	MW-11-1016	Water	10/19/16 12:05	10/21/16 10:40
30199999005	MW-12-1016	Water	10/19/16 12:15	10/21/16 10:40
30199999006	MW-21-1016	Water	10/19/16 11:05	10/21/16 10:40
30199999007	MW-24-1016	Water	10/19/16 10:15	10/21/16 10:40
30199999008	MW-20-1016	Water	10/19/16 10:58	10/21/16 10:40
30199999009	Field Duplicate-1016	Water	10/19/16 14:50	10/21/16 10:40
30199999010	MW-6-Matrix Spike-1016	Water	10/19/16 14:50	10/21/16 10:40
30199999011	MW-6-Duplicate Matrix Spike-10	Water	10/19/16 14:50	10/21/16 10:40

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## SAMPLE ANALYTE COUNT

Project: National Grid - Buffalo Dewey

Pace Project No.: 30199999

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30199999001	MW-1-1016	EPA 608	SJG	9	PASI-PA
30199999002	MW-6-1016	EPA 608	SJG	9	PASI-PA
30199999003	MW-9-1016	EPA 608	CWB	9	PASI-PA
30199999004	MW-11-1016	EPA 608	SJG	9	PASI-PA
30199999005	MW-12-1016	EPA 608	SJG	9	PASI-PA
30199999006	MW-21-1016	EPA 608	SJG	9	PASI-PA
30199999007	MW-24-1016	EPA 608	SJG	9	PASI-PA
30199999008	MW-20-1016	EPA 608	SJG	9	PASI-PA
30199999009	Field Duplicate-1016	EPA 608	SJG	9	PASI-PA
30199999010	MW-6-Matrix Spike-1016	EPA 608	SJG	9	PASI-PA
30199999011	MW-6-Duplicate Matrix Spike-10	EPA 608	SJG	9	PASI-PA

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: National Grid - Buffalo Dewey

Pace Project No.: 30199999

**Method:** EPA 608

**Description:** 608 GCS PCBs

**Client:** Groundwater & Environmental Services, Inc. (Syracuse)

**Date:** November 07, 2016

### General Information:

11 samples were analyzed for EPA 608. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Sample Preparation:

The samples were prepared in accordance with EPA 608 SF with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

QC Batch: 238181

SS: This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

- BLANK (Lab ID: 1170523)
  - Decachlorobiphenyl (S)
- Field Duplicate-1016 (Lab ID: 30199999009)
  - Decachlorobiphenyl (S)
- LCS (Lab ID: 1170524)
  - Decachlorobiphenyl (S)
- MS (Lab ID: 1170525)
  - Decachlorobiphenyl (S)
- MSD (Lab ID: 1170526)
  - Decachlorobiphenyl (S)
- MW-11-1016 (Lab ID: 30199999004)
  - Decachlorobiphenyl (S)
- MW-12-1016 (Lab ID: 30199999005)
  - Decachlorobiphenyl (S)
- MW-20-1016 (Lab ID: 30199999008)
  - Decachlorobiphenyl (S)
- MW-21-1016 (Lab ID: 30199999006)
  - Decachlorobiphenyl (S)
- MW-24-1016 (Lab ID: 30199999007)
  - Decachlorobiphenyl (S)
- MW-6-1016 (Lab ID: 30199999002)
  - Decachlorobiphenyl (S)
- MW-6-Duplicate Matrix Spike-10 (Lab ID: 30199999011)
  - Decachlorobiphenyl (S)
- MW-6-Matrix Spike-1016 (Lab ID: 30199999010)
  - Decachlorobiphenyl (S)

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: National Grid - Buffalo Dewey

Pace Project No.: 30199999

**Method:** EPA 608

**Description:** 608 GCS PCBs

**Client:** Groundwater & Environmental Services, Inc. (Syracuse)

**Date:** November 07, 2016

QC Batch: 238410

SS: This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

- LCS (Lab ID: 1171556)
  - Decachlorobiphenyl (S)
- MW-1-1016 (Lab ID: 30199999001)
  - Decachlorobiphenyl (S)

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

### Surrogates:

All surrogates were within QC limits with any exceptions noted below.

QC Batch: 238181

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- MW-9-1016 (Lab ID: 30199999003)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 238410

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

### Additional Comments:

Analyte Comments:

QC Batch: 238410

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- MW-1-1016 (Lab ID: 30199999001)
  - PCB-1016 (Aroclor 1016)
  - PCB-1221 (Aroclor 1221)
  - PCB-1232 (Aroclor 1232)
  - PCB-1242 (Aroclor 1242)
  - PCB-1248 (Aroclor 1248)
  - PCB-1254 (Aroclor 1254)
  - PCB-1260 (Aroclor 1260)

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: National Grid - Buffalo Dewey

Pace Project No.: 30199999

---

**Method:** EPA 608

**Description:** 608 GCS PCBs

**Client:** Groundwater & Environmental Services, Inc. (Syracuse)

**Date:** November 07, 2016

This data package has been reviewed for quality and completeness and is approved for release.

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: National Grid - Buffalo Dewey

Pace Project No.: 30199999

Sample: MW-1-1016 Lab ID: 30199999001 Collected: 10/19/16 14:00 Received: 10/21/16 10:40 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
608 GCS PCBs Analytical Method: EPA 608 Preparation Method: EPA 608 SF									
PCB-1016 (Aroclor 1016)	1.0 U	ug/L	1.0	0.021	1	10/30/16 09:27	11/03/16 19:30	12674-11-2	1c
PCB-1221 (Aroclor 1221)	1.0 U	ug/L	1.0	0.065	1	10/30/16 09:27	11/03/16 19:30	11104-28-2	1c
PCB-1232 (Aroclor 1232)	1.0 U	ug/L	1.0	0.010	1	10/30/16 09:27	11/03/16 19:30	11141-16-5	1c
PCB-1242 (Aroclor 1242)	1.0 U	ug/L	1.0	0.030	1	10/30/16 09:27	11/03/16 19:30	53469-21-9	1c
PCB-1248 (Aroclor 1248)	1.0 U	ug/L	1.0	0.025	1	10/30/16 09:27	11/03/16 19:30	12672-29-6	1c
PCB-1254 (Aroclor 1254)	1.0 U	ug/L	1.0	0.026	1	10/30/16 09:27	11/03/16 19:30	11097-69-1	1c
PCB-1260 (Aroclor 1260)	1.0 U	ug/L	1.0	0.010	1	10/30/16 09:27	11/03/16 19:30	11096-82-5	1c
Surrogates									
Tetrachloro-m-xylene (S)	75	%	10-113		1	10/30/16 09:27	11/03/16 19:30	877-09-8	
Decachlorobiphenyl (S)	51	%	10-105		1	10/30/16 09:27	11/03/16 19:30	2051-24-3	CL,SS

Sample: MW-6-1016 Lab ID: 30199999002 Collected: 10/19/16 14:50 Received: 10/21/16 10:40 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
608 GCS PCBs Analytical Method: EPA 608 Preparation Method: EPA 608 SF									
PCB-1016 (Aroclor 1016)	1.0 U	ug/L	1.0	0.020	1	10/27/16 12:10	11/02/16 19:53	12674-11-2	
PCB-1221 (Aroclor 1221)	1.0 U	ug/L	1.0	0.064	1	10/27/16 12:10	11/02/16 19:53	11104-28-2	
PCB-1232 (Aroclor 1232)	1.0 U	ug/L	1.0	0.010	1	10/27/16 12:10	11/02/16 19:53	11141-16-5	
PCB-1242 (Aroclor 1242)	1.0 U	ug/L	1.0	0.030	1	10/27/16 12:10	11/02/16 19:53	53469-21-9	
PCB-1248 (Aroclor 1248)	1.0 U	ug/L	1.0	0.024	1	10/27/16 12:10	11/02/16 19:53	12672-29-6	
PCB-1254 (Aroclor 1254)	1.0 U	ug/L	1.0	0.026	1	10/27/16 12:10	11/02/16 19:53	11097-69-1	
PCB-1260 (Aroclor 1260)	1.0 U	ug/L	1.0	0.010	1	10/27/16 12:10	11/02/16 19:53	11096-82-5	
Surrogates									
Tetrachloro-m-xylene (S)	72	%	10-113		1	10/27/16 12:10	11/02/16 19:53	877-09-8	
Decachlorobiphenyl (S)	45	%	10-105		1	10/27/16 12:10	11/02/16 19:53	2051-24-3	CL,SS

Sample: MW-9-1016 Lab ID: 30199999003 Collected: 10/19/16 13:55 Received: 10/21/16 10:40 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
608 GCS PCBs Analytical Method: EPA 608 Preparation Method: EPA 608 SF									
PCB-1016 (Aroclor 1016)	20.3 U	ug/L	20.3	0.40	20	10/27/16 12:10	11/05/16 14:58	12674-11-2	
PCB-1221 (Aroclor 1221)	37.4	ug/L	20.3	1.3	20	10/27/16 12:10	11/05/16 14:58	11104-28-2	
PCB-1232 (Aroclor 1232)	20.3 U	ug/L	20.3	0.20	20	10/27/16 12:10	11/05/16 14:58	11141-16-5	
PCB-1242 (Aroclor 1242)	20.3 U	ug/L	20.3	0.59	20	10/27/16 12:10	11/05/16 14:58	53469-21-9	
PCB-1248 (Aroclor 1248)	20.3 U	ug/L	20.3	0.48	20	10/27/16 12:10	11/05/16 14:58	12672-29-6	
PCB-1254 (Aroclor 1254)	20.3 U	ug/L	20.3	0.51	20	10/27/16 12:10	11/05/16 14:58	11097-69-1	
PCB-1260 (Aroclor 1260)	20.3 U	ug/L	20.3	0.20	20	10/27/16 12:10	11/05/16 14:58	11096-82-5	
Surrogates									
Tetrachloro-m-xylene (S)	0	%	10-113		20	10/27/16 12:10	11/05/16 14:58	877-09-8	S4
Decachlorobiphenyl (S)	0	%	10-105		20	10/27/16 12:10	11/05/16 14:58	2051-24-3	S4

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: National Grid - Buffalo Dewey  
Pace Project No.: 30199999

<b>Sample: MW-11-1016</b>		<b>Lab ID: 30199999004</b>		Collected: 10/19/16 12:05		Received: 10/21/16 10:40		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>608 GCS PCBs</b>		Analytical Method: EPA 608 Preparation Method: EPA 608 SF							
PCB-1016 (Aroclor 1016)	1.0 U	ug/L	1.0	0.020	1	10/27/16 12:10	11/02/16 20:24	12674-11-2	
PCB-1221 (Aroclor 1221)	1.0 U	ug/L	1.0	0.063	1	10/27/16 12:10	11/02/16 20:24	11104-28-2	
PCB-1232 (Aroclor 1232)	1.0 U	ug/L	1.0	0.010	1	10/27/16 12:10	11/02/16 20:24	11141-16-5	
PCB-1242 (Aroclor 1242)	1.0 U	ug/L	1.0	0.029	1	10/27/16 12:10	11/02/16 20:24	53469-21-9	
PCB-1248 (Aroclor 1248)	1.0 U	ug/L	1.0	0.024	1	10/27/16 12:10	11/02/16 20:24	12672-29-6	
PCB-1254 (Aroclor 1254)	1.0 U	ug/L	1.0	0.025	1	10/27/16 12:10	11/02/16 20:24	11097-69-1	
PCB-1260 (Aroclor 1260)	1.0 U	ug/L	1.0	0.0099	1	10/27/16 12:10	11/02/16 20:24	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	74	%	10-113		1	10/27/16 12:10	11/02/16 20:24	877-09-8	
Decachlorobiphenyl (S)	50	%	10-105		1	10/27/16 12:10	11/02/16 20:24	2051-24-3	CL,SS

<b>Sample: MW-12-1016</b>		<b>Lab ID: 30199999005</b>		Collected: 10/19/16 12:15		Received: 10/21/16 10:40		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>608 GCS PCBs</b>		Analytical Method: EPA 608 Preparation Method: EPA 608 SF							
PCB-1016 (Aroclor 1016)	1.0 U	ug/L	1.0	0.020	1	10/27/16 12:10	11/02/16 20:32	12674-11-2	
PCB-1221 (Aroclor 1221)	1.0 U	ug/L	1.0	0.064	1	10/27/16 12:10	11/02/16 20:32	11104-28-2	
PCB-1232 (Aroclor 1232)	1.0 U	ug/L	1.0	0.010	1	10/27/16 12:10	11/02/16 20:32	11141-16-5	
PCB-1242 (Aroclor 1242)	1.0 U	ug/L	1.0	0.030	1	10/27/16 12:10	11/02/16 20:32	53469-21-9	
PCB-1248 (Aroclor 1248)	1.0 U	ug/L	1.0	0.024	1	10/27/16 12:10	11/02/16 20:32	12672-29-6	
PCB-1254 (Aroclor 1254)	1.0 U	ug/L	1.0	0.026	1	10/27/16 12:10	11/02/16 20:32	11097-69-1	
PCB-1260 (Aroclor 1260)	1.0 U	ug/L	1.0	0.010	1	10/27/16 12:10	11/02/16 20:32	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	73	%	10-113		1	10/27/16 12:10	11/02/16 20:32	877-09-8	
Decachlorobiphenyl (S)	47	%	10-105		1	10/27/16 12:10	11/02/16 20:32	2051-24-3	CL,SS

<b>Sample: MW-21-1016</b>		<b>Lab ID: 30199999006</b>		Collected: 10/19/16 11:05		Received: 10/21/16 10:40		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>608 GCS PCBs</b>		Analytical Method: EPA 608 Preparation Method: EPA 608 SF							
PCB-1016 (Aroclor 1016)	1.0 U	ug/L	1.0	0.020	1	10/27/16 12:10	11/02/16 20:40	12674-11-2	
PCB-1221 (Aroclor 1221)	1.0 U	ug/L	1.0	0.064	1	10/27/16 12:10	11/02/16 20:40	11104-28-2	
PCB-1232 (Aroclor 1232)	1.0 U	ug/L	1.0	0.010	1	10/27/16 12:10	11/02/16 20:40	11141-16-5	
PCB-1242 (Aroclor 1242)	1.0 U	ug/L	1.0	0.030	1	10/27/16 12:10	11/02/16 20:40	53469-21-9	
PCB-1248 (Aroclor 1248)	1.0 U	ug/L	1.0	0.024	1	10/27/16 12:10	11/02/16 20:40	12672-29-6	
PCB-1254 (Aroclor 1254)	1.0 U	ug/L	1.0	0.026	1	10/27/16 12:10	11/02/16 20:40	11097-69-1	
PCB-1260 (Aroclor 1260)	1.0 U	ug/L	1.0	0.010	1	10/27/16 12:10	11/02/16 20:40	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	75	%	10-113		1	10/27/16 12:10	11/02/16 20:40	877-09-8	
Decachlorobiphenyl (S)	51	%	10-105		1	10/27/16 12:10	11/02/16 20:40	2051-24-3	CL,SS

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: National Grid - Buffalo Dewey

Pace Project No.: 30199999

Sample: MW-24-1016		Lab ID: 30199999007		Collected: 10/19/16 10:15		Received: 10/21/16 10:40		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>608 GCS PCBs</b> Analytical Method: EPA 608 Preparation Method: EPA 608 SF									
PCB-1016 (Aroclor 1016)	1.0 U	ug/L	1.0	0.020	1	10/27/16 12:10	11/02/16 20:47	12674-11-2	
PCB-1221 (Aroclor 1221)	1.0 U	ug/L	1.0	0.064	1	10/27/16 12:10	11/02/16 20:47	11104-28-2	
PCB-1232 (Aroclor 1232)	1.0 U	ug/L	1.0	0.010	1	10/27/16 12:10	11/02/16 20:47	11141-16-5	
PCB-1242 (Aroclor 1242)	1.0 U	ug/L	1.0	0.030	1	10/27/16 12:10	11/02/16 20:47	53469-21-9	
PCB-1248 (Aroclor 1248)	1.0 U	ug/L	1.0	0.024	1	10/27/16 12:10	11/02/16 20:47	12672-29-6	
PCB-1254 (Aroclor 1254)	1.0 U	ug/L	1.0	0.026	1	10/27/16 12:10	11/02/16 20:47	11097-69-1	
PCB-1260 (Aroclor 1260)	1.0 U	ug/L	1.0	0.010	1	10/27/16 12:10	11/02/16 20:47	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	60	%	10-113		1	10/27/16 12:10	11/02/16 20:47	877-09-8	
Decachlorobiphenyl (S)	47	%	10-105		1	10/27/16 12:10	11/02/16 20:47	2051-24-3	CL,SS

Sample: MW-20-1016		Lab ID: 30199999008		Collected: 10/19/16 10:58		Received: 10/21/16 10:40		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>608 GCS PCBs</b> Analytical Method: EPA 608 Preparation Method: EPA 608 SF									
PCB-1016 (Aroclor 1016)	1.0 U	ug/L	1.0	0.020	1	10/27/16 12:10	11/02/16 21:41	12674-11-2	
PCB-1221 (Aroclor 1221)	1.0 U	ug/L	1.0	0.063	1	10/27/16 12:10	11/02/16 21:41	11104-28-2	
PCB-1232 (Aroclor 1232)	1.0 U	ug/L	1.0	0.010	1	10/27/16 12:10	11/02/16 21:41	11141-16-5	
PCB-1242 (Aroclor 1242)	1.0 U	ug/L	1.0	0.029	1	10/27/16 12:10	11/02/16 21:41	53469-21-9	
PCB-1248 (Aroclor 1248)	1.0 U	ug/L	1.0	0.024	1	10/27/16 12:10	11/02/16 21:41	12672-29-6	
PCB-1254 (Aroclor 1254)	1.0 U	ug/L	1.0	0.026	1	10/27/16 12:10	11/02/16 21:41	11097-69-1	
PCB-1260 (Aroclor 1260)	1.0 U	ug/L	1.0	0.0099	1	10/27/16 12:10	11/02/16 21:41	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	76	%	10-113		1	10/27/16 12:10	11/02/16 21:41	877-09-8	
Decachlorobiphenyl (S)	44	%	10-105		1	10/27/16 12:10	11/02/16 21:41	2051-24-3	CL,SS

Sample: Field Duplicate-1016		Lab ID: 30199999009		Collected: 10/19/16 14:50		Received: 10/21/16 10:40		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>608 GCS PCBs</b> Analytical Method: EPA 608 Preparation Method: EPA 608 SF									
PCB-1016 (Aroclor 1016)	1.0 U	ug/L	1.0	0.020	1	10/27/16 12:10	11/02/16 21:49	12674-11-2	
PCB-1221 (Aroclor 1221)	1.0 U	ug/L	1.0	0.064	1	10/27/16 12:10	11/02/16 21:49	11104-28-2	
PCB-1232 (Aroclor 1232)	1.0 U	ug/L	1.0	0.010	1	10/27/16 12:10	11/02/16 21:49	11141-16-5	
PCB-1242 (Aroclor 1242)	1.0 U	ug/L	1.0	0.030	1	10/27/16 12:10	11/02/16 21:49	53469-21-9	
PCB-1248 (Aroclor 1248)	1.0 U	ug/L	1.0	0.024	1	10/27/16 12:10	11/02/16 21:49	12672-29-6	
PCB-1254 (Aroclor 1254)	1.0 U	ug/L	1.0	0.026	1	10/27/16 12:10	11/02/16 21:49	11097-69-1	
PCB-1260 (Aroclor 1260)	1.0 U	ug/L	1.0	0.010	1	10/27/16 12:10	11/02/16 21:49	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	72	%	10-113		1	10/27/16 12:10	11/02/16 21:49	877-09-8	
Decachlorobiphenyl (S)	43	%	10-105		1	10/27/16 12:10	11/02/16 21:49	2051-24-3	CL,SS

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: National Grid - Buffalo Dewey

Pace Project No.: 30199999

Sample: MW-6-Matrix Spike-1016 Lab ID: 30199999010 Collected: 10/19/16 14:50 Received: 10/21/16 10:40 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
608 GCS PCBs Analytical Method: EPA 608 Preparation Method: EPA 608 SF									
PCB-1016 (Aroclor 1016)	1.0	ug/L	1.0	0.020	1	10/27/16 12:10	11/02/16 20:01	12674-11-2	
PCB-1221 (Aroclor 1221)	1.0 U	ug/L	1.0	0.063	1	10/27/16 12:10	11/02/16 20:01	11104-28-2	
PCB-1232 (Aroclor 1232)	1.0 U	ug/L	1.0	0.010	1	10/27/16 12:10	11/02/16 20:01	11141-16-5	
PCB-1242 (Aroclor 1242)	1.0 U	ug/L	1.0	0.029	1	10/27/16 12:10	11/02/16 20:01	53469-21-9	
PCB-1248 (Aroclor 1248)	1.0 U	ug/L	1.0	0.024	1	10/27/16 12:10	11/02/16 20:01	12672-29-6	
PCB-1254 (Aroclor 1254)	1.0 U	ug/L	1.0	0.026	1	10/27/16 12:10	11/02/16 20:01	11097-69-1	
PCB-1260 (Aroclor 1260)	1.0	ug/L	1.0	0.0099	1	10/27/16 12:10	11/02/16 20:01	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	71	%	10-113		1	10/27/16 12:10	11/02/16 20:01	877-09-8	
Decachlorobiphenyl (S)	38	%	10-105		1	10/27/16 12:10	11/02/16 20:01	2051-24-3	CL,SS

Sample: MW-6-Duplicate Matrix Spike-10 Lab ID: 30199999011 Collected: 10/19/16 14:50 Received: 10/21/16 10:40 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
608 GCS PCBs Analytical Method: EPA 608 Preparation Method: EPA 608 SF									
PCB-1016 (Aroclor 1016)	1.1	ug/L	1.1	0.021	1	10/27/16 12:10	11/02/16 20:09	12674-11-2	A5
PCB-1221 (Aroclor 1221)	1.1 U	ug/L	1.1	0.067	1	10/27/16 12:10	11/02/16 20:09	11104-28-2	A5
PCB-1232 (Aroclor 1232)	1.1 U	ug/L	1.1	0.011	1	10/27/16 12:10	11/02/16 20:09	11141-16-5	A5
PCB-1242 (Aroclor 1242)	1.1 U	ug/L	1.1	0.031	1	10/27/16 12:10	11/02/16 20:09	53469-21-9	A5
PCB-1248 (Aroclor 1248)	1.1 U	ug/L	1.1	0.026	1	10/27/16 12:10	11/02/16 20:09	12672-29-6	A5
PCB-1254 (Aroclor 1254)	1.1 U	ug/L	1.1	0.027	1	10/27/16 12:10	11/02/16 20:09	11097-69-1	A5
PCB-1260 (Aroclor 1260)	1.0J	ug/L	1.1	0.011	1	10/27/16 12:10	11/02/16 20:09	11096-82-5	A5
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	78	%	10-113		1	10/27/16 12:10	11/02/16 20:09	877-09-8	
Decachlorobiphenyl (S)	49	%	10-105		1	10/27/16 12:10	11/02/16 20:09	2051-24-3	CL,SS

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: National Grid - Buffalo Dewey

Pace Project No.: 30199999

QC Batch:	238181	Analysis Method:	EPA 608
QC Batch Method:	EPA 608 SF	Analysis Description:	608 GCS PCB
Associated Lab Samples:	30199999002, 30199999003, 30199999004, 30199999005, 30199999006, 30199999007, 30199999008, 30199999009, 30199999010, 30199999011		

METHOD BLANK: 1170523 Matrix: Water  
Associated Lab Samples: 30199999002, 30199999003, 30199999004, 30199999005, 30199999006, 30199999007, 30199999008, 30199999009, 30199999010, 30199999011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/L	1.0 U	1.0	0.020	11/02/16 19:38	
PCB-1221 (Aroclor 1221)	ug/L	1.0 U	1.0	0.062	11/02/16 19:38	
PCB-1232 (Aroclor 1232)	ug/L	1.0 U	1.0	0.0099	11/02/16 19:38	
PCB-1242 (Aroclor 1242)	ug/L	1.0 U	1.0	0.029	11/02/16 19:38	
PCB-1248 (Aroclor 1248)	ug/L	1.0 U	1.0	0.024	11/02/16 19:38	
PCB-1254 (Aroclor 1254)	ug/L	1.0 U	1.0	0.025	11/02/16 19:38	
PCB-1260 (Aroclor 1260)	ug/L	1.0 U	1.0	0.0098	11/02/16 19:38	
Decachlorobiphenyl (S)	%	49	10-105		11/02/16 19:38	CL,SS
Tetrachloro-m-xylene (S)	%	78	10-113		11/02/16 19:38	

LABORATORY CONTROL SAMPLE: 1170524

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/L	1.2	1.1	88	53-106	
PCB-1260 (Aroclor 1260)	ug/L	1.2	1.1	92	50-112	
Decachlorobiphenyl (S)	%			42	10-105	CL,SS
Tetrachloro-m-xylene (S)	%			76	10-113	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1170525 1170526

Parameter	Units	30199999002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
PCB-1016 (Aroclor 1016)	ug/L	1.0 U	1.3	1.4	1.0	1.1	80	81	53-106	7	25	
PCB-1260 (Aroclor 1260)	ug/L	1.0 U	1.3	1.4	1.0	1.0J	80	77	50-112		25	
Decachlorobiphenyl (S)	%						38	49	10-105			CL,SS
Tetrachloro-m-xylene (S)	%						71	78	10-113			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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## QUALITY CONTROL DATA

Project: National Grid - Buffalo Dewey

Pace Project No.: 30199999

QC Batch: 238410

Analysis Method: EPA 608

QC Batch Method: EPA 608 SF

Analysis Description: 608 GCS PCB

Associated Lab Samples: 30199999001

METHOD BLANK: 1171555

Matrix: Water

Associated Lab Samples: 30199999001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/L	1.0 U	1.0	0.020	10/31/16 22:09	
PCB-1221 (Aroclor 1221)	ug/L	1.0 U	1.0	0.062	10/31/16 22:09	
PCB-1232 (Aroclor 1232)	ug/L	1.0 U	1.0	0.0099	10/31/16 22:09	
PCB-1242 (Aroclor 1242)	ug/L	1.0 U	1.0	0.029	10/31/16 22:09	
PCB-1248 (Aroclor 1248)	ug/L	1.0 U	1.0	0.024	10/31/16 22:09	
PCB-1254 (Aroclor 1254)	ug/L	1.0 U	1.0	0.025	10/31/16 22:09	
PCB-1260 (Aroclor 1260)	ug/L	1.0 U	1.0	0.0098	10/31/16 22:09	
Decachlorobiphenyl (S)	%	39	10-105		10/31/16 22:09	CH
Tetrachloro-m-xylene (S)	%	62	10-113		10/31/16 22:09	

LABORATORY CONTROL SAMPLE: 1171556

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/L	2.5	2.1	84	53-106	
PCB-1260 (Aroclor 1260)	ug/L	2.5	2.0	80	50-112	
Decachlorobiphenyl (S)	%			21	10-105	SS
Tetrachloro-m-xylene (S)	%			74	10-113	

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## QUALIFIERS

Project: National Grid - Buffalo Dewey  
Pace Project No.: 30199999

### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.  
 ND - Not Detected at or above adjusted reporting limit.  
 J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.  
 MDL - Adjusted Method Detection Limit.  
 PQL - Practical Quantitation Limit.  
 RL - Reporting Limit.  
 S - Surrogate  
 1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.  
 Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.  
 LCS(D) - Laboratory Control Sample (Duplicate)  
 MS(D) - Matrix Spike (Duplicate)  
 DUP - Sample Duplicate  
 RPD - Relative Percent Difference  
 NC - Not Calculable.  
 SG - Silica Gel - Clean-Up  
 U - Indicates the compound was analyzed for, but not detected.  
 N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.  
 Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.  
 TNI - The NELAC Institute.

### LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

### BATCH QUALIFIERS

Batch: 238410

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

### ANALYTE QUALIFIERS

1c	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
A5	Greater than 5% sediment in sample determined by visual observation. Aqueous portion decanted from the sediment and extracted.
CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
CL	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.
SS	This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: National Grid - Buffalo Dewey

Pace Project No.: 30199999

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30199999001	MW-1-1016	EPA 608 SF	238410	EPA 608	238596
30199999002	MW-6-1016	EPA 608 SF	238181	EPA 608	238927
30199999003	MW-9-1016	EPA 608 SF	238181	EPA 608	238927
30199999004	MW-11-1016	EPA 608 SF	238181	EPA 608	238927
30199999005	MW-12-1016	EPA 608 SF	238181	EPA 608	238927
30199999006	MW-21-1016	EPA 608 SF	238181	EPA 608	238927
30199999007	MW-24-1016	EPA 608 SF	238181	EPA 608	238927
30199999008	MW-20-1016	EPA 608 SF	238181	EPA 608	238927
30199999009	Field Duplicate-1016	EPA 608 SF	238181	EPA 608	238927
30199999010	MW-6-Matrix Spike-1016	EPA 608 SF	238181	EPA 608	238927
30199999011	MW-6-Duplicate Matrix Spike-10	EPA 608 SF	238181	EPA 608	238927

## REPORT OF LABORATORY ANALYSIS

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# Sample Condition Upon Receipt Pittsburgh



Client Name: Ges Syracuse

Project # 30199999

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other \_\_\_\_\_

Tracking #: 777519979754

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Thermometer Used 8 Type of Ice: Wet Blue None  
Cooler Temperature Observed Temp 1.3 °C Correction Factor: +0.1 °C Final Temp: 1.4 °C

Temp should be above freezing to 6°C

Date and Initials of person examining contents: ML 10-21-16

## Comments:

	Yes	No	N/A	
Chain of Custody Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4.
Sample Labels match COC:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5.
-Includes date/time/ID/Analysis Matrix: <u>WA</u>				
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6.
Short Hold Time Analysis (<72hr remaining):	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7.
Rush Turn Around Time Requested:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8.
Sufficient Volume:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9.
Correct Containers Used:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10.
-Pace Containers Used:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Containers Intact:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11.
Filtered volume received for Dissolved tests	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	12.
All containers needing preservation have been checked.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
exceptions: VOA, coliform, TOC, O&G, Phenolics				Initial when completed <u>ML</u> Date/time of preservation
				Lot # of added preservative
Headspace in VOA Vials (>6mm):	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	14.
Trip Blank Present:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	15.
Trip Blank Custody Seals Present	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Initial when completed <u>ML</u> Date: <u>10-21-16</u>
Rad Aqueous Samples Screened > 0.5 mrem/hr	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

## Client Notification/ Resolution:

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Contacted By: \_\_\_\_\_

Comments/ Resolution: \_\_\_\_\_

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office ( i.e. out of hold, incorrect preservative, out of temp, incorrect containers)  
\*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.