

April 30, 2018

Ms. Alexandra Servis
New York State Department of Environmental Conservation
Division of Environmental Remediation
Remedial Bureau C
625 Broadway
Albany, NY 12233-7013

**Re: National Grid Kingsley Avenue Site
Rome, New York
2018 1st Quarter OM&M Report**

Dear Ms. Servis:

Enclosed for your review is the 2018 1st Quarter Operation, Maintenance, and Monitoring (OM&M) Report for the National Grid Rome (Kingsley Avenue) Site. OM&M is being conducted in accordance with the Site Management Plan (SMP) and OM&M Plan issued May 31, 2013. National Grid filed the updated Declaration of Covenants and Restrictions with Oneida County on December 15, 2017. National Grid also submitted the final Site Management Plan to the NYSDEC on January 24, 2018.

The completed quarterly OM&M activities included:

- A quarterly site inspection;
- Collection of quarterly static water level measurements of site wells;
- Collection and laboratory analysis of quarterly groundwater samples from OU-1 groundwater wells;
- Collection and laboratory analysis of quarterly groundwater extraction system samples; and
- Monitoring and/or collection of light non-aqueous phase liquid and dense non-aqueous phase liquid at site wells.

The groundwater extraction system is operating continuously and discharging to the sanitary sewer under the existing City of Rome Water Pollution Control Authority discharge permit. A chemical treatment system to minimize iron fouling within the groundwater extraction manhole, submersible pump, and piping also operates continuously.

Ms. Alexandra Servis
April 30, 2018
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If you have any questions regarding the report or the scheduled activities, feel free to contact me at (315) 428-5652.

Very truly yours,

A handwritten signature in black ink, appearing to be 'S. Stucker', written in a cursive style.

for SPS

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

Enclosures

Cc: Devin Shay - Groundwater & Environmental Services, Inc.

National Grid

2018 1st Quarter Operations, Maintenance, and Monitoring Report



National Grid Rome Former MGP Site
233 Kingsley Avenue
Rome, NY 13440

April 2018

Version 1





2018 1st Quarter OM&M Report

National Grid Rome Former MGP Site
233 Kingsley Avenue
Rome, NY 13440

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Date:
April 30, 2018

Devin T. Shay, PG
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Acronyms

AWQS	Ambient Water Quality Standards	OM&M	Operation, Maintenance, and Monitoring
BTEX	Benzene, Toluene, Ethylbenzene, and Total Xylenes	OU	Operable Unit
DNAPL	Dense Non-Aqueous Phase Liquid	Pace	Pace Analytical Services, LLC
DUSR	Data Usability Summary Report	PAH	Polycyclic Aromatic Hydrocarbons
GES	Groundwater & Environmental Services, Inc.	POTW	Publically Owned Treatment Works
gpm	Gallons per Minute	QA/QC	Quality Assurance / Quality Control
IRM	Interim Remedial Measures	ROD	Record of Decision
LNAPL	Light Non-Aqueous Phase Liquid	SMP	Site Management Plan
MGP	Manufactured Gas Plant	USEPA	United States Environmental Protection Agency
NYSDEC	New York State Department of Environmental Conservation	WPCF	Water Pollution Control Facility



1 Introduction

1.1 Overview

Groundwater & Environmental Services, Inc. (GES) has prepared this 2018 1st Quarter Operation, Maintenance, and Monitoring Report (OM&M) on behalf of National Grid. This report compiles the OM&M activities completed in the 1st quarter of 2018 at the Former Kingsley Avenue Manufactured Gas Plant (MGP) Site (the Site), located in Rome, New York. The Site has been classified as a Class 2 inactive hazardous waste disposal site by the New York State Department of Environmental Conservation (NYSDEC) and is identified as Site No. 633043.

In accordance with the Record of Decision (March 2002) and following successful completion of the selected remedy, long-term OM&M is required at the Site. The Site Management Plan (SMP) and OM&M Plan were submitted to NYSDEC on May 31, 2013.

The following long-term OM&M activities are conducted in accordance with the SMP to monitor the effectiveness of the remediation previously conducted:

- Quarterly inspection of the Site (March, June, September, December);
- Collection of quarterly static water level measurements at the 34 site wells (16 Operable Unit [OU]-1 shallow and deep groundwater wells, eight dense non-aqueous phase liquid (DNAPL) wells, five OU-2 groundwater wells, and five extraction trench monitoring wells);
- Collection of quarterly groundwater samples from the 16 OU-1 shallow and deep groundwater wells and laboratory analysis of samples;
- Monitoring and/or collection of light non-aqueous phase liquid (LNAPL) and DNAPL monitoring at the 34 site wells, as needed. Offsite disposal of collected DNAPL at least once every 12 months;
- Removal of vegetation and snow, as necessary, to allow for access to the Site; and
- Submittal of quarterly OM&M reports to NYSDEC.

The groundwater extraction system is fully operational and discharges to the nearby sanitary sewer under an existing City of Rome Water Pollution Control Facility (WPCF) discharge permit. Discharge water samples are collected and analyzed quarterly for comparison to the permit limits as part of OM&M.

This OM&M Quarterly Report covers OM&M activities conducted during January, February, and March 2018.

1.2 Site Description

The Site is located within the City of Rome, Oneida County, New York. Refer to **Figure 1** for the Site location map. The Site consists of an approximately 22 acre parcel owned by National Grid. MGP operations formerly covered the northern half of the Site. National Grid presently operates and maintains a natural gas valving station located adjacent to the terminus of Kingsley Ave.



The Site is located south of East Dominick Street, bordering a historic commercial and residential district, approximately 2,000 feet north of the confluence of the Mohawk River with the New York State Barge Canal. It is bounded by the Genesee and Mohawk Valley Railroad to the north, and the Mohawk River forms the western boundary of the Site. Whitesboro Street terminates near the southern boundary of the Site. The City of Rome Department of Public Works facility is located to the east and southeast of the Site. The Site is bounded on the south by a National Grid electric substation. Residential properties are located near the Site entrance on Kingsley Avenue.

The Site is relatively flat, with existing grades ranging from 430 to 442 feet above mean sea level. The primary surface water feature in the area is the Mohawk River, which discharges into the Barge Canal approximately 2,000 feet downstream toward the south. The groundwater flow direction in both the water table aquifer (near surface) and deep aquifer (within the overburden above the clay) is toward the south-southwest. Depth to groundwater generally ranges from 2 to 15 feet below ground surface at the Site.

1.3 Site History

The Kingsley Avenue MGP was constructed in 1917. Gas production began at the Site in 1917 and peaked in 1927. Manufactured gas was produced at the Site using the coal gas and water gas processes. Coal carbonization produced coal gas by heating coal in retorts or beehive ovens. The water gas process involved the passage of steam through burning coal. This formed a gaseous mixture that was passed through a super heater into which an oil feed stock was sprayed. In each process, the gas produced was condensed and purified prior to distribution. The production of manufactured gas created many by-products, some of which remain onsite. A dense, oily liquid known as coal tar condensed out of the gas at various stages during its production, purification, and distribution. Although much of the coal tar produced was reused, recovery of the coal tar waste was incomplete. Substantial amounts of coal tar leaked from storage and processing facilities, contaminating surface and subsurface soils, as well as groundwater. Another by-product includes the discarded lime and/or wood chips treated with iron oxides to remove cyanide and sulfur from the gas (known as purifier waste).

By 1930, production of gas at the Kingsley Avenue MGP was limited to emergency capacity, as the supply of gas for the City of Rome came from other facilities. Between 1938 and 1941, the retort house and relief holder were decommissioned. By 1949, gas manufacturing equipment had been removed from the central building. In 1959, the main gas holder was dismantled.

Environmental concerns at the Site caused NYSDEC and the United States Environmental Protection Agency (USEPA) to evaluate the need for investigation and remedial action. Regulators typically define a single site into a number of Operable Units (OU). An OU, for technical or administrative reasons, can be addressed separately to eliminate or mitigate a release, threat of release, or exposure pathway resulting from the Site contamination. The lead agency, NYSDEC, defined OUs: OU-1 and OU-2. NYSDEC continues to administer the Site under a Consent Order with National Grid. OU-1 includes the former Kingsley Avenue MGP property, the surface soils of a small contiguous area of undeveloped New York State-owned land along the Mohawk River, and sediments in a backwater area west of the Site. OU-2 includes an approximate 2-acre area between the National Grid property and the eastern shore of the Mohawk



River. Additionally, OU-2 includes the area beneath the Mohawk River and property west of the Mohawk River to East Westboro Street. OU-2 encompasses approximately 20 acres of land. Refer to **Figure 2** for a depiction of OU-1 and OU-2.

This report is focused on OU-1. The following provides a general chronology of key events related to OU-1.

- 1987 – USEPA Preliminary Assessment
- 1992 – Preliminary Site Assessment/Interim Remedial Measures (IRM) Work Plan
- May 1994 – Concentrator House IRM
- July 1994 – Start of Remedial Investigation
- January 1995 – Purifier Disposal Area IRM
- July 1998 – Light non-aqueous phase liquid (LNAPL) Removal IRM initiated
- March 1999 – Remedial Investigation Report
- December 2001 – Offsite Remedial Investigation Report complete
- January 2002 – OU-1 Feasibility Study complete
- March 2002 – OU-1 Record of Decision (ROD) issued by NYSDEC
- August 2006 – Remedial Design approved
- August 2007 – Remedial Action started
- December 2010 – Remedial Action completed
- January 2011 – long-term groundwater and LNAPL and DNAPL monitoring commenced
- December 2011 – long-term groundwater extraction system OM&M commenced
- November 2012 – chemical treatment system for the extraction manhole completed

The remedial elements for OU-1 that have been completed include:

- Utility relocation.
- DNAPL and LNAPL source area soil removal and offsite thermal treatment/disposal.
- Purifier waste material removal and offsite disposal.
- River bank soil removal and offsite disposal.
- Demolition and offsite disposal of the MGP tar well and holder foundations.
- Installation of a sheet pile cutoff wall to contain and minimize offsite migration of DNAPL.
- Installation of a groundwater extraction trench with passive recovery pipe along the upgradient side of the wall. The trench includes a series of collection manholes/sumps. Submersible pumps deliver untreated groundwater to a sanitary manhole under an existing City of Rome WPCF.

- Installation of a 14-acre soil cover in the northern portion of the Site.
- The two foot thick vegetative cover (clean soil above geotextile layer).
- Installation of eight DNAPL collection wells within known source areas.
- Installation of five groundwater monitoring wells along the extraction trench.
- Installation of 16 groundwater monitoring wells to monitor shallow and deep aquifers.
- Installation of five groundwater monitoring wells within the OU-2 area.
- An Environmental Easement has been placed on the property and is included with the latest Site Management Plan, currently under review by the NYSDEC.

Figure 3 presents the monitoring well locations for the western portion of the Site. **Figure 4** presents monitoring well locations for the eastern portion of the Site.

Following start-up of the groundwater extraction system, it became apparent that iron fouling would be an operational issue. Therefore, National Grid installed a chemical treatment system to help protect the groundwater wells, piping, and submersible pump associated with the groundwater extraction system. As part of the chemical treatment system, a weather-proof structure was installed adjacent to the groundwater pumping manhole and houses a chemical tote and chemical feed pump. An environmental friendly iron inhibitor (REDUX 340) is injected into the pumping manhole to protect the submersible pump, piping, and metering instruments. This chemical is used at similar National Grid sites across central and eastern New York State in order to minimize iron fouling and reduce operation and maintenance costs and has been approved by the City of Rome publicly owned treatment works (POTW). The chemical treatment system became operational in November 2012.

2 Operation, Maintenance, and Monitoring Activities

2.1 Quarterly Site Inspection

GES conducted the 2018 1st quarter site inspection on March 22, 2018. Inspections are generally conducted in March, June, September, and December of each year. The Site inspection included the Site wells, security perimeter fence/gates, drainage system, vegetation, and the Site access road. In general, the Site was noted to be in good condition during the inspection. Refer to **Appendix A** for the Site Inspection Form.

There are 34 total site wells that were inspected as part of this event. **Figures 3** and **4** show the well locations. **Table 2** details each well in terms of horizontal location, vertical elevation, diameter, material, and screen elevation.

2.2 Quarterly Static Water Level Measurements

Quarterly static water level measurements were collected from the 34 wells on March 21, 2018. **Table 3** presents historical and recent static water level measurements. Refer to **Appendix B** for the field log sheet with water level measurements.

Prior to the construction of the barrier wall and groundwater extraction trench/system remedy, groundwater generally flowed northwesterly toward the Mohawk River. The remedy was designed and constructed to intercept that groundwater flow pattern and minimize migration of site-related DNAPL from the upgradient side of the barrier wall to the river. To ensure that the barrier wall meets the intent of the remedial action, it was agreed by NYSDEC and National Grid that the long-term compliance mechanism would be to compare the top of steel sheeting barrier wall (generally 435 to 437 feet above sea level) with the groundwater levels immediately upgradient of the barrier wall.

Eight manholes (MH-2, MH-3, MH-4, MH-5, MH-6, MH-6A, MH-7, and MH-8) and ten groundwater monitoring wells (DNAPL-2, DNAPL-3, DNAPL-4, DNAPL-5, DNAPL-6, VTW-1, VTW-2, VTW-3, VTW-4, and VTW-5) were constructed immediately upgradient of the barrier wall within the gravel extraction trench. The static water levels in each of the upgradient groundwater monitoring wells were measured and found to be between 425 and 430 (**Table 3**) feet above sea level since start-up of the groundwater extraction system. Groundwater does not overtop the barrier wall. **Figure 5** presents the groundwater levels compared to the barrier wall profile. Gauging data for all 34 wells and containment data for the 10 upgradient groundwater monitoring wells are presented in **Appendix B**.

2.3 Quarterly Groundwater Monitoring Event

The 2018 1st quarter groundwater monitoring event was conducted on March 21, 2018. Sixteen groundwater monitoring wells were sampled (LTMW-D01, LTMW-S01, LTMW-D02, LTMW-S02, LTMW-D03, LTMW-S03, LTMW-D04, LTMW-S04, LTMW-D05, LTMW-S05, LTMW-D06, LTMW-S06, LTMW-S07, LTMW-S08, LTMW-S09, LTMW-S10).



The wells were sampled in accordance with USEPA Low-Flow Groundwater Sampling Procedures [1996]. Purge water was contained and subsequently discharged to the onsite groundwater extraction system which discharges water to the City of Rome WPCF. Field measurements (temperature, pH, oxidation-reduction potential, conductivity, turbidity, dissolved oxygen, and total dissolved solids) were recorded at each well during the sampling using a water quality meter and are presented in **Appendix C**.

In addition to the 16 water samples collected, four quality assurance/quality control (QA/QC) samples were collected, including one Matrix Spike sample, one Matrix Spike Duplicate sample, one field duplicate sample, and one trip blank sample. Twenty total samples were shipped on ice to the Pace Analytical Services, LLC (Pace) of Greensburg, Pennsylvania, for laboratory analysis. Analyses included: polycyclic aromatic hydrocarbons (PAHs) via USEPA Method 8270D; benzene, toluene, ethylbenzene, and total xylenes (BTEX) via USEPA Method 8260C; heavy metals via USEPA Method 200.7; and total cyanide via USEPA Method 335.4.

The analytical results included detections of BTEX, acenaphthene, benzo(a)anthracene, chrysene, cyanide, fluorene, and naphthalene above the New York State regulatory maximum allowable limits. Additionally, analytical results at LTMW-S03 indicated zinc levels above the guidance value provided in NYSDEC's Technical and Operational Guidance Series section 1.1.1. A summary of laboratory analytical results is provided in **Table 4**. Of the 16 wells sampled, LTMW-D01 and LTMW-D03 had BTEX concentrations above the New York State Groundwater Ambient Water Quality Standards (AWQS). Results indicated no detections of any compound for LTMW-D04, LTMW-D05, LTMW-S07, and LTMW-S09.

The analytical data report was validated by GES. The primary objective of the data validation is to identify any questionable or invalid laboratory processes or data. The data validator reviewed the summary form information, the raw sample data, and a limited review of associated raw QC data. In summary, sample results are usable as reported, with a potential low bias in the PAH analyses due to low surrogate recoveries. Qualifications are detailed in Table 1 of Appendix D, which presents the Data Usability Summary Report (DUSR) including the validated laboratory data.

2.4 Quarterly Light Non-Aqueous Phase Liquid and Dense Non-Aqueous Phase Liquid Monitoring/Collection Event

Each of the 34 wells was monitored for LNAPL and DNAPL in March for this quarter. The gauging data for these events are presented in **Appendix B**. This activity is conducted in conjunction with the collection of static water level measurements. A probe is lowered to the water level in the well and inspected for LNAPL. The probe is then lowered to the bottom of the well and inspected for DNAPL. If LNAPL or DNAPL is discovered in measurable quantities, product is removed from the well using a submersible pump. The removed product/water mixture is subsequently containerized in a properly labeled NYSDOT-approved 55-gallon drum for future offsite disposal.



DNAPL in measurable quantities was noted in two site wells: MW-OU2-1 and MW-OU2-4. Additionally, a trace amount of DNAPL was detected in well DNAPL-03.

As part of the NAPL monitoring/collection event, a total of 10.0 gallons of DNAPL were collected (5.0 gallons from MW-OU2-1 and 5.0 gallons from MW-OU2-4) during this quarter.

Since the start of the NAPL monitoring/collection program, a total of 483 gallons of DNAPL have been removed for offsite disposal. Zero gallons of LNAPL have been detected/recovered.

2.5 Quarterly Groundwater Extraction System Discharge Sampling Event

Under an existing City of Rome WPCF discharge permit, quarterly sampling, analysis, and reporting of the groundwater extraction system discharge to the local sewer system is required. A water sample was collected on March 27, 2018, and analyzed by Pace for the permit-specified parameters. No detections above permit limits were noted. **Table 5** provides the analytical results compared to the permit limits.

The analytical data report was validated by GES. The primary objective of the data validation is to identify any questionable or invalid laboratory processes or data. The validator reviewed the summary form information, the raw sample data, and a limited review of associated raw QC data. The review stated that field sample analyte values/reporting limits were usable as reported. The DUSR including the validated laboratory data is presented in **Appendix D**.

2.6 Groundwater Extraction System Discharge Flow and Operation, Maintenance, and Monitoring

The groundwater extraction system consists of a gravel trench, a pumping manhole, dual submersible pumps, and below ground piping. The piping enters the onsite groundwater treatment building where flow measurements, discharge sampling, pressure measurements, and other OM&M activities can be conducted. The piping then continues below ground from the nearby sanitary sewer manhole to the City of Rome WPCF.

A mechanical flow meter is located within the Site building and serves as the recording device for the City of Rome WPCF discharge fees. During the 2018 1st quarter, approximately 3,520,189 gallons (average flow ~ 27.8 gpm) were discharged. Since the groundwater extraction system was installed, approximately 130 million gallons have been discharged. Below is a summary table for the groundwater extraction system discharge flow:



Table 1 – Groundwater Extraction System Discharge Flow

Time Period	Discharge Flow (gallons)
2010	11,600,000
2011	14,400,000
2012	19,900,000
2013	19,500,000
2014	16,500,000
2015	16,686,700
2016	13,695,010
2017	13,874,930
2018 1 st Quarter	3,520,189
TOTAL	129,676,829

The previous consultant conducted an evaluation of the groundwater extraction system, including inspections of the extraction manhole, submersible pumps, valving/controls, and clean-outs. Iron fouling throughout the system, particularly scaling on the submersible pumps, piping, and metering instruments, had been observed. As such, a chemical scale inhibitor (Redux 340) system, which applies the Redux 340 at the groundwater extraction manhole/submersible pumps, was installed and became operational in November 2012. A heating element located at the pumping manhole was installed in June 2012. Electrical power and building lighting/heating was installed in August/September 2012. Information regarding the environmentally-friendly, iron scale inhibitor was previously provided to the City of Rome POTW. The groundwater treatment system (including pumping station, conveyance piping, and flow meters) was cleaned (water lancing) during September 2012 in order to remove iron scale build-up in advance of the chemical treatment system installation.

2.7 Vegetation Management and Snow Removal

Snow removal activities were conducted during the first quarter 2018 as needed. Vegetation management activities will begin in May 2018.

3 Conclusions, Recommendations, and Certifications

3.1 Conclusions

Based on data collected from the 2018 1st quarter OM&M activities, the following conclusions were made:

- The overall condition of the Site is good. Snow removal was conducted as needed during 1st quarter 2018. Routine mowing and weed spraying activities will be scheduled to begin in 2nd quarter 2018.
- Quarterly static water level measurements were collected at ten groundwater monitoring wells upgradient of the steel sheeting barrier within the gravel extraction trench. The static water levels of the upgradient wells (ranging between 425 to 430 feet above sea level) did not overtop the barrier wall (top of wall ranges between 435 to 437 feet above sea level).
- Site groundwater contained detectable concentrations of BTEX, acenaphthene, benzo(a)anthracene, chrysene, cyanide, fluorene, and naphthalene above the New York State regulatory maximum allowable limits. Additionally, analytical results for well LTMW-S03 indicated zinc concentrations above the NYSDEC AWQS guidance value. Six of the 16 wells (LTMW-D01, LTMW-S01, LTMW-D03, LTMW-S04, LTMW-S05, and LTMW-S10) sampled had at least one detection of a site-related constituent above the New York State limits.
- The total quarterly volume of DNAPL collected (10.0 gallons) was removed from two wells (MW-OU2-1 and MW-OU2-4). 483 gallons of DNAPL have been removed from these wells since the inception of the program. LNAPL has not been observed in any site wells to date.
- The groundwater extraction system operated continuously at an average flow rate of approximately 27.8 gpm, and a quarterly total of 3,520,189 gallons were discharged to the local sanitary sewer in accordance with the City of Rome WPCF discharge permit. A quarterly effluent water sample was collected and analyzed. There were no permit limit exceedances. Since December 2011, approximately 130 million gallons of water have been discharged without any permit limit exceedances.

3.2 Recommendations

It is recommended that all OM&M activities continue.

3.3 Certifications

I certify the following:

- The inspection of the Site to confirm the effectiveness of the institutional and engineering controls required by the remedial program was performed under my direction;
- The institutional controls and engineering controls employed at this site are unchanged from the date the controls were put in place, or last approved by the Department;
- Nothing has occurred that would impair the ability of the controls to protect the public health and environment;
- Nothing has occurred that would constitute a violation or failure to comply with any SMP for this control;
- Access to the Site will continue to be provided to the Department to evaluate the remedy, including access to evaluate the continued maintenance of the controls;
- Use of the Site is compliant with the Declarations of Covenants and Restrictions;
- The engineering control systems are performing as designed and are effective;
- 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
- The information presented in this report is accurate and complete.

Signature

Name: Gerald H. Cresap, P.E.

Title: Director of Engineering

Company: Groundwater & Environmental Services, Inc.

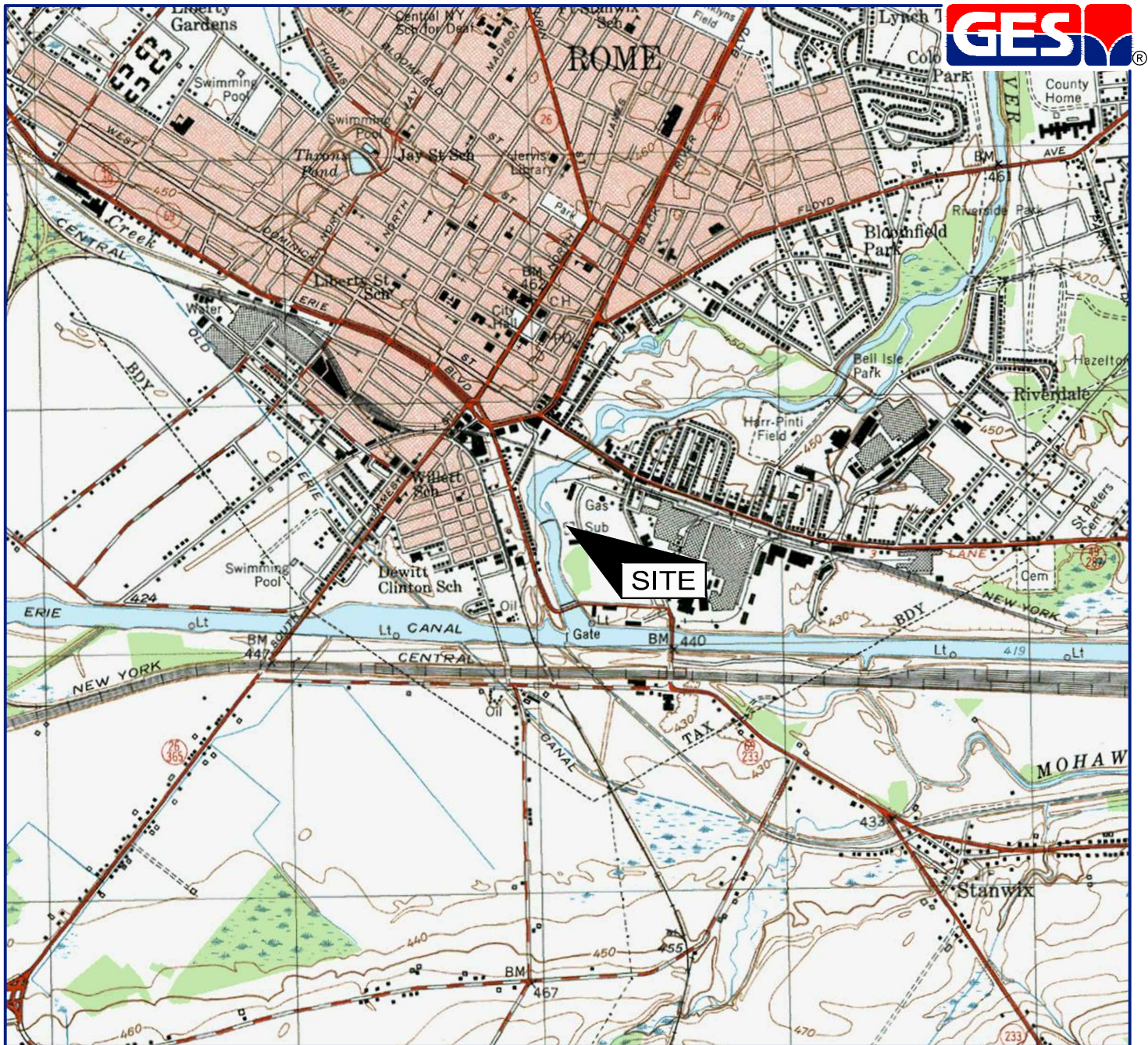
Date

4-30-2018





Figures

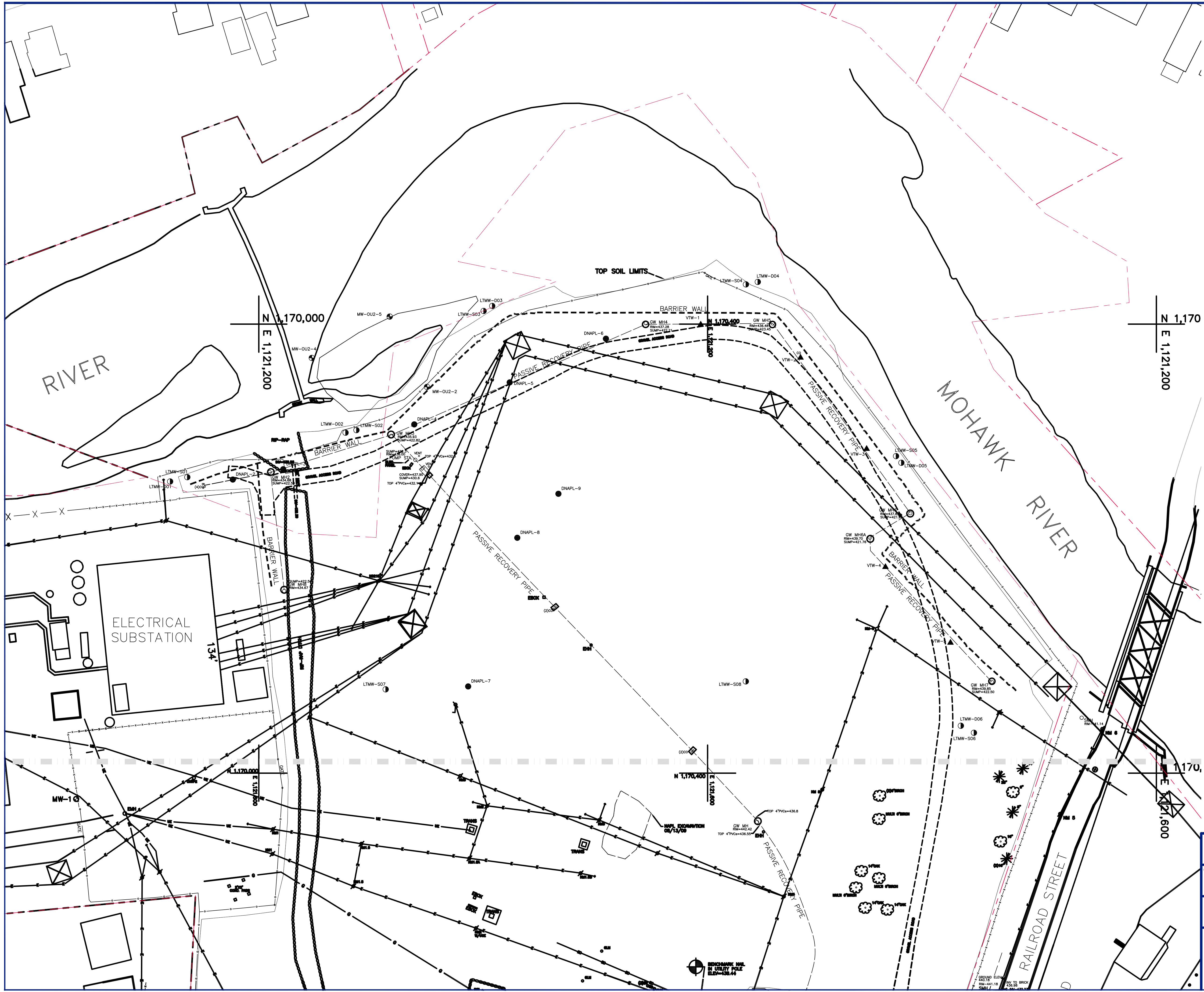


SOURCE: USGS 7.5 MINUTE SERIES
TOPOGRAPHIC QUADRANGLE 1955
ROME, NEW YORK
CONTOUR INTERVAL = 10'



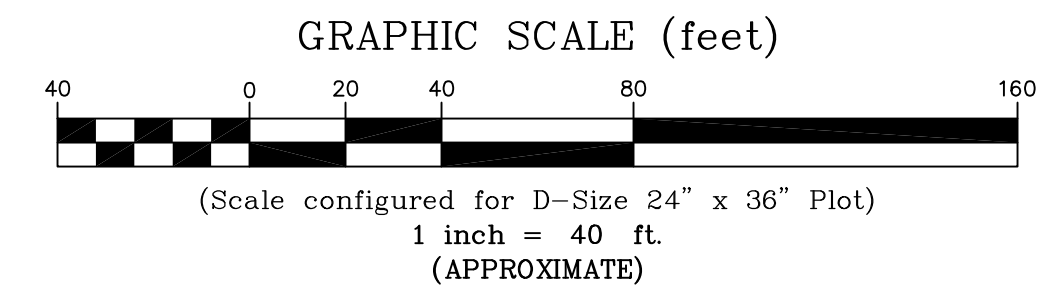
QUADRANGLE LOCATION

DRAFTED BY: W.G.S.	SITE LOCATION MAP		
CHECKED BY:	NATIONAL GRID KINGSLEY AVENUE ROME, NEW YORK		
REVIEWED BY:			
NORTH 	Groundwater & Environmental Services, Inc. 5 TECHNOLOGY PLACE, SUITE 4, EAST SYRACUSE, NY 13057		
	SCALE IN FEET 	DATE 10-17-16	FIGURE 1

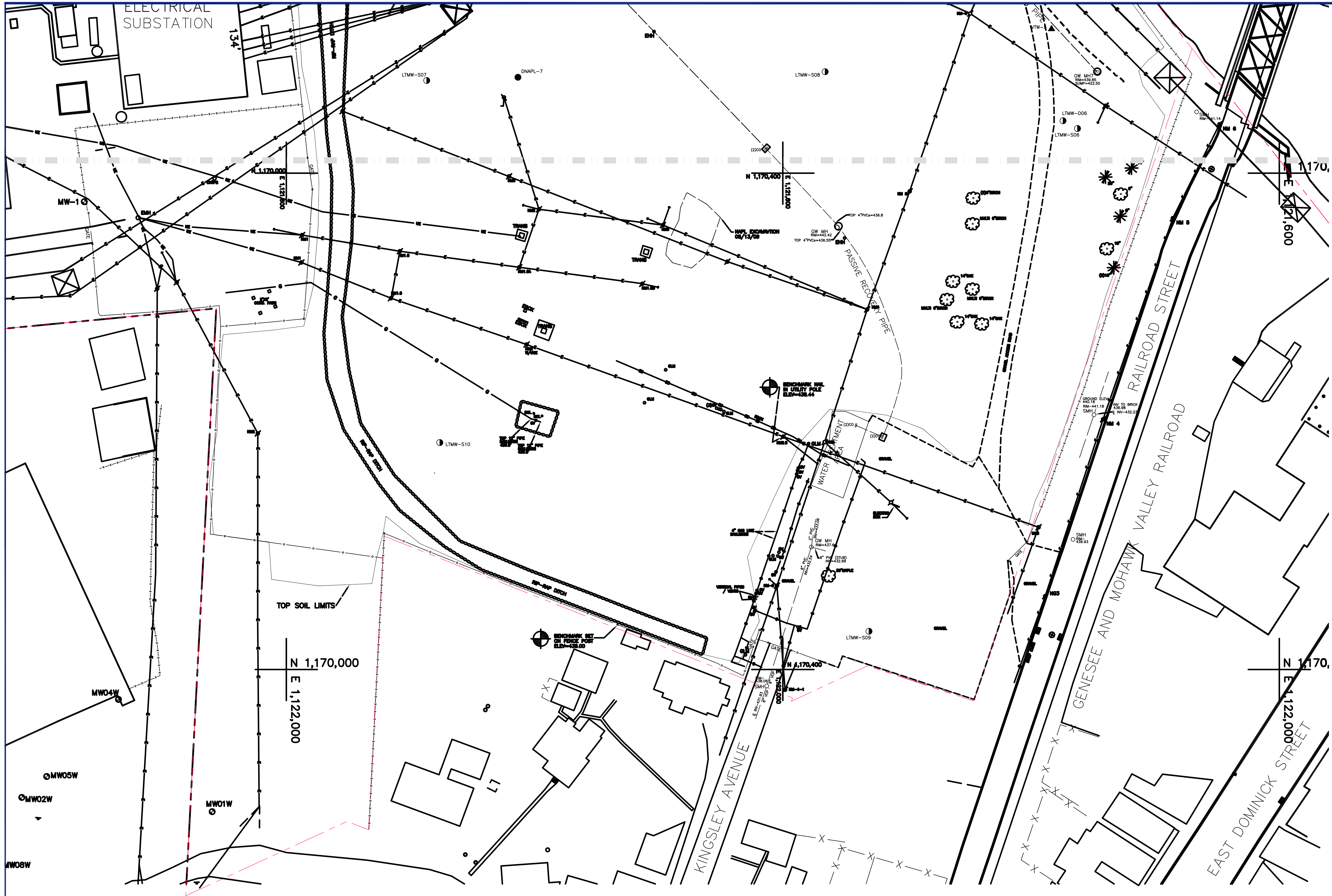


- LEGEND
- PROPERTY BOUNDARY
 - EAST WEST DIVIDE
 - FENCE
 - UTILITY POLE
 - UNDERGROUND ELECTRIC LINE
 - UNDERGROUND GAS LINE
 - OVERHEAD ELECTRIC
 - ELECTRICAL CONDUIT
 - UNDERGROUND WATER LINE
 - LTMW-D01
 - VTW-1
 - MW-OU2-1

WELL	NORTHING	EASTING	CASING	PVC	GROUND
LTMW-S01	1169936.2970	1121336.3233	435.52	435.10	433.2
LTMW-D01	1169920.9810	1121340.1793	434.90	434.80	432.7
LTMW-S02	1170087.0350	1121294.4073	436.79	436.59	434.3
LTMW-D02	1170077.3450	1121296.6553	436.74	436.60	434.2
LTMW-S03	1170200.4014	1121188.2719	431.43	431.29	429.3
LTMW-D03	1170208.0726	1121183.8138	431.27	431.13	429.2
LTMW-S04	1170434.1910	1121184.5883	437.24	437.09	435.6
LTMW-D04	1170444.1690	1121182.3583	437.18	436.88	434.9
LTMW-S05	1170567.9900	1121317.5703	437.92	437.77	435.9
LTMW-D05	1170572.7400	1121323.4973	437.78	437.58	435.7
LTMW-S06	1170637.4230	1121564.0283	441.64	441.52	439.7
LTMW-D06	1170625.7620	1121557.7643	441.70	441.55	440.2
LTMW-S07	1170113.1090	1121525.3273	439.94	439.70	438.0
LTMW-D08	1170434.0830	1121518.2593	443.81	443.63	442.4
LTMW-S09	1170469.4300	1121969.1733	439.78	439.54	437.6
LTMW-S10	1170123.6800	1121817.1213	439.67	439.42	437.4
DNAPL-2	1169976.8400	1121338.4483	436.81	no pipe	434.6
DNAPL-3	1170021.7760	1121329.2613	437.23	no pipe	434.6
DNAPL-4	1170138.5720	1121289.3033	438.50	no pipe	436.3
DNAPL-5	1170223.6230	1121251.9083	440.60	no pipe	438.4
DNAPL-6	1170309.3920	1121212.9643	439.71	no pipe	438.0
DNAPL-7	1170186.6060	1121522.7453	441.46	no pipe	439.4
DNAPL-8	1170230.3820	1121390.3173	441.80	no pipe	439.6
DNAPL-9	1170267.0450	1121351.1333	442.63	no pipe	440.1
MW-OU2-1	1169964.4870	1121322.8873	435.72	435.48	433.5
MW-OU2-2	1170149.8980	1121255.9363	436.40	436.06	433.9
MW-OU2-3					
MW-OU2-4	1170047.2131	1121230.1096			
MW-OU2-5	1170116.6727	1121193.2720			
VTW-1	1170393.9230	1121200.2643	439.74	no pipe	437.7
VTW-2	1170482.8870	1121229.5033	438.33	no pipe	436.1
VTW-3	1170541.8140	1121311.1743	439.44	no pipe	437.1
VTW-4	1170558.5060	1121416.3693	441.59	no pipe	439.3
VTW-5	1170616.4890	1121483.6873	441.79	no pipe	439.8

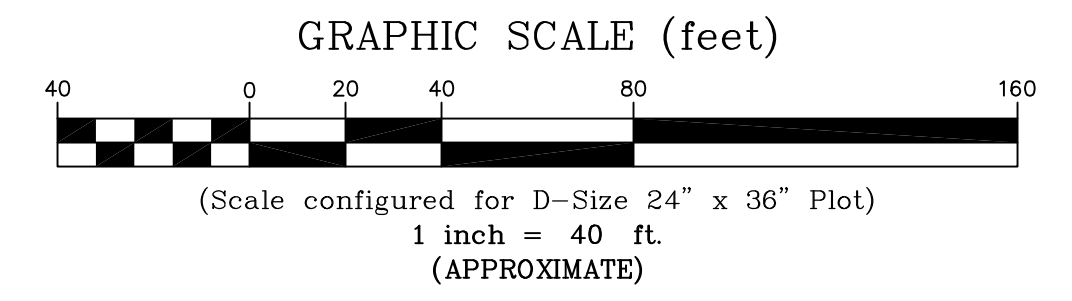


DRAFTED BY: W.G.S.	SITE MAP-WEST	
CHECKED BY:	NATIONAL GRID KINGSLEY AVENUE ROME, NEW YORK	
REVIEWED BY:	Groundwater & Environmental Services, Inc. 5 TECHNOLOGY PLACE, SUITE 4, EAST SYRACUSE, NY 13057	
NORTH	DATE 10-27-16	FIGURE 3

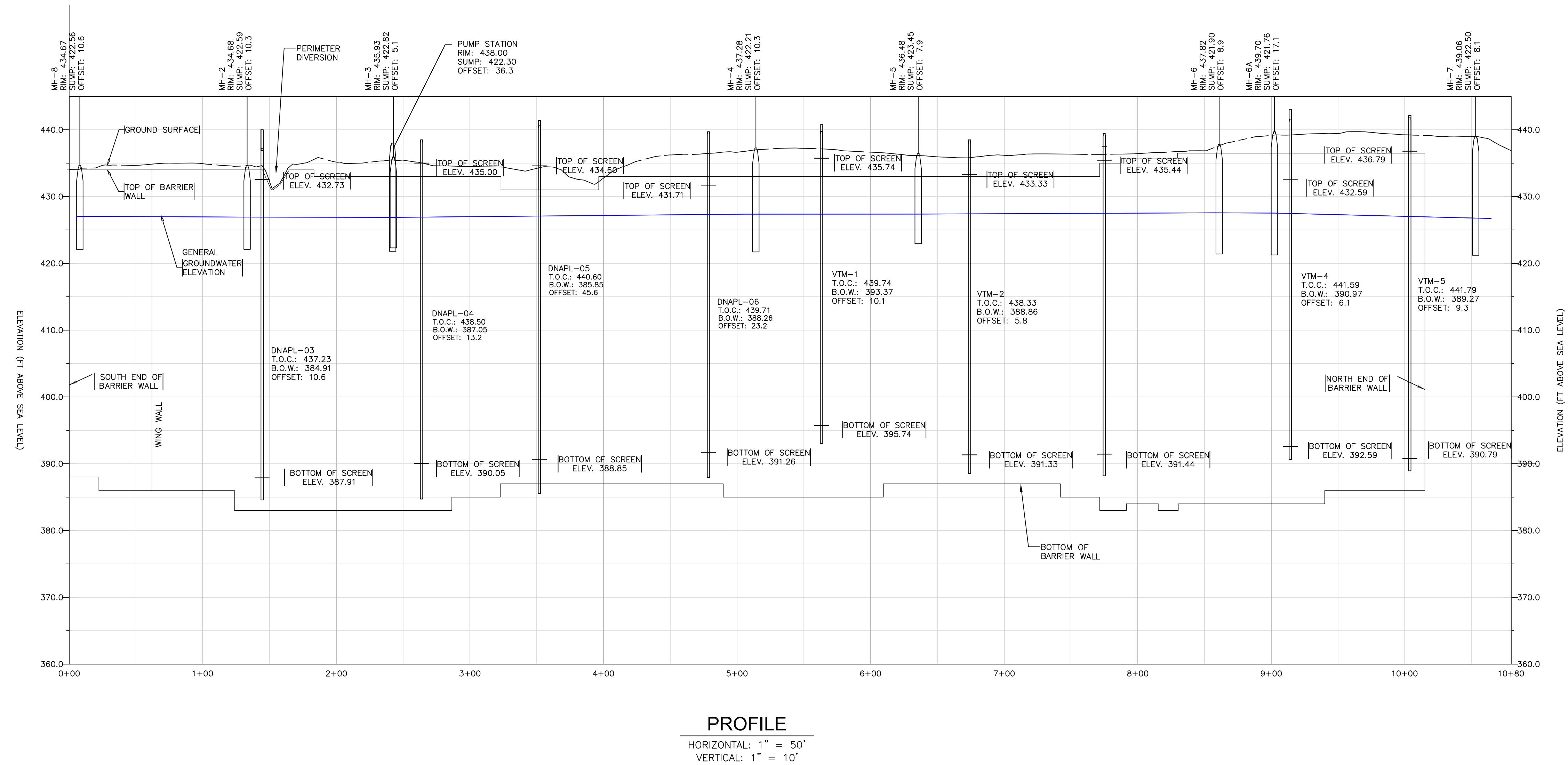


- LEGEND
- PROPERTY BOUNDARY
 - EAST WEST DIVIDE
 - FENCE
 - UTILITY POLE
 - UNDERGROUND ELECTRIC LINE
 - UNDERGROUND GAS LINE
 - OVERHEAD ELECTRIC
 - ELECTRICAL CONDUIT
 - UNDERGROUND FIBER OPTIC LINE
 - LTMW MONITORING WELL
 - VTW MONITORING WELL
 - OU2 MONITORING WELL

WELL	NORTHING	EASTING	CASING	PVC	GROUND
LTMW-S01	1169936.2970	1121336.3233	435.52	435.10	433.2
LTMW-D01	1169920.9810	1121340.1793	434.90	434.80	432.7
LTMW-S02	1170087.0350	1121294.4073	436.79	436.59	434.3
LTMW-D02	1170077.3450	1121296.6853	436.74	436.60	434.2
LTMW-S03	1170200.4014	1121188.2719	431.43	431.29	429.3
LTMW-D03	1170208.0726	1121183.8138	431.27	431.13	429.2
LTMW-S04	1170434.1910	1121184.5883	437.24	437.09	435.6
LTMW-D04	1170444.7890	1121162.3583	437.18	436.88	434.9
LTMW-S05	1170567.9900	1121317.5703	437.92	437.77	435.9
LTMW-D05	1170572.7400	1121323.4973	437.78	437.58	435.7
LTMW-S06	1170637.4230	1121564.0263	441.64	441.52	439.7
LTMW-D06	1170625.7620	1121557.7643	441.70	441.55	440.2
LTMW-S07	1170113.1090	1121525.3273	439.94	439.70	438.0
LTMW-S08	1170434.0830	1121518.2593	443.81	443.63	442.4
LTMW-S09	1170469.4300	1121969.1733	439.79	439.54	437.6
LTMW-S10	1170123.6800	1121817.1213	439.67	439.42	437.4
DNAPL-2	1169976.8400	1121338.4483	436.81	no pipe	434.6
DNAPL-3	1170021.7760	1121329.2613	437.23	no pipe	434.6
DNAPL-4	1170138.5720	1121289.3033	438.50	no pipe	436.3
DNAPL-5	1170223.6230	1121251.9083	440.60	no pipe	438.4
DNAPL-6	1170309.3920	1121212.9643	439.71	no pipe	438.0
DNAPL-7	1170186.6060	1121522.7453	441.46	no pipe	439.4
DNAPL-8	1170230.3820	1121390.3173	441.80	no pipe	439.6
DNAPL-9	1170267.0450	1121351.1333	442.63	no pipe	440.1
MW-OU2-1	1169964.4870	1121322.8873	435.72	435.48	433.5
MW-OU2-2	1170149.8980	1121255.9363	436.40	436.06	433.9
MW-OU2-3					
MW-OU2-4	1170047.2131	1121230.1096			
MW-OU2-5	1170116.6727	1121193.2720			
VTW-1	1170393.9230	1121200.2643	439.74	no pipe	437.7
VTW-2	1170482.8870	1121229.5033	438.33	no pipe	436.1
VTW-3	1170541.8140	1121311.1743	439.44	no pipe	437.1
VTW-4	1170558.5060	1121416.3693	441.59	no pipe	439.3
VTW-5	1170616.4890	1121483.6873	441.79	no pipe	439.8



DRAFTED BY: W.G.S.	SITE MAP-EAST		
CHECKED BY:	NATIONAL GRID KINGSLEY AVENUE ROME, NEW YORK		
REVIEWED BY:	Groundwater & Environmental Services, Inc. 5 TECHNOLOGY PLACE, SUITE 4, EAST SYRACUSE, NY 13057		
NORTH 	DATE	FIGURE	
	10-27-16	4	



- LEGEND
- T.O.C. TOP OF CASING
 - B.O.W. BOTTOM OF WELL
 - TOP OF WALL
 - GROUNDWATER ELEVATION (JUNE 2012)

- NOTES:
- THE DEPTH OF THE BARRIER WALL IS APPROXIMATELY 50 FEET.
 - GROUNDWATER ELEVATION MEASUREMENTS TAKEN JUNE 2012.

DRAFTED BY:	BARRIER WALL PROFILE		
W.G.S.			
CHECKED BY:	NATIONAL GRID		
	KINGSLEY AVENUE		
REVIEWED BY:	ROME, NEW YORK		
NORTH	Groundwater & Environmental Services, Inc.		
	300 GATEWAY PARK DRIVE, NORTH SYRACUSE, NY 13212		
	DATE	FIGURE	
	10-17-16	5	



Tables

Table 2
Site Monitoring Wells

Well ID	Northing	Easting	Elevation of Ground	Elevation Top of Outer Casing	Elevation Top of Inner Casing	Nominal Well Diameter (inches)	Well Material	Well Sump Depth (ft)	Depth to Bottom of Well (ft)	Elevation Bottom of Well	Depth to Top Screen (ft)	Elevation Top Screen	Depth to Bottom Screen (ft)	Elevation Bottom Screen	Action
MW-OU2-1	1169964.4870	1121322.8873	433.5	435.72	435.48	4	SS	3.0	46.12	389.36	33.0	402.48	43.0	392.48	Quarterly Inspection; Quarterly Static Water Level Measurement
MW-OU2-2	1170149.8980	1121255.9363	433.9	436.40	436.06	4	SS	3.0	49.60	386.46	39.0	397.06	49.0	387.06	Quarterly Inspection; Quarterly Static Water Level Measurement
MW-OU2-3	1170101.2208	1121177.4485	430.63	433.25	432.96	4	SS	3.0	35.15	397.81	31.0	401.96	41.0	391.96	Quarterly Inspection; Quarterly Static Water Level Measurement (Surveyed in January 2014)
MW-OU2-4	1170149.6326	1121136.1811	430.63	433.05	432.88	4	SS	3.0	38.85	394.03	31.0	401.88	41.0	391.88	Quarterly Inspection; Quarterly Static Water Level Measurement (Surveyed in January 2014)
MW-OU2-5	1170167.9650	1121091.2658	431.23	433.77	433.46	4	SS	3.0	36.34	397.12	31.0	402.46	41.0	392.46	Quarterly Inspection; Quarterly Static Water Level Measurement (Surveyed in January 2014)
DNAPL-02	1169976.8400	1121338.4483	434.6	436.81	NA	6	SS	3.0	50.40	386.41	4.0	432.81	46.0	389.41	Quarterly Inspection; Quarterly Static Water Level Measurement; DNAPL Monitoring/Collection
DNAPL-03	1170021.7760	1121329.2613	434.6	437.23	NA	6	SS	3.0	52.32	384.91	4.5	432.73	46.5	387.91	Quarterly Inspection; Quarterly Static Water Level Measurement; DNAPL Monitoring/Collection
DNAPL-04	1170138.5720	1121289.3033	436.3	438.50	NA	6	SS	3.0	51.45	387.05	3.5	435.00	47.5	390.05	Quarterly Inspection; Quarterly Static Water Level Measurement; DNAPL Monitoring/Collection
DNAPL-05	1170223.6230	1121251.9083	438.4	440.60	NA	6	SS	3.0	54.75	385.85	6.0	434.60	50.0	388.85	Quarterly Inspection; Quarterly Static Water Level Measurement; DNAPL Monitoring/Collection
DNAPL-06	1170309.3920	1121212.9643	438	439.71	NA	6	SS	3.0	51.45	388.26	8.0	431.71	48.0	391.26	Quarterly Inspection; Quarterly Static Water Level Measurement; DNAPL Monitoring/Collection
DNAPL-07	1170186.6060	1121522.7453	439.4	441.46	NA	6	SS	3.0	53.60	387.86	5.0	436.46	55.5	390.86	Quarterly Inspection; Quarterly Static Water Level Measurement; DNAPL Monitoring/Collection
DNAPL-08	1170230.3820	1121390.3173	439.6	441.80	NA	6	SS	3.0	58.01	383.79	7.0	434.80	53.0	386.79	Quarterly Inspection; Quarterly Static Water Level Measurement; DNAPL Monitoring/Collection
DNAPL-09	1170267.0450	1121351.1333	440.1	442.63	NA	6	SS	3.0	57.58	385.05	5.0	437.63	53.2	388.05	Quarterly Inspection; Quarterly Static Water Level Measurement; DNAPL Monitoring/Collection
VTM-1	1170393.9230	1121200.2643	437.7	439.74	NA	6	SS	NA	46.37	393.37	4.0	435.74	44.0	395.74	Quarterly Inspection; Quarterly Static Water Level Measurement
VTM-2	1170482.8870	1121229.5033	436.1	438.33	NA	6	SS	NA	49.47	388.86	5.0	433.33	47.0	391.33	Quarterly Inspection; Quarterly Static Water Level Measurement
VTM-3	1170541.8140	1121311.1743	437.1	439.44	NA	6	SS	NA	50.91	388.53	4.0	435.44	48.0	391.44	Quarterly Inspection; Quarterly Static Water Level Measurement
VTM-4	1170558.5060	1121416.3693	439.3	441.59	NA	6	SS	NA	50.62	390.97	9.0	432.59	49.0	392.59	Quarterly Inspection; Quarterly Static Water Level Measurement
VTM-5	1170616.4890	1121483.6873	439.8	441.79	NA	6	SS	NA	52.52	389.27	5.0	436.79	51.0	390.79	Quarterly Inspection; Quarterly Static Water Level Measurement
LTMW-D01	1169920.9810	1121340.1793	432.7	434.90	434.80	2	PVC	NA	46.84	387.96	34.0	400.80	44.0	390.80	Quarterly Inspection; Quarterly Static Water Level Measurement; Quarterly Sampling
LTMW-S01	1169936.2970	1121336.3233	433.2	435.52	435.10	2	PVC	NA	16.92	418.18	5.0	430.10	15.0	420.10	Quarterly Inspection; Quarterly Static Water Level Measurement; Quarterly Sampling
LTMW-D02	1170077.3450	1121296.6853	434.2	436.74	436.60	2	PVC	NA	40.29	396.31	30.0	406.60	40.0	396.60	Quarterly Inspection; Quarterly Static Water Level Measurement; Quarterly Sampling
LTMW-S02	1170087.0350	1121294.4073	434.3	436.79	436.59	2	PVC	NA	17.98	418.61	5.0	431.59	15.0	421.59	Quarterly Inspection; Quarterly Static Water Level Measurement; Quarterly Sampling
LTMW-D03	1170208.0726	1121183.8138	429.2	431.27	431.13	2	PVC	NA	40.73	390.40	29.0	402.13	39.0	392.13	Quarterly Inspection; Quarterly Static Water Level Measurement; Quarterly Sampling
LTMW-S03	1170200.4014	1121188.2719	429.3	431.43	431.29	2	PVC	NA	13.70	417.59	2.0	429.29	12.0	419.29	Quarterly Inspection; Quarterly Static Water Level Measurement; Quarterly Sampling
LTMW-D04	1170444.7690	1121162.3583	434.9	437.18	436.88	2	PVC	NA	46.36	390.52	34.0	402.88	44.0	392.88	Quarterly Inspection; Quarterly Static Water Level Measurement; Quarterly Sampling
LTMW-S04	1170434.1910	1121164.5883	435.6	437.24	437.09	2	PVC	NA	17.26	419.83	5.0	432.09	15.0	422.09	Quarterly Inspection; Quarterly Static Water Level Measurement; Quarterly Sampling
LTMW-D05	1170572.7400	1121323.4973	437.7	437.78	437.58	2	PVC	NA	46.53	391.05	35.0	402.58	45.0	392.58	Quarterly Inspection; Quarterly Static Water Level Measurement; Quarterly Sampling
LTMW-S05	1170567.9900	1121317.5703	435.9	437.92	437.77	2	PVC	NA	16.83	420.94	5.0	432.77	15.0	422.77	Quarterly Inspection; Quarterly Static Water Level Measurement; Quarterly Sampling
LTMW-D06	1170625.7620	1121557.7643	440.2	441.70	441.55	2	PVC	NA	52.22	389.33	40.0	401.55	50.0	391.55	Quarterly Inspection; Quarterly Static Water Level Measurement; Quarterly Sampling
LTMW-S06	1170637.4230	1121564.0263	439.7	441.64	441.52	2	PVC	NA	17.60	423.92	5.0	436.52	15.0	426.52	Quarterly Inspection; Quarterly Static Water Level Measurement; Quarterly Sampling
LTMW-S07	1170113.1090	1121525.3273	438	439.94	439.70	2	PVC	NA	17.82	421.88	5.0	434.70	15.0	424.70	Quarterly Inspection; Quarterly Static Water Level Measurement; Quarterly Sampling
LTMW-S08	1170434.0830	1121518.2593	442.4	443.81	443.63	2	PVC	NA	17.39	426.24	5.0	438.63	15.0	428.63	Quarterly Inspection; Quarterly Static Water Level Measurement; Quarterly Sampling
LTMW-S09	1170469.4300	1121969.1733	437.6	439.79	439.54	2	PVC	NA	16.92	422.62	5.0	434.54	15.0	424.54	Quarterly Inspection; Quarterly Static Water Level Measurement; Quarterly Sampling
LTMW-S10	1170123.6800	1121817.1213	437.4	439.67	439.42	2	PVC	NA	17.18	422.24	5.0	434.42	15.0	424.42	Quarterly Inspection; Quarterly Static Water Level Measurement; Quarterly Sampling

Notes:

- 1) Shallow monitoring wells were sampled with a low flow peristaltic pump with battery pack.
- 2) Deep monitoring wells were sampled with a low flow submersible pump with generator.
- 3) Static water level measurements were taken from top of inner casing. If the well has no inner casing, the measurement will be taken from the top of outer casing.

Table 3
Historical Groundwater Data
Operable Unit 2 Wells

Well	MW-OU2-1 TOC = 435.72		Well	MW-OU2-2 TOC = 436.40		Well	MW-OU2-3 TOC = 432.96		Well	MW-OU2-4 TOC = 432.88		Well	MW-OU2-5 TOC = 433.46	
Date	DTW	Water El.	Date	DTW	Water El.	Date	DTW	Water El.	Date	DTW	Water El.	Date	DTW	Water El.
03/22/18	9.15	426.57	03/22/18	9.85	426.55	03/22/18	6.60	426.36	03/22/18	6.55	426.33	03/22/18	7.20	426.26
12/06/17	9.37	426.35	12/06/17	9.96	426.44	12/06/17	6.60	426.36	12/06/17	6.50	426.38	12/06/17	7.20	426.26
09/01/17	9.53	426.19	09/01/17	10.35	426.05	09/01/17	NM	-	09/01/17	6.98	425.90	09/01/17	7.73	425.73
06/23/17	9.35	426.37	06/23/17	10.02	426.38	06/23/17	7.10	425.86	06/23/17	6.70	426.18	06/23/17	7.15	426.31
03/08/17	8.68	427.04	03/08/17	5.94	430.46	03/08/17	5.93	427.03	03/08/17	5.94	426.94	03/08/17	6.62	426.84
12/15/16	8.91	426.81	12/15/16	9.80	426.60	12/15/16	6.42	426.54	12/15/16	6.35	426.53	12/15/16	7.02	426.44
09/19/16	9.58	426.14	09/19/16	10.52	425.88	09/19/16	7.29	425.67	09/19/16	7.15	425.73	09/19/16	7.84	425.62
06/07/16	9.45	426.27	06/07/16	10.28	426.12	06/07/16	6.95	426.01	06/07/16	6.87	426.01	06/07/16	7.57	425.89
03/07/16	8.45	427.27	03/07/16	9.28	427.12	03/07/16	5.91	427.05	03/07/16	5.82	427.06	03/07/16	6.49	426.97
12/02/15	9.30	426.42	12/02/15	10.19	426.21	12/02/15	6.85	426.11	12/02/15	6.77	426.11	12/02/15	7.44	426.02
09/16/15	9.66	426.06	09/16/15	10.47	425.93	09/16/15	7.15	425.81	09/16/15	7.05	425.83	09/16/15	7.74	425.72
06/03/15	9.34	426.38	06/03/15	9.73	426.67	06/03/15	6.41	426.55	06/03/15	6.34	426.54	06/03/15	6.95	426.51
04/08/15	8.63	427.09	04/08/15	9.29	427.11	04/08/15	6.14	426.82	04/08/15	5.96	426.92	04/08/15	6.98	426.48
12/01/14	9.32	426.40	12/01/14	9.84	426.56	12/01/14	6.49	426.47	12/01/14	6.41	426.47	12/01/14	7.08	426.38
09/10/14	9.49	426.23	09/10/14	9.89	426.51	09/10/14	7.02	425.94	09/10/14	6.95	425.93	09/10/14	7.63	425.83
06/12/14	9.58	426.14	06/12/14	10.33	426.07	06/12/14	6.99	425.97	06/12/14	6.94	425.94	06/12/14	7.63	425.83
03/25/14	9.12	426.60	03/25/14	10.22	426.18	03/25/14	6.75	426.21	03/25/14	6.85	426.03	03/25/14	7.24	426.22
12/12/13	8.47	427.25	12/12/13	9.35	427.05	12/12/13	5.92	427.04	12/12/13	5.84	427.04	12/12/13	6.51	426.95
09/23/13	9.52	426.20	09/23/13	10.32	426.08	09/23/13	7.08	425.88	09/23/13	6.98	425.90	09/23/13	7.63	425.83
06/10/13	8.46	427.26	06/10/13	9.32	427.08	06/10/13	5.78	427.18	06/10/13	5.68	427.20	06/10/13	5.35	428.11
03/27/13	9.30	426.42	03/27/13	10.11	426.29	03/27/13	6.78	426.18	03/27/13	6.95	425.93	03/27/13	7.42	426.04
12/03/12	9.49	426.23	12/03/12	10.33	426.07	12/03/12	7.02	425.94	12/03/12	6.93	425.95	12/03/12	7.70	425.76
09/12/12	9.75	425.97	09/12/12	10.63	425.77	09/12/12	7.32	425.64	09/12/12	7.25	425.63	09/12/12	8.02	425.44
06/18/12	9.51	426.21	06/18/12	10.36	426.04	06/18/12	7.05	425.91	06/18/12	6.95	425.93	06/18/12	7.69	425.77
03/19/12	8.88	426.84	03/19/12	9.79	426.61	03/19/12	6.46	426.50	03/19/12	6.32	426.56	03/19/12	7.13	426.33
12/05/11	9.10	426.62	12/05/11	9.84	426.56	12/05/11	6.72	426.24	12/05/11	6.73	426.15	12/05/11	7.50	425.96
09/26/11	9.31	426.41	09/26/11	10.11	426.29	09/26/11	6.64	426.32	09/26/11	6.68	426.20	09/26/11	7.35	426.11
06/13/11	9.29	426.43	06/13/11	10.07	426.33	06/13/11	6.71	426.25	06/13/11	7.87	425.01	06/13/11	7.33	426.13
03/29/11	8.64	427.08	03/29/11	9.43	426.97	03/29/11	6.04	426.92	03/29/11	5.93	426.95	03/29/11	6.68	426.78

Notes:

TOC = Top of Inner Well Casing Elevation in Feet
DTW = Depth to Water from Top of Casing in Feet
El. = Elevation in Feet

Table 3
Historical Groundwater Data
DNAPL Wells

Well	DNAPL-02 TOC = 436.81		Well	DNAPL-03 TOC = 437.23		Well	DNAPL-04 TOC = 438.50		Well	DNAPL-05 TOC = 440.60	
Date	DTW	Water El.	Date	DTW	Water El.	Date	DTW	Water El.	Date	DTW	Water El.
03/22/18	9.35	427.46	03/22/18	9.60	427.63	03/22/18	10.90	427.60	03/22/18	12.99	427.61
12/06/17	9.00	427.81	12/06/17	9.31	427.92	12/06/17	10.59	427.91	12/06/17	12.65	427.95
09/01/17	9.75	427.06	09/01/17	10.00	427.23	09/01/17	11.36	427.14	09/01/17	13.44	427.16
06/23/17	9.30	427.51	06/23/17	9.56	427.67	06/23/17	10.90	427.60	06/23/17	13.00	427.60
03/08/17	8.92	427.89	03/08/17	9.19	428.04	03/08/17	10.51	427.99	03/08/17	12.57	428.03
12/15/16	8.33	428.48	12/15/16	8.60	428.63	12/15/16	9.89	428.61	12/15/16	11.98	428.62
09/19/16	9.56	427.25	09/19/16	9.88	427.35	09/19/16	11.20	427.30	09/19/16	13.27	427.33
06/07/16	9.41	427.40	06/07/16	9.73	427.50	06/07/16	11.05	427.45	06/07/16	13.12	427.48
03/07/16	8.45	428.36	03/07/16	8.73	428.50	03/07/16	10.05	428.45	03/07/16	12.10	428.50
12/02/15	9.41	427.40	12/02/15	9.71	427.52	12/02/15	11.01	427.49	12/02/15	13.09	427.51
09/16/15	9.91	426.90	09/16/15	10.21	427.02	09/16/15	11.51	426.99	09/16/15	13.58	427.02
06/03/15	8.33	428.48	06/03/15	8.84	428.39	06/03/15	10.15	428.35	06/03/15	12.24	428.36
04/08/15	8.39	428.42	04/08/15	8.68	428.55	04/08/15	9.96	428.54	04/08/15	12.07	428.53
12/01/14	9.16	427.65	12/01/14	9.45	427.78	12/01/14	10.75	427.75	12/01/14	12.81	427.79
09/10/14	9.25	427.56	09/10/14	9.55	427.68	09/10/14	10.62	427.88	09/10/14	12.70	427.90
06/12/14	9.90	426.91	06/12/14	10.20	427.03	06/12/14	11.41	427.09	06/12/14	13.56	427.04
03/25/14	9.52	427.29	03/25/14	9.81	427.42	03/25/14	11.15	427.35	03/25/14	13.21	427.39
12/12/13	8.71	428.10	12/12/13	9.03	428.20	12/12/13	10.35	428.15	12/12/13	12.41	428.19
09/23/13	9.92	426.89	09/23/13	10.25	426.98	09/23/13	11.56	426.94	09/23/13	13.61	426.99
06/10/13	8.27	428.54	06/10/13	8.62	428.61	06/10/13	9.91	428.59	06/10/13	11.98	428.62
03/27/13	9.51	427.30	03/27/13	9.81	427.42	03/27/13	11.15	427.35	03/27/13	13.21	427.39
12/03/12	9.19	427.62	12/03/12	10.10	427.13	12/03/12	11.45	427.05	12/03/12	13.48	427.12
09/12/12	10.14	426.67	09/12/12	10.48	426.75	09/12/12	11.81	426.69	09/12/12	13.84	426.76
06/18/12	9.46	427.35	06/18/12	9.80	427.43	06/18/12	11.15	427.35	06/18/12	13.24	427.36
03/19/12	9.02	427.79	03/19/12	9.35	427.88	03/19/12	10.69	427.81	03/19/12	12.74	427.86
12/05/11	9.46	427.35	12/05/11	9.79	427.44	12/05/11	11.13	427.37	12/05/11	13.30	427.30
09/26/11	9.36	427.45	09/26/11	9.70	427.53	09/26/11	11.09	427.41	09/26/11	13.08	427.52
06/13/11	9.18	427.63	06/13/11	9.54	427.69	06/13/11	10.84	427.66	06/13/11	12.89	427.71
03/29/11	8.41	428.40	03/29/11	8.72	428.51	03/29/11	10.05	428.45	03/29/11	12.11	428.49

Notes:

TOC = Top of Inner Well Casing Elevation in Feet
DTW = Depth to Water from Top of Casing in Feet
El. = Elevation in Feet

Table 3
Historical Groundwater Data
DNAPL Wells

Well	DNAPL-06 TOC = 439.71		Well	DNAPL-07 TOC = 441.46		Well	DNAPL-08 TOC = 441.80		Well	DNAPL-09 TOC = 442.63	
	Date	DTW	Date	DTW	Water El.		Date	DTW	Date	DTW	Water El.
	03/22/18	12.00	03/22/18	12.67	428.79	03/22/18	13.16	428.64	03/22/18	14.06	428.57
	12/06/17	11.74	12/06/17	12.55	428.91	12/06/17	13.00	428.80	12/06/17	13.91	428.72
	09/01/17	12.40	09/01/17	13.40	428.06	09/01/17	13.80	428.00	09/01/17	14.69	427.94
	06/23/17	11.97	06/23/17	12.70	428.76	06/23/17	13.15	428.65	06/23/17	14.07	428.56
	03/08/17	11.57	03/08/17	12.37	429.09	03/08/17	12.75	429.05	03/08/17	13.65	428.98
	12/15/16	11.05	12/15/16	10.80	430.66	12/15/16	12.24	429.56	12/15/16	13.15	429.48
	09/19/16	12.31	09/19/16	13.22	428.24	09/19/16	13.64	428.16	09/19/16	14.55	428.08
	06/07/16	12.15	06/07/16	12.98	428.48	06/07/16	13.44	428.36	06/07/16	14.32	428.31
	03/07/16	11.17	03/07/16	11.91	429.55	03/07/16	12.36	429.44	03/07/16	13.25	429.38
	12/02/15	12.21	12/02/15	13.03	428.43	12/02/15	13.49	428.31	12/02/15	14.39	428.24
	09/16/15	12.69	09/16/15	13.32	428.14	09/16/15	13.78	428.02	09/16/15	14.67	427.96
	06/03/15	11.36	06/03/15	11.88	429.58	06/03/15	12.37	429.43	06/03/15	13.29	429.34
	04/08/15	11.19	04/08/15	11.71	429.75	04/08/15	12.19	429.61	04/08/15	13.12	429.51
	12/01/14	11.92	12/01/14	12.55	428.91	12/01/14	12.98	428.82	12/01/14	13.88	428.75
	09/10/14	11.76	09/10/14	12.91	428.55	09/10/14	13.35	428.45	09/10/14	14.29	428.34
	06/12/14	12.61	06/12/14	13.12	428.34	06/12/14	13.60	428.20	06/12/14	14.57	428.06
	03/25/14	12.25	03/25/14	13.01	428.45	03/25/14	13.44	428.36	03/25/14	14.21	428.42
	12/12/13	11.51	12/12/13	12.19	429.27	12/12/13	12.63	429.17	12/12/13	13.51	429.12
	09/23/13	12.71	09/23/13	13.26	428.20	09/23/13	13.75	428.05	09/23/13	13.91	428.72
	06/10/13	11.07	06/10/13	11.85	429.61	06/10/13	12.28	429.52	06/10/13	13.16	429.47
	03/27/13	12.31	03/27/13	12.80	428.66	03/27/13	13.26	428.54	03/27/13	14.20	428.43
	12/03/12	12.61	12/03/12	13.75	427.71	12/03/12	13.71	428.09	12/03/12	14.65	427.98
	09/12/12	12.91	09/12/12	13.76	427.70	09/12/12	14.21	427.59	09/12/12	15.11	427.52
	06/18/12	12.28	06/18/12	13.11	428.35	06/18/12	13.56	428.24	06/18/12	14.47	428.16
	03/19/12	11.84	03/19/12	12.61	428.85	03/19/12	13.95	427.85	03/19/12	13.05	429.58
	12/05/11	12.28	12/05/11	12.88	428.58	12/05/11	13.36	428.44	12/05/11	14.28	428.35
	09/26/11	10.18	09/26/11	12.86	428.60	09/26/11	13.35	428.45	09/26/11	14.25	428.38
	06/13/11	11.94	06/13/11	12.84	428.62	06/13/11	13.27	428.53	06/13/11	14.14	428.49
	03/29/11	11.12	03/29/11	12.25	429.21	03/29/11	12.66	429.14	03/29/11	13.75	428.88

Notes:

TOC = Top of Inner Well Casing Elevation in Feet
DTW = Depth to Water from Top of Casing in Feet
El. = Elevation in Feet

Table 3
Historical Groundwater Data
Trench Wells

Well	VTM-1 TOC = 439.74		Well	VTM-2 TOC = 438.33		Well	VTM-3 TOC = 439.44		Well	VTM-4 TOC = 441.59		Well	VTM-5 TOC = 441.79	
Date	DTW	Water El.	Date	DTW	Water El.	Date	DTW	Water El.	Date	DTW	Water El.	Date	DTW	Water El.
03/22/18	11.86	427.88	03/22/18	10.41	427.92	03/22/18	11.36	428.08	03/22/18	13.31	428.28	03/22/18	13.45	428.34
12/06/17	11.65	428.09	12/06/17	10.07	428.26	12/06/17	11.22	428.22	12/06/17	13.17	428.42	12/06/17	13.32	428.47
09/01/17	12.10	427.64	09/01/17	10.40	427.93	09/01/17	10.55	428.89	09/01/17	13.60	427.99	09/01/17	13.77	428.02
06/23/17	11.80	427.94	06/23/17	10.10	428.23	06/23/17	11.21	428.23	06/23/17	13.15	428.44	06/23/17	13.29	428.50
03/08/17	11.24	428.50	03/08/17	9.52	428.81	03/08/17	10.65	428.79	03/08/17	12.58	429.01	03/08/17	12.76	429.03
12/15/16	10.99	428.75	12/15/16	9.33	429.00	12/15/16	10.49	428.95	12/15/16	12.49	429.10	12/15/16	12.54	429.25
09/19/16	12.23	427.51	09/19/16	10.56	427.77	09/19/16	11.71	427.73	09/19/16	13.65	427.94	09/19/16	13.82	427.97
06/07/16	11.98	427.76	06/07/16	10.29	428.04	06/07/16	11.43	428.01	06/07/16	13.44	428.15	06/07/16	13.61	428.18
03/07/16	10.98	428.76	03/07/16	9.25	429.08	03/07/16	10.36	429.08	03/07/16	12.32	429.27	03/07/16	12.49	429.30
12/02/15	12.12	427.62	12/02/15	10.53	427.80	12/02/15	11.68	427.76	12/02/15	13.58	428.01	12/02/15	13.74	428.05
09/16/15	12.55	427.19	09/16/15	10.75	427.58	09/16/15	11.85	427.59	09/16/15	13.73	427.86	09/16/15	14.67	427.12
06/03/15	11.21	428.53	06/03/15	9.55	428.78	06/03/15	10.72	428.72	06/03/15	12.68	428.91	06/03/15	12.86	428.93
04/08/15	11.06	428.68	04/08/15	9.49	428.84	04/08/15	11.65	427.79	04/08/15	12.65	428.94	04/08/15	12.81	428.98
12/01/14	11.55	428.19	12/01/14	9.79	428.54	12/01/14	10.92	428.52	12/01/14	12.91	428.68	12/01/14	13.09	428.70
09/10/14	11.62	428.12	09/10/14	9.91	428.42	09/10/14	11.10	428.34	09/10/14	13.14	428.45	09/10/14	13.31	428.48
06/12/14	11.94	427.80	06/12/14	10.28	428.05	06/12/14	11.45	427.99	06/12/14	13.48	428.11	06/12/14	13.63	428.16
03/25/14	11.69	428.05	03/25/14	10.01	428.32	03/25/14	11.17	428.27	03/25/14	13.32	428.27	03/25/14	13.35	428.44
12/12/13	10.91	428.83	12/12/13	9.31	429.02	12/12/13	10.46	428.98	12/12/13	12.51	429.08	12/12/13	12.56	429.23
09/23/13	12.19	427.55	09/23/13	10.63	427.70	09/23/13	11.79	427.65	09/23/13	15.75	425.84	09/23/13	13.91	427.88
06/10/13	10.45	429.29	06/10/13	8.75	429.58	06/10/13	9.98	429.46	06/10/13	12.08	429.51	06/10/13	13.16	428.63
03/27/13	11.83	427.91	03/27/13	10.82	427.51	03/27/13	11.48	427.96	03/27/13	13.51	428.08	03/27/13	13.69	428.10
12/03/12	12.31	427.43	12/03/12	10.82	427.51	12/03/12	11.98	427.46	12/03/12	13.84	427.75	12/03/12	14.06	427.73
06/18/12	12.01	427.73	06/18/12	10.46	427.87	06/18/12	11.66	427.78	06/18/12	13.70	427.89	06/18/12	13.89	427.90
03/19/12	11.49	428.25	03/19/12	9.91	428.42	03/19/12	11.11	428.33	03/19/12	13.16	428.43	03/19/12	13.33	428.46
12/05/11	12.01	427.73	12/05/11	10.48	427.85	12/05/11	11.62	427.82	12/05/11	13.61	427.98	12/05/11	13.81	427.98
09/26/11	11.95	427.79	09/26/11	10.41	427.92	09/26/11	11.61	427.83	09/26/11	13.66	427.93	09/26/11	13.82	427.97
06/13/11	11.74	428.00	06/13/11	10.15	428.18	06/13/11	11.32	428.12	06/13/11	13.39	428.20	06/13/11	13.59	428.20
03/29/11	11.02	428.72	03/29/11	9.48	428.85	03/29/11	10.65	428.79	03/29/11	12.81	428.78	03/29/11	12.97	428.82

Notes:

TOC = Top of Inner Well Casing Elevation in Feet
DTW = Depth to Water from Top of Casing in Feet
El. = Elevation in Feet

Table 3
Historical Groundwater Data
Operable Unit 1 Wells

Well	LTMW-D01		LTMW-S01		LTMW-D02		LTMW-S02		LTMW-D03		LTMW-S03		LTMW-D04		LTMW-S04	
	TOC =	434.90	TOC =	435.52	TOC =	436.74	TOC =	436.79	TOC =	431.27	TOC =	431.43	TOC =	437.18	TOC =	437.24
Date	DTW	Water El.	DTW	Water El.	DTW	Water El.	DTW	Water El.	DTW	Water El.	DTW	Water El.	DTW	Water El.	DTW	Water El.
03/22/18	8.22	426.68	9.41	426.11	10.21	426.53	9.98	426.81	5.65	425.62	3.60	427.83	9.35	427.83	9.05	428.19
12/06/17	8.17	426.73	8.16	427.36	10.07	426.67	9.61	427.18	4.76	426.51	3.30	428.13	9.35	427.83	8.35	428.89
09/01/17	8.75	426.15	8.74	426.78	10.64	426.10	10.31	426.48	5.23	426.04	4.15	427.28	9.99	427.19	9.50	427.74
06/23/17	8.30	426.60	8.53	426.99	10.45	426.29	10.27	426.52	4.91	426.36	4.05	427.38	9.58	427.60	9.45	427.79
03/08/17	8.13	426.77	8.27	427.25	10.11	426.63	9.79	427.00	4.48	426.79	3.53	427.90	9.00	428.18	8.79	428.45
12/15/16	8.11	426.79	8.02	427.50	10.03	426.71	9.73	427.06	4.55	426.72	3.28	428.15	9.32	427.86	8.41	428.83
09/19/16	8.78	426.12	8.73	426.79	10.70	426.04	10.41	426.38	5.26	426.01	4.25	427.18	10.03	427.15	9.61	427.63
06/07/16	8.56	426.34	7.85	427.67	10.16	426.58	10.21	426.58	4.75	426.52	4.07	427.36	9.47	427.71	9.38	427.86
03/07/16	7.75	427.15	7.18	428.34	9.05	427.69	9.15	427.64	3.69	427.58	2.45	428.98	8.55	428.63	7.85	429.39
12/03/15	7.71	427.19	8.29	427.23	9.85	426.89	9.74	427.05	4.38	426.89	3.51	427.92	9.63	427.55	8.65	428.59
09/16/15	8.30	426.60	8.76	426.76	10.29	426.45	10.32	426.47	4.91	426.36	4.15	427.28	9.69	427.49	9.52	427.72
06/03/15	8.07	426.83	8.03	427.49	10.02	426.72	10.13	426.66	4.45	426.82	3.92	427.51	9.35	427.83	9.27	427.97
04/08/15	7.34	427.56	7.99	427.53	9.58	427.16	9.71	427.08	4.01	427.26	3.54	427.89	8.85	428.33	8.75	428.49
12/01/14	7.94	426.96	8.15	427.37	9.75	426.99	9.64	427.15	4.11	427.16	3.13	428.30	9.09	428.09	8.57	428.67
09/10/14	8.14	426.76	8.12	427.40	9.99	426.75	9.64	427.15	4.58	426.69	3.19	428.24	9.30	427.88	8.70	428.54
06/12/14	8.68	426.22	8.24	427.28	10.57	426.17	10.26	426.53	4.71	426.56	4.11	427.32	9.60	427.58	9.42	427.82
03/25/14	8.22	426.68	8.50	427.02	10.11	426.63	10.19	426.60	4.71	426.56	4.09	427.34	9.56	427.62	9.43	427.81
12/12/13	7.61	427.29	7.64	427.88	9.19	427.55	8.75	428.04	3.97	427.30	1.99	429.44	8.57	428.61	7.45	429.79
09/23/13	8.36	426.54	8.75	426.77	10.28	426.46	10.28	426.51	5.11	426.16	4.05	427.38	9.84	427.34	9.52	427.72
06/10/13	7.17	427.73	7.52	428.00	9.09	427.65	8.73	428.06	3.52	427.75	2.18	429.25	7.99	429.19	6.99	430.25
03/27/13	8.27	426.63	8.64	426.88	10.28	426.46	9.98	426.81	4.84	426.43	3.87	427.56	9.61	427.57	9.36	427.88
12/03/12	8.65	426.25	8.60	426.92	10.42	426.32	9.90	426.89	5.08	426.19	3.80	427.63	9.85	427.33	9.91	427.33
09/12/12	8.84	426.06	8.91	426.61	10.76	425.98	10.35	426.44	5.39	425.88	4.17	427.26	10.20	426.98	9.62	427.62
06/18/12	8.35	426.55	8.61	426.91	10.35	426.39	10.26	426.53	5.10	426.17	4.08	427.35	8.76	428.42	9.48	427.76
03/19/12	8.01	426.89	8.11	427.41	9.92	426.82	9.46	427.33	4.50	426.77	3.04	428.39	9.24	427.94	8.29	428.95
12/05/11	8.16	426.74	8.31	427.21	10.12	426.62	9.61	427.18	4.63	426.64	3.35	428.08	9.39	427.79	8.81	428.43
09/26/11	8.38	426.52	8.45	427.07	10.45	426.29	10.18	426.61	4.71	426.56	3.93	427.50	9.45	427.73	9.44	427.80
06/13/11	7.61	427.29	8.36	427.16	10.27	426.47	9.95	426.84	4.78	426.49	3.75	427.68	9.42	427.76	9.17	428.07
03/28/11	7.83	427.07	7.85	427.67	9.68	427.06	9.43	427.36	4.41	426.86	3.34	428.09	9.07	428.11	8.91	428.33

Notes:

TOC = Top of Inner Well Casing Elevation in Feet
DTW = Depth to Water from Top of Casing in Feet
El. = Elevation in Feet

Table 3
Historical Groundwater Data
Operable Unit 1 Wells

Well	LTMW-D05		LTMW-S05		LTMW-D06		LTMW-S06		LTMW-S07		LTMW-S08		LTMW-S09		LTMW-S10	
	TOC =	437.78	TOC =	437.92	TOC =	441.70	TOC =	441.64	TOC =	439.70	TOC =	443.81	TOC =	439.79	TOC =	439.67
Date	DTW	Water El.	DTW	Water El.	DTW	Water El.	DTW	Water El.	DTW	Water El.	DTW	Water El.	DTW	Water El.	DTW	Water El.
03/22/18	8.95	428.83	8.80	429.12	12.10	429.60	12.92	428.72	10.40	429.30	15.30	428.51	9.50	430.29	10.15	429.52
12/06/17	9.02	428.76	9.16	428.76	12.00	429.70	12.25	429.39	10.67	429.03	15.10	428.71	9.58	430.21	10.10	429.57
09/01/17	9.51	428.27	9.60	428.32	12.62	429.08	13.50	428.14	12.60	427.10	15.78	428.03	10.38	429.41	10.96	428.71
06/23/17	9.14	428.64	9.60	428.32	12.07	429.63	12.88	428.76	10.73	428.97	15.22	428.59	12.88	426.91	10.18	429.49
03/08/17	8.26	429.52	7.54	430.38	11.52	430.18	11.78	429.86	10.39	429.31	14.69	429.12	9.21	430.58	9.98	429.69
12/15/16	8.80	428.98	9.00	428.92	12.28	429.42	11.70	429.94	9.89	429.81	14.50	429.31	8.60	431.19	9.30	430.37
09/19/16	9.63	428.15	9.65	428.27	12.61	429.09	13.24	428.40	11.44	428.26	15.59	428.22	9.82	429.97	10.68	428.99
06/07/16	8.82	428.96	9.53	428.39	11.98	429.72	13.03	428.61	11.01	428.69	15.36	428.45	9.81	429.98	10.41	429.26
03/07/16	7.85	429.93	8.27	429.65	11.16	430.54	12.13	429.51	9.94	429.76	14.48	429.33	9.05	430.74	9.65	430.02
12/02/15	8.77	429.01	9.21	428.71	12.31	429.39	13.20	428.44	11.55	428.15	15.67	428.14	10.40	429.39	10.95	428.72
09/16/15	8.97	428.81	9.51	428.41	12.58	429.12	13.25	428.39	11.54	428.16	15.65	428.16	9.89	429.90	10.65	429.02
06/03/15	9.25	428.53	9.41	428.51	12.15	429.55	12.93	428.71	10.81	428.89	15.21	428.60	9.15	430.64	9.93	429.74
04/08/15	8.74	429.04	9.36	428.56	11.67	430.03	12.55	429.09	10.06	429.64	14.85	428.96	8.89	430.90	9.54	430.13
12/01/14	8.28	429.50	8.91	429.01	11.77	429.93	12.49	429.15	10.97	428.73	14.78	429.03	9.31	430.48	9.93	429.74
09/10/14	8.85	428.93	8.97	428.95	11.91	429.79	12.68	428.96	10.96	428.74	15.34	428.47	9.35	430.44	10.29	429.38
06/12/14	9.02	428.76	9.52	428.40	12.28	429.42	13.08	428.56	11.14	428.56	15.34	428.47	9.63	430.16	10.46	429.21
03/25/14	9.03	428.75	8.50	429.42	11.95	429.75	12.81	428.83	10.85	428.85	15.03	428.78	9.11	430.68	9.93	429.74
12/12/13	7.96	429.82	7.85	430.07	11.20	430.50	11.87	429.77	10.16	429.54	14.11	429.70	8.95	430.84	9.63	430.04
09/23/13	8.94	428.84	9.52	428.40	12.36	429.34	13.21	428.43	11.39	428.31	15.46	428.35	9.86	429.93	10.64	429.03
06/10/13	7.55	430.23	7.48	430.44	11.15	430.55	11.78	429.86	10.27	429.43	14.12	429.69	9.43	430.36	10.17	429.50
03/27/13	9.13	428.65	9.45	428.47	12.16	429.54	13.10	428.54	10.92	428.78	15.27	428.54	9.55	430.24	10.31	429.36
12/03/12	9.51	428.27	9.48	428.44	13.43	428.27	12.78	428.86	11.59	428.11	15.72	428.09	10.25	429.54	10.91	428.76
09/12/12	9.76	428.02	9.64	428.28	12.81	428.89	13.69	427.95	11.97	427.73	15.95	427.86	10.58	429.21	11.27	428.40
06/18/12	9.26	428.52	9.51	428.41	12.41	429.29	13.23	428.41	11.31	428.39	15.40	428.41	9.81	429.98	10.56	429.11
03/19/12	8.79	428.99	9.04	428.88	12.12	429.58	12.99	428.65	11.05	428.65	15.19	428.62	9.73	430.06	10.43	429.24
12/05/11	9.02	428.76	9.08	428.84	12.22	429.48	13.04	428.60	10.97	428.73	15.19	428.62	9.58	430.21	10.34	429.33
09/26/11	9.32	428.46	9.53	428.39	12.40	429.30	13.20	428.44	11.01	428.69	15.21	428.60	9.55	430.24	10.31	429.36
06/13/11	8.91	428.87	9.34	428.58	11.99	429.71	12.88	428.76	10.79	428.91	15.03	428.78	9.49	430.30	10.29	429.38
03/28/11	8.08	429.70	9.12	428.80	11.62	430.08	12.41	429.23	10.08	429.62	14.46	429.35	10.14	429.65	9.75	429.92

Notes:

TOC = Top of Inner Well Casing Elevation in Feet
DTW = Depth to Water from Top of Casing in Feet
El. = Elevation in Feet

Table 4
Groundwater Analytical Data
LTMW-D01

Parameter	EPA - Maximum Allowable (µg/L)	NYSDEC AWQS (µg/L)	Reporting Level (µg/L)	03/25/14	06/11/14	09/09/14	12/04/14	04/08/15	06/03/15	09/16/15	12/03/15	03/04/16	06/09/16	09/21/16	12/07/16	03/08/17	06/07/17	09/21/17	12/06/17	03/21/18
Benzene	5	1	1	4,700	5,700	2,800	1,100	540	5,100	1,700	1,500	4,800	1,700	5,310	8,990	5,800	5,290	2,470	4,250	5,460
Toluene	1,000	5	1	1,000	1,500	580	240	300	1,300	430	340	1,100	340	1,090	2,080	1,320	1,470	809	1,230	1,140
Ethylbenzene	700	5	1	53	110	ND	7.8	26	84	53	54	82	ND	167	241	145	137	179	177	95.0
Xylene (total)	10,000	5	2	ND	170	ND	46	68	160	ND	ND	170	ND	176	254	206	201	157	187	135
Acenaphthene	N/A	20	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.59	0.43	0.19	0.10	0.19	0.35	0.18
Acenaphthylene	N/A	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0	6.2	0.31	0.11	0.36	7.1	3.1
Anthracene	N/A	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	N/A	ND	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	0.2	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyanide	N/A	200	10	ND	ND	ND	ND	ND	ND	ND	ND	13	ND	ND	14	11	ND	ND	ND	10
Dibenzo(a,h)anthracene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.51	0.35	0.15	ND	ND	0.41	0.17
Indeno(1,2,3-cd)pyrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	N/A	10	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	97.1	229	ND	ND	ND	7.2	94.6
Phenanthrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	107	ND
Pyrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	N/A	25	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.9	ND
Lead	N/A	25	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	N/A	2,000	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

EPA = Environmental Protection Agency
NYSDEC = New York State Department of Environmental Conservation
AWQS = Ambient Water Quality Standards
µg/L = Micrograms per Liter
ND = Not detected above laboratory reporting limits
H = Quantitated using peak height rather than peak area
J = Estimated Concentration Value
Bolded = values indicate exceedance of the NYSDEC AWQS

Table 4
Groundwater Analytical Data
LTMW-S01

Parameter	EPA - Maximum Allowable (µg/L)	NYSDEC AWQS (µg/L)	Reporting Level (µg/L)	03/25/14	06/11/14	09/09/14	12/04/14	04/08/15	06/03/15	09/16/15	12/03/15	03/04/16	06/09/16	09/21/16	12/07/16	03/08/17	06/07/17	09/21/17	12/06/17	03/21/18
Benzene	5	1	1	ND	ND	ND	3,600	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	1,000	5	1	ND	ND	ND	470	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	700	5	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.2	ND	ND	ND	ND	ND
Xylene (total)	10,000	5	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	N/A	20	4.9	99	83	56 H J	94	70	68	72	79 E	76	120	125	91.2	69.4	56.4	105	75.1	56.5
Acenaphthylene	N/A	NA	4.9	ND	5.1	ND	ND	ND	4.7	ND	ND	ND	ND	4.1	3	3.2	2.5	3.6	2.7	2.2
Anthracene	N/A	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.44	0.38	0.52	0.28	0.40	0.34	0.27
Benzo(a)anthracene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	N/A	ND	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	0.2	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyanide	N/A	200	10	19	28	22	ND	23	16	23	20	20	21	ND	13	55	18	12	15	11
Dibenzo(a,h)anthracene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	N/A	50	4.9	ND	5.4	ND	ND	ND	ND	ND	ND	ND	ND	4.9	4	3.6	2.8	4.8	3.5	2.4
Fluorene	N/A	0.002	4.9	ND	27	20 H J	28	18	26	25	23	21	28	34.1	27.6	19.9	12.6	28.5	19.2	15.4
Indeno(1,2,3-cd)pyrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	N/A	10	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.2	0.38	0.4	0.15	0.24	0.31	ND
Phenanthrene	N/A	50	4.9	ND	25	7.7 H J	10	ND	9.4	ND	ND	ND	ND	0.25	0.74	1.7	ND	0.14	0.20	0.26
Pyrene	N/A	50	4.9	ND	5.3	ND	ND	ND	ND	ND	ND	ND	ND	5.0	4.2	3.6	2.7	4.9	3.7	2.5
Arsenic	N/A	25	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Lead	N/A	25	5	ND	ND	ND	ND	ND	8.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	N/A	2,000	10	ND	ND	ND	ND	ND	28	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

EPA = Environmental Protection Agency
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µg/L = Micrograms per Liter
ND = Not detected above laboratory reporting limits
H = Quantitated using peak height rather than peak area
J = Estimated Concentration Value
Bolded = values indicate exceedance of the NYSDEC AWQS

Table 4
Groundwater Analytical Data
LTMW-D02

Parameter	EPA - Maximum Allowable (µg/L)	NYSDEC AWQS (µg/L)	Reporting Level (µg/L)	03/25/14	06/11/14	09/09/14	12/04/14	04/08/15	06/03/15	09/16/15	12/03/15	03/04/16	06/09/16	09/20/16	12/07/16	03/08/17	06/07/17	09/21/17	12/06/17	03/21/18
Benzene	5	1	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	1,000	5	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	700	5	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (total)	10,000	5	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	N/A	20	4.9	7	7.4	3.8 H J	7.4	5.8	ND	ND	ND	ND	ND	3.3	2.2	1.6	ND	2.0	0.97	1.2
Acenaphthylene	N/A	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.8	0.43	0.39	ND	0.48	0.22	0.29
Anthracene	N/A	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	N/A	ND	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	0.2	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyanide	N/A	200	10	ND	100	110	ND	130	110	16	ND	93	85	ND	150	200	ND	160	160	160
Dibenzo(a,h)anthracene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	N/A	10	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.16	ND	ND	ND	ND	ND	ND
Phenanthrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	N/A	25	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Lead	N/A	25	5	11	ND	ND	ND	ND	6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	N/A	2,000	10	83	ND	ND	0.021	ND	22	110	11	13	61	ND	ND	ND	ND	ND	ND	ND

EPA = Environmental Protection Agency
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AWQS = Ambient Water Quality Standards
µg/L = Micrograms per Liter
ND = Not detected above laboratory reporting limits
H = Quantitated using peak height rather than peak area
J = Estimated Concentration Value
Bolded = values indicate exceedance of the NYSDEC AWQS

Table 4
Groundwater Analytical Data
LTMW-S02

Parameter	EPA - Maximum Allowable (µg/L)	NYSDEC AWQS (µg/L)	Reporting Level (µg/L)	03/25/14	06/11/14	09/09/14	12/04/14	04/08/15	06/03/15	09/16/15	12/03/15	03/04/16	06/09/16	09/20/16	12/07/16	03/08/17	06/07/17	09/21/17	12/06/17	03/21/18
Benzene	5	1	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	1,000	5	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	700	5	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (total)	10,000	5	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	N/A	20	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	N/A	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	N/A	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	N/A	ND	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	0.2	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyanide	N/A	200	10	130	140	160	ND	81	35	190	120	130	150	ND	130	75	73	110	90	60
Dibenzo(a,h)anthracene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	N/A	10	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.15	ND	ND	ND	ND	ND	ND
Phenanthrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	N/A	25	10	ND	ND	ND	ND	ND	ND	ND	ND	15	15	5.1	ND	7.7	ND	ND	7.6	ND
Lead	N/A	25	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	N/A	2,000	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

EPA = Environmental Protection Agency
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ND = Not detected above laboratory reporting limits
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J = Estimated Concentration Value
Bolded = values indicate exceedance of the NYSDEC AWQS

Table 4
Groundwater Analytical Data
LTMW-D03

Parameter	EPA - Maximum Allowable (µg/L)	NYSDEC AWQS (µg/L)	Reporting Level (µg/L)	03/25/14	06/11/14	09/10/14	12/04/14	04/08/15	06/03/15	09/16/15	12/03/15	03/04/16	06/09/16	09/20/16	12/07/16	03/08/17	06/07/17	09/21/17	12/06/17	03/21/18
Benzene	5	1	1	16	15	11	12	6.7	9.3	9.3	10	8.9	20	15.9	27.1	10.2	8.5	8.9	9.5	4.7
Toluene	1,000	5	1	4.4	5.3	ND	4.2	2	3.4	2.2	ND	ND	20	13.9	55	5.9	1.9	1.9	5.4	ND
Ethylbenzene	700	5	1	120	170	150	190	73	100	87	76	86	58	69.6	23.9	63.7	44	49.0	40.2	26.0
Xylene (total)	10,000	5	2	25	42	28	41	15	22	16	16	14	42	30.1	25.7	13.5	5.6	7.5	8.4	4.0
Acenaphthene	N/A	20	4.9	ND	11	4.9 H J	14	10	14	16	12	11	ND	411.9	ND	10.7	3.70	10.2	5.9	5.8
Acenaphthylene	N/A	NA	4.9	ND	7.3	ND	5.9	ND	ND	ND	ND	ND	ND	34.7	10.6	3.1	2.5	2.2	1.5	1.3
Anthracene	N/A	NA	4.9	ND	ND	ND	5.7	ND	5.6	5.4	ND	ND	ND	5.2	ND	5.6	0.3	3.7	2.4	2.2
Benzo(a)anthracene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.43	ND	0.42	ND	0.40	0.26	0.30
Benzo(a)pyrene	N/A	ND	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	0.2	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.21	ND	0.25	ND	0.24	0.18	0.17
Cyanide	N/A	200	10	76	76	ND	44	64	67	78	71	75	93	77	79	84	76	66	78	64
Dibenzo(a,h)anthracene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	N/A	50	4.9	ND	5.7	ND	7.1	ND	6.7	6.6	5.6	6.2	ND	6.2	ND	6.1	2.9	5.9	3.7	4.1
Fluorene	N/A	0.002	4.9	ND	11	4.3 H J	12	6.8	11	10	9.3	7.8	ND	11.5	ND	7.1	13.2	6.2	3.7	3.6
Indeno(1,2,3-cd)pyrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.4	ND	ND	ND	ND	ND
Naphthalene	N/A	10	4.9	230	100	74 H J	150	14	47	29	24	13	81	556	284	32.2	0.15	10.0	16.5	3.9
Phenanthrene	N/A	50	4.9	ND	27	9.6 H J	31	17	28	30	25	27	25	29.5	1.5	30.3	0.11	24.1	15.2	16.3
Pyrene	N/A	50	4.9	ND	ND	ND	9.8	6	8.9	8.6	7.2	8.3	8.3	8.3	1.2	7.6	2.8	7.6	4.8	5.5
Arsenic	N/A	25	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Lead	N/A	25	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	N/A	2,000	10	ND	ND	ND	0.01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

EPA = Environmental Protection Agency
NYSDEC = New York State Department of Environmental Conservation
AWQS = Ambient Water Quality Standards
µg/L = Micrograms per Liter
ND = Not detected above laboratory reporting limits
H = Quantitated using peak height rather than peak area
J = Estimated Concentration Value
Bolded = values indicate exceedance of the NYSDEC AWQS

Table 4
Groundwater Analytical Data
LTMW-S03

Parameter	EPA - Maximum Allowable (µg/L)	NYSDEC AWQS (µg/L)	Reporting Level (µg/L)	03/25/14	06/11/14	09/10/14	12/04/14	04/08/15	06/03/15	09/16/15	12/03/15	03/04/16	06/09/16	09/20/16	12/07/16	03/08/17	06/07/17	09/21/17	12/06/17	03/21/18
Benzene	5	1	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	1,000	5	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	700	5	1	ND	ND	ND	1.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (total)	10,000	5	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	N/A	20	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	N/A	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	N/A	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	N/A	ND	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	0.2	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyanide	N/A	200	10	ND	ND	72 J	ND	ND	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.15	ND	ND	ND
Indeno(1,2,3-cd)pyrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	N/A	10	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.16	0.17	ND	ND	ND	ND	ND
Phenanthrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.11	ND	ND	ND	ND
Pyrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	N/A	25	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Lead	N/A	25	5	10	7.9	11	ND	15	30	5.9	5.9	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	N/A	2,000	10	7,500	5,800	5,600	4,600	5,600	7,300	5,500	4,400	4,600	4,300	4,300	4,600	5,330	4,250	3,740	3,620	4,070

EPA = Environmental Protection Agency
NYSDEC = New York State Department of Environmental Conservation
AWQS = Ambient Water Quality Standards
µg/L = Micrograms per Liter
ND = Not detected above laboratory reporting limits
H = Quantitated using peak height rather than peak area
J = Estimated Concentration Value
Bolded = values indicate exceedance of the NYSDEC AWQS

Table 4
Groundwater Analytical Data
LTMW-D04

Parameter	EPA - Maximum Allowable (µg/L)	NYSDEC AWQS (µg/L)	Reporting Level (µg/L)	03/25/14	06/11/14	09/10/14	12/04/14	04/08/15	06/03/15	09/16/15	12/03/15	03/04/16	06/09/16	09/20/16	12/07/16	03/08/17	06/07/17	09/21/17	12/06/17	03/21/18
Benzene	5	1	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	1,000	5	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	700	5	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (total)	10,000	5	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	N/A	20	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	N/A	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	N/A	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	N/A	ND	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	0.2	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyanide	N/A	200	10	ND	15	12	ND	13	15	14	11.5	10	ND	10	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	N/A	10	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	N/A	25	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	35.3	ND	ND	ND
Lead	N/A	25	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	N/A	2,000	10	ND	ND	ND	0.013	ND	ND	ND	490	490	ND	ND	ND	ND	ND	ND	ND	ND

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AWQS = Ambient Water Quality Standards
µg/L = Micrograms per Liter
ND = Not detected above laboratory reporting limits
H = Quantitated using peak height rather than peak area
J = Estimated Concentration Value
Bolded = values indicate exceedance of the NYSDEC AWQS

Table 4
Groundwater Analytical Data
LTMW-S04

Parameter	EPA - Maximum Allowable (µg/L)	NYSDEC AWQS (µg/L)	Reporting Level (µg/L)	03/25/14	06/11/14	09/10/14	12/04/14	04/08/15	06/03/15	09/16/15	12/03/15	03/04/16	06/09/16	09/20/16	12/07/16	03/08/17	06/07/17	09/21/17	12/06/17	03/21/18
Benzene	5	1	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	1,000	5	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	700	5	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (total)	10,000	5	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	N/A	20	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	N/A	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	N/A	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	N/A	ND	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	0.2	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyanide	N/A	200	10	300	350	580	680	870	400	800	170	450	600	59	2,000	900	1,200	200	1,300	400
Dibenzo(a,h)anthracene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	N/A	10	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	N/A	25	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Lead	N/A	25	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	N/A	2,000	10	560	310	330	120	180	610	140	ND	510	340	23	618	358	108	128	472	472

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µg/L = Micrograms per Liter
ND = Not detected above laboratory reporting limits
H = Quantitated using peak height rather than peak area
J = Estimated Concentration Value
Bolded = values indicate exceedance of the NYSDEC AWQS

Table 4
Groundwater Analytical Data
LTMW-D05

Parameter	EPA - Maximum Allowable (µg/L)	NYSDEC AWQS (µg/L)	Reporting Level (µg/L)	03/25/14	06/11/14	09/10/14	12/04/14	04/08/15	06/03/15	09/16/15	12/03/15	03/04/16	06/09/16	09/19/16	12/07/16	03/08/17	06/07/17	09/21/17	12/06/17	03/21/18
Benzene	5	1	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	1,000	5	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	700	5	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (total)	10,000	5	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	N/A	20	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	N/A	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND
Anthracene	N/A	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	N/A	ND	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	0.2	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyanide	N/A	200	10	140	ND	ND	ND	ND	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	N/A	10	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	N/A	25	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Lead	N/A	25	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	N/A	2,000	10	39	ND	ND	0.013	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

EPA = Environmental Protection Agency
NYSDEC = New York State Department of Environmental Conservation
AWQS = Ambient Water Quality Standards
µg/L = Micrograms per Liter
ND = Not detected above laboratory reporting limits
H = Quantitated using peak height rather than peak area
J = Estimated Concentration Value
Bolded = values indicate exceedance of the NYSDEC AWQS

Table 4
Groundwater Analytical Data
LTMW-S05

Parameter	EPA - Maximum Allowable (µg/L)	NYSDEC AWQS (µg/L)	Reporting Level (µg/L)	03/25/14	06/11/14	09/10/14	12/04/14	04/08/15	06/03/15	09/16/15	12/03/15	03/04/16	06/09/16	09/19/16	12/07/16	03/08/17	06/07/17	09/21/17	12/06/17	03/21/18
Benzene	5	1	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5,800	ND	ND	ND	ND
Toluene	1,000	5	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,320	ND	ND	ND	ND
Ethylbenzene	700	5	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	145	ND	ND	ND	ND
Xylene (total)	10,000	5	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	206	ND	ND	ND	ND
Acenaphthene	N/A	20	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.19	ND	ND	ND	ND
Acenaphthylene	N/A	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.31	ND	ND	ND	ND
Anthracene	N/A	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	N/A	ND	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	0.2	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyanide	N/A	200	10	ND	260	150	94	140	190	220	160	450	250	16	830	510	570	270	380	430
Dibenzo(a,h)anthracene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.15	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	N/A	10	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	N/A	25	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Lead	N/A	25	5	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND	ND	5.4	ND	ND	ND	ND
Zinc	N/A	2,000	10	ND	ND	11	13	75	ND	27	ND	ND	19	23	ND	27.5	ND	ND	ND	ND

EPA = Environmental Protection Agency
NYSDEC = New York State Department of Environmental Conservation
AWQS = Ambient Water Quality Standards
µg/L = Micrograms per Liter
ND = Not detected above laboratory reporting limits
H = Quantitated using peak height rather than peak area
J = Estimated Concentration Value
Bolded = values indicate exceedance of the NYSDEC AWQS

Table 4
Groundwater Analytical Data
LTMW-D06

Parameter	EPA - Maximum Allowable (µg/L)	NYSDEC AWQS (µg/L)	Reporting Level (µg/L)	03/25/14	06/11/14	09/08/14	12/04/14	04/08/15	06/03/15	09/16/15	12/03/15	03/04/16	06/09/16	09/19/16	12/07/16	03/08/17	06/07/17	09/21/17	12/06/17	03/21/18
Benzene	5	1	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	1,000	5	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	700	5	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (total)	10,000	5	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	N/A	20	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	N/A	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	N/A	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	N/A	ND	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	0.2	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyanide	N/A	200	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	92	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	N/A	10	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.1	ND	ND	ND	ND
Arsenic	N/A	25	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.64	ND	ND	8.1	8.5	8.0	6.0
Lead	N/A	25	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	N/A	2,000	10	ND	ND	ND	0.015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

EPA = Environmental Protection Agency
NYSDEC = New York State Department of Environmental Conservation
AWQS = Ambient Water Quality Standards
µg/L = Micrograms per Liter
ND = Not detected above laboratory reporting limits
H = Quantitated using peak height rather than peak area
J = Estimated Concentration Value
Bolded = values indicate exceedance of the NYSDEC AWQS

Table 4
Groundwater Analytical Data
LTMW-S06

Parameter	EPA - Maximum Allowable (µg/L)	NYSDEC AWQS (µg/L)	Reporting Level (µg/L)	03/25/14	06/11/14	09/08/14	12/04/14	04/08/15	06/03/15	09/16/15	12/03/15	03/04/16	06/09/16	09/19/16	12/07/16	03/08/17	06/07/17	09/21/17	12/06/17	03/21/18
Benzene	5	1	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	1,000	5	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	700	5	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (total)	10,000	5	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	N/A	20	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	N/A	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	N/A	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	N/A	ND	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	0.2	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyanide	N/A	200	10	71	110	66	17	100	ND	32	19	32	66	31	ND	190	79	14	18	64
Dibenzo(a,h)anthracene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	N/A	10	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	N/A	25	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9	ND	ND	ND	ND	ND
Lead	N/A	25	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	N/A	2,000	10	ND	ND	ND	0.01	0.01	ND	ND	ND	18	ND	ND	ND	ND	ND	ND	ND	ND

EPA = Environmental Protection Agency
NYSDEC = New York State Department of Environmental Conservation
AWQS = Ambient Water Quality Standards
µg/L = Micrograms per Liter
ND = Not detected above laboratory reporting limits
H = Quantitated using peak height rather than peak area
J = Estimated Concentration Value
Bolded = values indicate exceedance of the NYSDEC AWQS

Table 4
Groundwater Analytical Data
LTMW-S07

Parameter	EPA - Maximum Allowable (µg/L)	NYSDEC AWQS (µg/L)	Reporting Level (µg/L)	03/25/14	06/11/14	09/08/14	12/04/14	04/08/15	06/03/15	09/16/15	12/03/15	03/04/16	06/09/16	09/21/16	12/07/16	03/08/17	06/07/17	09/21/17	12/06/17	03/21/18
Benzene	5	1	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	1,000	5	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	700	5	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (total)	10,000	5	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	N/A	20	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	N/A	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	N/A	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	N/A	ND	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	0.2	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyanide	N/A	200	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	N/A	10	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	N/A	25	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Lead	N/A	25	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	N/A	2,000	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

EPA = Environmental Protection Agency
NYSDEC = New York State Department of Environmental Conservation
AWQS = Ambient Water Quality Standards
µg/L = Micrograms per Liter
ND = Not detected above laboratory reporting limits
H = Quantitated using peak height rather than peak area
J = Estimated Concentration Value
Bolded = values indicate exceedance of the NYSDEC AWQS

Table 4
Groundwater Analytical Data
LTMW-S08

Parameter	EPA - Maximum Allowable (µg/L)	NYSDEC AWQS (µg/L)	Reporting Level (µg/L)	03/25/14	06/11/14	09/08/14	12/04/14	04/08/15	06/03/15	09/16/15	12/03/15	03/04/16	06/09/16	09/19/16	12/07/16	03/08/17	06/07/17	09/21/17	12/06/17	03/21/18
Benzene	5	1	1	ND	ND	ND	ND	2.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	1,000	5	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	700	5	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (total)	10,000	5	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	N/A	20	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	N/A	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	N/A	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	N/A	ND	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	0.2	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyanide	N/A	200	10	ND	130	110	170	560	120	100	100	280	120	120	140	240	16	140	16	200
Dibenzo(a,h)anthracene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	N/A	10	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.12	ND	ND	ND	ND	ND
Phenanthrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	N/A	25	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Lead	N/A	25	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	N/A	2,000	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

EPA = Environmental Protection Agency
NYSDEC = New York State Department of Environmental Conservation
AWQS = Ambient Water Quality Standards
µg/L = Micrograms per Liter
ND = Not detected above laboratory reporting limits
H = Quantitated using peak height rather than peak area
J = Estimated Concentration Value
Bolded = values indicate exceedance of the NYSDEC AWQS

Table 4
Groundwater Analytical Data
LTMW-S09

Parameter	EPA - Maximum Allowable (µg/L)	NYSDEC AWQS (µg/L)	Reporting Level (µg/L)	03/25/14	06/11/14	09/08/14	12/04/14	04/08/15	06/03/15	09/16/15	12/03/15	03/04/16	06/09/16	09/19/16	12/07/16	03/08/17	06/07/17	09/21/17	12/06/17	03/21/18
Benzene	5	1	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	1,000	5	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	700	5	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (total)	10,000	5	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	N/A	20	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	N/A	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	N/A	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	N/A	ND	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	0.2	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyanide	N/A	200	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	N/A	10	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	N/A	25	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Lead	N/A	25	5	ND	ND	ND	11	ND	ND	5.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	N/A	2,000	10	ND	ND	ND	66	22	17	45	ND	ND	10	13	23.2	97.6	24.4	ND	15.3	ND

EPA = Environmental Protection Agency
NYSDEC = New York State Department of Environmental Conservation
AWQS = Ambient Water Quality Standards
µg/L = Micrograms per Liter
ND = Not detected above laboratory reporting limits
H = Quantitated using peak height rather than peak area
J = Estimated Concentration Value
Bolded = values indicate exceedance of the NYSDEC AWQS

Table 4
Groundwater Analytical Data
LTMW-S10

Parameter	EPA - Maximum Allowable (µg/L)	NYSDEC AWQS (µg/L)	Reporting Level (µg/L)	03/25/14	06/11/14	09/08/14	12/04/14	04/08/15	06/03/15	09/16/15	12/03/15	03/04/16	06/09/16	09/21/16	12/07/16	03/08/17	06/07/17	09/21/17	12/06/17	03/21/18
Benzene	5	1	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	1,000	5	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	700	5	1	ND	1.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (total)	10,000	5	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	N/A	20	4.9	30	43	15 H	26	21	17	36	29	6.3	6.3	23	17.4	3.1	4.30	11.0	6.8	2.3
Acenaphthylene	N/A	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.9	0.96	0.2	0.23	0.73	0.54	0.20
Anthracene	N/A	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.17	0.12	0.12	ND	0.11	ND	ND
Benzo(a)anthracene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	N/A	ND	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	0.2	NA	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyanide	N/A	200	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.1	1.5	0.5	0.62	2.0	1.4	0.71
Fluorene	N/A	0.002	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.5	1.1	0.17	0.35	1.1	0.73	0.25
Indeno(1,2,3-cd)pyrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	N/A	10	4.9	5.1	60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.2	0.17	ND	ND	0.20
Phenanthrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.4	0.94	ND	0.22	0.73	0.43	0.12
Pyrene	N/A	50	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.6	1.9	0.45	0.71	2.4	1.7	0.90
Arsenic	N/A	25	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Lead	N/A	25	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	N/A	2,000	10	ND	ND	ND	0.011	0.011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

EPA = Environmental Protection Agency
NYSDEC = New York State Department of Environmental Conservation
AWQS = Ambient Water Quality Standards
µg/L = Micrograms per Liter
ND = Not detected above laboratory reporting limits
H = Quantitated using peak height rather than peak area
J = Estimated Concentration Value
Bolded = values indicate exceedance of the NYSDEC AWQS

Table 5

Discharge Analytical Data
Groundwater Extraction System Effluent Concentrations

Parameter	City of Rome WPCF Permit Max Daily Limit (mg/L)	03/30/15	06/03/15	09/14/15	12/03/15	03/07/16	06/06/16	09/12/16	01/05/17	03/09/17	06/07/17	09/21/17	12/06/17	03/27/18
Benzene	0.13	0.045	0.053	0.04	0.044	0.037	0.063	0.043	0.0393	0.0536	0.0611	0.0360	0.0200	0.0274
Ethylbenzene	1.59	0.0021	0.0049	0.0042	0.003	0.0021	0.0049	0.0042	0.0025	0.0045	0.0050	0.0052	0.0019	0.0024
Toluene	1.35	0.010	0.0085	0.0013	0.0011	0.0038	0.0087	0.0021	0.0019	0.0028	0.0095	ND (<0.001)	0.0017	0.0025
Xylene	1.35	ND (<0.001)	0.0034	ND (<0.001)	ND (<0.001)	ND (<0.001)	0.0011	ND (<0.001)	ND (<0.001)	ND (<0.0030)	0.0034	ND (<0.0030)	ND (<0.0030)	ND (<0.0030)
Total BTEX	2.87	0.057	0.070	0.05	0.048	0.043	0.078	0.049	0.0437	0.0609	0.0790	0.0412	0.0236	0.0323
Arsenic	0.1	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.0050)	ND (<0.010)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)
Cadmium	0.11	ND (<0.001)	ND (<0.001)	0.0017	ND (<0.001)	ND (<0.001)	ND (<0.001)	ND (<0.0030)	ND (<0.0025)	ND (<0.0030)	ND (<0.0030)	ND (<0.0030)	ND (<0.0030)	ND (<0.0030)
Chromium	2.77	ND (<0.0040)	ND (<0.0040)	ND (<0.0040)	ND (<0.0040)	ND (<0.0040)	ND (<0.0040)	ND (<0.0050)	ND (<0.010)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)
Copper	1.3	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.0050)	ND (<0.025)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)
Cyanide	1.2	0.081	0.074	0.075	0.075	0.11	0.11	0.062	ND (<0.010)	0.09	0.084	0.056	0.074	0.069
Lead	1.1	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)	ND (<0.0050)
Mercury	0.2	ND (<0.00020)	ND (<0.00020)	ND (<0.00020)	ND (<0.00020)	ND (<0.00020)	ND (<0.00020)	ND (<0.00020)	ND (<0.00020)	ND (<0.00020)	ND (<0.00020)	ND (<0.00020)	ND (<0.00020)	ND (<0.00020)
Nickel	1.9	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.04)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)
Silver	0.43	ND (<0.0030)	ND (<0.0030)	ND (<0.0030)	ND (<0.0030)	ND (<0.0030)	ND (<0.0030)	ND (<0.0060)	ND (<0.010)	ND (<0.0060)	ND (<0.0060)	ND (<0.0060)	ND (<0.0060)	ND (<0.0060)
Zinc	2.6	ND (<0.010)	ND (<0.010)	ND (<0.010)	0.018	0.018	0.018	ND (<0.010)	0.0241	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)
Oil & Grease	100	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	NS	NS	NS	NS	NS	NS	NS
CBOD5	250	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	NS	NS	NS	NS	NS	NS	NS
pH	5.5 - 11.5 su	7.01	7.08	6.88	6.98	7.06	6.91	6.8	6.8	6.7	6.9	6.8	6.8	6.8

Results in mg/L.

mg/L = Milligrams per Liter
WPCF = Water Pollution Control Facility
NS = Not Sampled
NA = Not Analyzed



Appendix A – Field Inspection Report

FIELD INSPECTION REPORT

Former MGP Site
Kingsley Avenue
Rome, New York

Date: 3/22/2018
Technician: KL

Time: 7:30
Weather: Sunny 28°

Site Controls				
Fence Condition	GOOD	FAIR	DAMAGED	COMMENTS:
Kingsley Ave Gate	GOOD	FAIR	DAMAGED	COMMENTS:
Padlock-NG/CDMSmith	OPERATIONAL	NON-OPERATIONAL		COMMENTS:
Railroad Ave Gate	GOOD	FAIR	DAMAGED	COMMENTS:
Padlock-NG/CDMSmith	OPERATIONAL	NON-OPERATIONAL		COMMENTS:

Vegetation (Surface Cover System)				
Condition of Grass	GOOD	FAIR	POOR	COMMENTS:
Site Trees	NONE	MINOR	SIGNIFICANT	COMMENTS:
Surface Erosion	NONE	MINOR	SIGNIFICANT	COMMENTS:

Stoned Areas				
Condition of Main Access Road	GOOD	FAIR	POOR	COMMENTS:
Condition of Main Staging Area	GOOD	FAIR	POOR	COMMENTS:
Condition of Rear Turn Around Area	GOOD	FAIR	POOR	COMMENTS:

Drainage Systems				
Rip Rap Area	Culvert	UNOBSTRUCTED	OBSTRUCTED	
	Flow	NONE	LITTLE	SIGNIFICANT
	Outlet Channel	OPERATIONAL	NON-OPERATIONAL	
				COMMENTS:

Miscellaneous				
Evidence of Trespassing	NO		YES	COMMENTS:
Litter	NONE	MINOR	SIGNIFICANT	COMMENTS:

General Comments:



Appendix B – Quarterly Gauging and Containment Data

Quarterly Well Data
Kingsley Avenue, Former MGP Site
Utica, New York

WELL ID.	DTW	DTP	DTB	Comments
MW-OU2-1	9.15	41.50	45.81	Removed 5 gallons of DNAPL
MW-OU2-2	9.85	47.20	47.53	
MW-OU2-3	6.60	NP	34.18	
MW-OU2-4	6.55	34.90	39.55	Removed 5 gallons of DNAPL
MW-OU2-5	7.20	NP	36.01	
DNAPL-02	9.35	NP	50.40	
DNAPL-03	9.60	NP	52.32	Trace
DNAPL-04	10.90	NP	51.45	
DNAPL-05	12.99	NP	54.75	
DNAPL-06	12.00	NP	51.45	
DNAPL-07	12.67	NP	53.60	
DNAPL-08	13.16	NP	58.01	
DNAPL-09	14.06	NP	57.58	
VTM-1	11.86	NP	46.37	
VTM-2	10.41	NP	49.47	
VTM-3	11.36	NP	50.91	
VTM-4	13.31	NP	50.62	
VTM-5	13.45	NP	52.52	
LTMW-D01	8.22	NP	46.84	
LTMW-S01	9.41	NP	16.92	
LTMW-D02	10.21	NP	40.29	
LTMW-S02	9.98	NP	17.98	
LTMW-D03	5.65	NP	40.73	
LTMW-S03	3.60	NP	13.70	
LTMW-D04	9.35	NP	46.36	
LTMW-S04	9.05	NP	17.26	
LTMW-D05	8.95	NP	46.53	
LTMW-S05	8.80	NP	16.83	
LTMW-D06	12.10	NP	52.22	
LTMW-S06	12.92	NP	17.60	
LTMW-S07	10.40	NP	17.82	
LTMW-S08	15.30	NP	17.39	
LTMW-S09	9.50	NP	16.92	
LTMW-S10	10.15	NP	17.18	

Containment

Well Id.	Elevation	DTW	Water Elevation	Positive Delta
DNAPL-02	436.81	9.35	427.46	6.38
Top Steel Sheet Wall	433.84			
DNAPL-03	437.23	9.60	427.63	3.58
Top Steel Sheet Wall	431.21			
DNAPL-04	438.50	10.90	427.60	5.22
Top Steel Sheet Wall	432.82			
DNAPL-05	440.60	12.99	427.61	2.59
Top Steel Sheet Wall	430.20			
DNAPL-06	439.71	12.00	427.71	5.84
Top Steel Sheet Wall	433.55			
VTM-1	439.74	11.86	427.88	3.94
Top Steel Sheet Wall	431.82			
VTM-2	438.33	10.41	427.92	4.78
Top Steel Sheet Wall	432.70			
VTM-3	439.44	11.36	428.08	8.84
Top Steel Sheet Wall	436.92			
VTM-4	441.59	13.31	428.28	5.26
Top Steel Sheet Wall	433.54			
VTM-5	441.79	13.45	428.34	7.66
Top Steel Sheet Wall	436.00			



Appendix C – Well Sampling Field Data

Sampling Personnel: PD
Job Number: 06-03000
Well Id. LTMW-D01

Date: 3/21
Weather: 25° OVERCAST
Time In: 1150 Time Out: 1240

Well Information		
	TOC	Other
Depth to Water: (feet)	<u>8.22</u>	
Depth to Bottom: (feet)	<u>46.84</u>	
Depth to Product: (feet)	<u>NP</u>	
Length of Water Column: (feet)	<u>38.62</u>	
Volume of Water in Well: (gal)	<u>6.17g</u>	
Three Well Volumes: (gal)	<u>18.53g</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"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="5">Conversion Factors</th> </tr> <tr> <th>gal/ft. of water</th> <th>1" ID</th> <th>2" ID</th> <th>4" ID</th> <th>6" ID</th> </tr> </thead> <tbody> <tr> <td></td> <td>0.04</td> <td>0.16</td> <td>0.66</td> <td>1.47</td> </tr> <tr> <td colspan="5">1 gallon=3.785L=3785mL=1337cu. feet</td> </tr> </tbody> </table>	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				
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																							
Tubing/Bailer Material:	Teflon <input type="checkbox"/> Stainless St. <input checked="" 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>~180</u>																						
Duration of Pumping: (min)	<u>30</u>																						
Total Volume Removed: (gal)	<u>~1.5g</u>	Did well go dry? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>																					
Horiba U-52 Water Quality Meter Used? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																							

Time	DTW (feet)	Temp (°C)	pH	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
<u>1155</u>	<u>10.45</u>	<u>8.45</u>	<u>7.26</u>	<u>-124</u>	<u>0.444</u>	<u>0</u>	<u>3.02</u>	<u>0.288</u>
<u>1200</u>	<u>12.95</u>	<u>9.04</u>	<u>7.41</u>	<u>-173</u>	<u>0.434</u>	<u>0</u>	<u>2.12</u>	<u>0.283</u>
<u>1205</u>	<u>13.75</u>	<u>9.20</u>	<u>7.44</u>	<u>-170</u>	<u>0.431</u>	<u>0</u>	<u>2.00</u>	<u>0.280</u>
<u>1210</u>	<u>14.30</u>	<u>9.35</u>	<u>7.49</u>	<u>-165</u>	<u>0.425</u>	<u>0</u>	<u>1.87</u>	<u>0.276</u>
<u>1215</u>	<u>14.80</u>	<u>9.42</u>	<u>7.44</u>	<u>-159</u>	<u>0.428</u>	<u>0</u>	<u>1.84</u>	<u>0.278</u>
<u>1220</u>	<u>15.55</u>	<u>9.50</u>	<u>7.46</u>	<u>-158</u>	<u>0.425</u>	<u>0</u>	<u>1.80</u>	<u>0.276</u>
<u>1225</u>	<u>16.00</u>	<u>9.48</u>	<u>7.46</u>	<u>-157</u>	<u>0.420</u>	<u>0</u>	<u>1.82</u>	<u>0.277</u>

Sampling Information:			
EPA SW-846 Method 8270	SVOC PAH's	2 - 1 liter ambers	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
EPA SW-846 Method 8260	VOC's BTEX	3 - 40 ml vials	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
EPA Method 335.4	Cyanide	1 - 250 ml plastic	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
EPA Method 200.7	Metals	1 - 250 ml plastic	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Sample ID: <u>LTMW-D01-0318</u>	Duplicate? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Shipped: Pace Courier Pickup <input checked="" type="checkbox"/>	
Sample Time: <u>1230</u>	MS/MSD? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Drop-off Albany Service Center <input type="checkbox"/>	
Comments/Notes: <u>NONE</u>		Laboratory: Pace Analytical Greensburg, PA	

Sampling Personnel: PD
Job Number: 06-03000
Well Id. LTMW-S01

Date: 3/21
Weather: 25° - overcast
Time In: 1100 Time Out: 1155

Well Information		
	TOC	Other
Depth to Water: (feet)	<u>9.41</u>	
Depth to Bottom: (feet)	<u>16.92</u>	
Depth to Product: (feet)	<u>NP</u>	
Length of Water Column: (feet)	<u>7.51</u>	
Volume of Water in Well: (gal)	<u>1.20</u>	
Three Well Volumes: (gal)	<u>3.60</u>	

Well Type:	Flushmount <input type="checkbox"/>	Stick-Up <input checked="" 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: <input type="text"/>		

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>~180</u>	
Duration of Pumping: (min)	<u>30</u>	
Total Volume Removed: (gal)	<u>~1.5g</u>	Did well go dry? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Horiba U-52 Water Quality Meter Used? 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)	Temp (°C)	pH	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
<u>1105</u>	<u>8.45</u>	<u>6.62</u>	<u>5.95</u>	<u>-91</u>	<u>0.796</u>	<u>8.9</u>	<u>9.33</u>	<u>0.511</u>
<u>1110</u>	<u>8.45</u>	<u>6.75</u>	<u>5.99</u>	<u>-93</u>	<u>0.793</u>	<u>5.8</u>	<u>7.29</u>	<u>0.505</u>
<u>1115</u>	<u>8.45</u>	<u>6.86</u>	<u>5.98</u>	<u>-93</u>	<u>0.781</u>	<u>2.5</u>	<u>8.02</u>	<u>0.504</u>
<u>1120</u>	<u>8.45</u>	<u>6.94</u>	<u>6.00</u>	<u>-96</u>	<u>0.788</u>	<u>0</u>	<u>8.27</u>	<u>0.504</u>
<u>1125</u>	<u>8.45</u>	<u>7.03</u>	<u>6.00</u>	<u>-96</u>	<u>0.777</u>	<u>0</u>	<u>8.68</u>	<u>0.497</u>
<u>1130</u>	<u>8.45</u>	<u>7.15</u>	<u>6.00</u>	<u>-95</u>	<u>0.784</u>	<u>0</u>	<u>8.69</u>	<u>0.503</u>
<u>1135</u>	<u>8.45</u>	<u>7.14</u>	<u>5.99</u>	<u>-94</u>	<u>0.787</u>	<u>0</u>	<u>8.60</u>	<u>0.502</u>

Sampling Information:			
EPA SW-846 Method 8270	SVOC PAH's	2 - 1 liter ambers	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
EPA SW-846 Method 8260	VOC's BTEX	3 - 40 ml vials	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
EPA Method 335.4	Cyanide	1 - 250 ml plastic	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
EPA Method 200.7	Metals	1 - 250 ml plastic	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Sample ID: <u>LTMW-S01-0318</u>	Duplicate? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Shipped: Pace Courier Pickup <input checked="" type="checkbox"/>	
Sample Time: <u>1140</u>	MS/MSD? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Drop-off Albany Service Center <input type="checkbox"/>	
Comments/Notes: <u>none</u>		Laboratory: Pace Analytical Greensburg, PA	

National Grid
Kingsley Avenue, Rome, New York

Sampling Personnel: K
Job Number: 06-03000
Well Id. LTMW-S02 LTMW-D 02

Date: 3/21/18
Weather: Cloudy 24°
Time In: 10:00 Time Out: 11:00

Well Information		TOC	Other
Depth to Water:	(feet)	<u>10.21</u>	
Depth to Bottom:	(feet)	<u>47.08</u>	<u>40.29</u>
Depth to Product:	(feet)	<u>—</u>	
Length of Water Column:	(feet)	<u>30.08</u>	
Volume of Water in Well:	(gal)	<u>4.81</u>	
Three Well Volumes:	(gal)	<u>14.43</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"/>	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"/>	of				
Sampling Method:	Bailer <input type="checkbox"/> Peristaltic <input checked="" type="checkbox"/> Grundfos Pump <input type="checkbox"/>	water	0.04	0.16	0.66	1.47
Average Pumping Rate:	(ml/min) <u>280</u>	1 gallon=3.785L=3785mL=1337cu. 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"/>						
Horiba U-52 Water Quality Meter Used? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>						

Time	DTW (feet)	Temp (°C)	pH	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
10:10	11.60	3.5	8.34	-96	0.307	51.2	5.75	0.188
10:15	12.30	4.19	8.17	-59	0.217	50.4	9.74	0.140
10:20	12.84	4.81	7.65	-10	0.271	43.4	7.30	0.209
10:25	13.06	5.13	7.28	4	0.526	32.9	0.83	0.341
10:30	13.43	5.33	7.41	-11	0.613	24.9	0.28	0.379
10:35	13.51	5.81	7.74	-17	0.645	21.5	0.08	0.414
10:40	13.52	5.8	7.40	-21	0.664	16.0	0.00	0.425

Sampling Information:		2 - 1 liter ambers		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
EPA SW-846 Method 8270	SVOC PAH's	3 - 40 ml vials	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
EPA SW-846 Method 8260	VOC's BTEX	1 - 250 ml plastic	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
EPA Method 335.4	Cyanide	1 - 250 ml plastic	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
EPA Method 200.7	Metals			
Sample ID: <u>LTMW-S02-0318</u>	Duplicate? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Shipped: Pace Courier Pickup <input checked="" type="checkbox"/>		
Sample Time: <u>10:40</u>	MS/MSD? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Drop-off Albany Service Center <input type="checkbox"/>		
Comments/Notes:		Laboratory: Pace Analytical	Greensburg, PA	

Sampling Personnel: KL
Job Number: 06-03000
Well Id. LTMW-D02 LTmw-502

Date: 3/21/18
Weather: Cloudy 24°
Time In: 09:20 Time Out: 10:10

Well Information		TOC	Other
Depth to Water:	(feet)	<u>9.98</u>	
Depth to Bottom:	(feet)	<u>40.28</u>	<u>17.98</u>
Depth to Product:	(feet)		
Length of Water Column:	(feet)	<u>8.00</u>	
Volume of Water in Well:	(gal)	<u>1.28</u>	
Three Well Volumes:	(gal)	<u>3.84</u>	

Well Type:	Flushmount <input type="checkbox"/>	Stick-Up <input checked="" 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		Conversion Factors					
Purging Method:	Bailer <input type="checkbox"/> Peristaltic <input checked="" type="checkbox"/>	Grundfos Pump <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"/>	of				
Sampling Method:	Bailer <input type="checkbox"/> Peristaltic <input checked="" type="checkbox"/>	Grundfos Pump <input type="checkbox"/>	water	0.04	0.16	0.66	1.47
Average Pumping Rate:	(ml/min) <u>2.00</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"/>					
Horiba U-52 Water Quality Meter Used? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>							

Time	DTW (feet)	Temp (°C)	pH	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
09:20	10.12	3.34	8.30	-116	0.612	355	3.30	0.388
09:25	10.17	3.35	8.45	-106	0.550	621	1.21	0.351
09:30	10.17	3.39	8.39	-98	0.546	132	1.60	0.350
09:35	10.17	3.57	8.34	-97	0.544	134	1.45	0.349
09:40	10.17	3.58	8.36	-96	0.544	104	1.34	0.347
09:45	10.17	3.41	8.40	-94	0.527	65.5	1.00	0.337
09:50	10.17	3.40	8.39	-94	0.525	60.3	0.98	0.333

Sampling Information:		2 - 1 liter ambers		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
EPA SW-846 Method 8270	SVOC PAH's	3 - 40 ml vials	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
EPA SW-846 Method 8260	VOC's BTEX	1 - 250 ml plastic	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
EPA Method 335.4	Cyanide	1 - 250 ml plastic	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
EPA Method 200.7	Metals			
<p>S02-0316</p> <p>Sample ID: <u>LTMW-D02-0318</u> Duplicate? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p> <p>Sample Time: <u>09:50</u> MS/MSD? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p> <p>Shipped: Pace Courier Pickup <input checked="" type="checkbox"/> Drop-off Albany Service Center <input type="checkbox"/></p> <p>Laboratory: Pace Analytical Greensburg, PA</p>				
Comments/Notes: 				

Sampling Personnel: PD
Job Number: 06-03000
Well Id. LTMW-803-003

Date: 3/21
Weather: 30° overcast
Time In: 1330 Time Out: 1415

Well Information

		TOC	Other
Depth to Water:	(feet)	<u>5.65</u>	
Depth to Bottom:	(feet)	<u>43.70</u>	<u>40.73</u>
Depth to Product:	(feet)	<u>NP</u>	
Length of Water Column:	(feet)	<u>35.08</u>	
Volume of Water in Well:	(gal)	<u>5.61</u>	
Three Well Volumes:	(gal)	<u>16.83</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 ☐
Tubing/Bailer Material: Teflon ☐ Stainless St. ☐ Polyethylene ☒
Sampling Method: Bailer ☐ Peristaltic ☒ Grundfos Pump ☐
Average Pumping Rate: (ml/min) ~180
Duration of Pumping: (min) 30
Total Volume Removed: (gal) ~1.5g 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)	Temp (°C)	pH	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
<u>1335</u>	<u>6.55</u>	<u>8.90</u>	<u>6.90</u>	<u>-220</u>	<u>0.331</u>	<u>3.1</u>	<u>2.96</u>	<u>0.209</u>
<u>1340</u>	<u>6.66</u>	<u>9.48</u>	<u>8.11</u>	<u>-182</u>	<u>0.480</u>	<u>0.9</u>	<u>2.61</u>	<u>0.321</u>
<u>1345</u>	<u>7.48</u>	<u>9.67</u>	<u>6.90</u>	<u>-153</u>	<u>0.681</u>	<u>0</u>	<u>2.10</u>	<u>0.438</u>
<u>1350</u>	<u>7.71</u>	<u>9.69</u>	<u>6.74</u>	<u>-140</u>	<u>0.720</u>	<u>0</u>	<u>1.96</u>	<u>0.461</u>
<u>1355</u>	<u>7.95</u>	<u>9.90</u>	<u>6.60</u>	<u>-131</u>	<u>0.758</u>	<u>0</u>	<u>1.79</u>	<u>0.485</u>
<u>1400</u>	<u>8.10</u>	<u>10.00</u>	<u>6.55</u>	<u>-127</u>	<u>0.778</u>	<u>0</u>	<u>1.70</u>	<u>0.489</u>
<u>1405</u>	<u>8.20</u>	<u>10.01</u>	<u>6.53</u>	<u>-126</u>	<u>0.780</u>	<u>0</u>	<u>1.66</u>	<u>0.492</u>

Sampling Information:

EPA SW-846 Method 8270 SVOC PAH's 2 - 1 liter ambers Yes ☒ No ☐
EPA SW-846 Method 8260 VOC's BTEX 3 - 40 ml vials Yes ☒ No ☐
EPA Method 335.4 Cyanide 1 - 250 ml plastic Yes ☒ No ☐
EPA Method 200.7 Metals 1 - 250 ml plastic Yes ☒ No ☐
Sample ID: LTMW-803-0318 Duplicate? Yes ☐ No ☒
Sample Time: 1405 MS/MSD? Yes ☐ No ☒
Shipped: Pace Courier Pickup ☒
Drop-off Albany Service Center ☐

Comments/Notes:

NONE

Laboratory: Pace Analytical
Greensburg, PA

Sampling Personnel: PO
Job Number: 06-03000
Well Id. LTMW-D03 S03

Date: 3/21
Weather: 30° overcast
Time In: 1245 Time Out: 1330

Well Information		TOC	Other
Depth to Water:	(feet)	<u>3.60</u>	
Depth to Bottom:	(feet)	<u>40.73</u> → <u>13.70</u>	
Depth to Product:	(feet)	<u>NP</u>	
Length of Water Column:	(feet)	<u>37.13</u> → <u>10.10</u>	
Volume of Water in Well:	(gal)	<u>5.94</u> → <u>1.62</u>	
Three Well Volumes:	(gal)	<u>17.82</u> → <u>4.85</u>	

Well Type:	Flushmount <input type="checkbox"/>	Stick-Up <input checked="" 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: <input type="text"/>		

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>~180</u>	
Duration of Pumping:	(min)	<u>30</u>	
Total Volume Removed:	(gal)	<u>~1.5g</u>	Did well go dry? Yes <input type="checkbox"/> No <input type="checkbox"/>
Horiba U-52 Water Quality Meter Used?		Yes <input checked="" type="checkbox"/> No <input checked="" 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)	Temp (°C)	pH	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
<u>1250</u>	<u>3.60</u>	<u>7.12</u>	<u>6.57</u>	<u>-43</u>	<u>0.353</u>	<u>100</u>	<u>4.79</u>	<u>0.231</u>
<u>1255</u>	<u>3.60</u>	<u>6.74</u>	<u>5.81</u>	<u>-51</u>	<u>0.381</u>	<u>29.4</u>	<u>2.51</u>	<u>0.247</u>
<u>1300</u>	<u>3.60</u>	<u>6.77</u>	<u>5.78</u>	<u>-62</u>	<u>0.386</u>	<u>8.3</u>	<u>2.11</u>	<u>0.257</u>
<u>1305</u>	<u>3.60</u>	<u>6.67</u>	<u>5.74</u>	<u>-66</u>	<u>0.385</u>	<u>5.0</u>	<u>1.92</u>	<u>0.250</u>
<u>1310</u>	<u>3.60</u>	<u>6.66</u>	<u>5.73</u>	<u>-68</u>	<u>0.391</u>	<u>3.0</u>	<u>2.05</u>	<u>0.254</u>
<u>1315</u>	<u>3.60</u>	<u>6.63</u>	<u>5.72</u>	<u>-69</u>	<u>0.391</u>	<u>2.5</u>	<u>1.84</u>	<u>0.254</u>
<u>1320</u>	<u>3.60</u>	<u>6.63</u>	<u>5.72</u>	<u>-70</u>	<u>0.392</u>	<u>1.8</u>	<u>1.78</u>	<u>0.255</u>

Sampling Information:			
EPA SW-846 Method 8270	SVOC PAH's	2 - 1 liter ambers	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
EPA SW-846 Method 8260	VOC's BTEX	3 - 40 ml vials	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
EPA Method 335.4	Cyanide	1 - 250 ml plastic	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
EPA Method 200.7	Metals	1 - 250 ml plastic	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Sample ID: <u>LTMW-D03-0318</u>	Duplicate? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Shipped: Pace Courier Pickup <input checked="" type="checkbox"/>	
Sample Time: <u>1320</u>	MS/MSD? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Drop-off Albany Service Center <input type="checkbox"/>	
Comments/Notes: <input type="text"/>		Laboratory: Pace Analytical Greensburg, PA	

Sampling Personnel: KL

Job Number: 06-03000

Well Id. **LTMW-D04**

Date: 3/21/10

Weather: Cloudy 31

Time In: 11:55

Time Out: 12:45

Well Information

	TOC	Other
Depth to Water: (feet)	<u>9.35</u>	
Depth to Bottom: (feet)	<u>46.36</u>	
Depth to Product: (feet)	<u>—</u>	
Length of Water Column: (feet)	<u>37.01</u>	
Volume of Water in Well: (gal)	<u>5.92</u>	
Three Well Volumes: (gal)	<u>17.76</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 ☐
 Tubing/Bailer Material: Teflon ☐ Stainless St. ☐ Polyethylene ☒
 Sampling Method: Bailer ☐ Peristaltic ☒ Grundfos Pump ☐
 Average Pumping Rate: (ml/min) 200
 Duration of Pumping: (min) 30
 Total Volume Removed: (gal) 2 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)	Temp (°C)	pH	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
<u>12:00</u>	<u>9.73</u>	<u>5.26</u>	<u>6.75</u>	<u>302</u>	<u>0.511</u>	<u>13.5</u>	<u>0.00</u>	<u>0.327</u>
<u>12:05</u>	<u>10.68</u>	<u>6.19</u>	<u>7.39</u>	<u>254</u>	<u>0.500</u>	<u>11.4</u>	<u>0.00</u>	<u>0.320</u>
<u>12:10</u>	<u>10.72</u>	<u>6.68</u>	<u>7.56</u>	<u>150</u>	<u>0.511</u>	<u>6.5</u>	<u>0.00</u>	<u>0.307</u>
<u>12:15</u>	<u>10.75</u>	<u>6.75</u>	<u>7.63</u>	<u>66</u>	<u>0.519</u>	<u>5.8</u>	<u>0.00</u>	<u>0.332</u>
<u>12:20</u>	<u>10.75</u>	<u>6.91</u>	<u>7.72</u>	<u>7</u>	<u>0.524</u>	<u>5.3</u>	<u>0.00</u>	<u>0.335</u>
<u>12:25</u>	<u>10.75</u>	<u>7.08</u>	<u>7.83</u>	<u>-27</u>	<u>0.527</u>	<u>5.0</u>	<u>0.00</u>	<u>0.337</u>
<u>12:30</u>	<u>10.75</u>	<u>7.13</u>	<u>7.87</u>	<u>-33</u>	<u>0.525</u>	<u>5.0</u>	<u>0.00</u>	<u>0.335</u>

Sampling Information:

EPA SW-846 Method 8270
 EPA SW-846 Method 8260
 EPA Method 335.4
 EPA Method 200.7

SVOC PAH's
 VOC's BTEX
 Cyanide
 Metals

2 - 1 liter ambers Yes ☒ No ☐
 3 - 40 ml vials Yes ☒ No ☐
 1 - 250 ml plastic Yes ☒ No ☐
 1 - 250 ml plastic Yes ☒ No ☐

Sample ID: **LTMW-D04-0318**

Sample Time: 12:30

Duplicate? Yes ☐ No ☒

MS/MSD? Yes ☐ No ☒

Shipped: Pace Courier Pickup ☒
 Drop-off Albany Service Center ☐

Comments/Notes:

Laboratory: Pace Analytical
 Greensburg, PA

Sampling Personnel: K
Job Number: 06-03000
Well Id. **LTMW-S04**

Date: 3/21/18
Weather: Cloudy 29°
Time In: 11:05 Time Out: 11:35

Well Information

	TOC	Other
Depth to Water: (feet)	<u>9.05</u>	
Depth to Bottom: (feet)	17.26	
Depth to Product: (feet)	<u>7.51</u>	<u>9.21</u>
Length of Water Column: (feet)	<u>7.51</u>	<u>9.21</u>
Volume of Water in Well: (gal)	<u>1.20</u>	<u>1.31</u>
Three Well Volumes: (gal)	<u>3.60</u>	<u>3.94</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:
Tubing/Bailer Material:
Sampling Method:

Bailer ☐ Peristaltic ☒ Grundfos Pump ☐
Teflon ☐ Stainless St. ☐ Polyethylene ☒
Bailer ☐ Peristaltic ☒ Grundfos Pump ☐

Average Pumping Rate: (ml/min) 200
Duration of Pumping: (min) 30
Total Volume Removed: (gal) 2

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)	Temp (°C)	pH	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
11:10	<u>9.47</u>	<u>4.66</u>	<u>6.77</u>	<u>225</u>	<u>0.318</u>	<u>9.2</u>	<u>6.57</u>	<u>0.206</u>
11:15	<u>9.58</u>	<u>4.67</u>	<u>6.24</u>	<u>299</u>	<u>0.320</u>	<u>7.4</u>	<u>9.31</u>	<u>0.207</u>
11:20	<u>9.70</u>	<u>4.65</u>	<u>6.24</u>	<u>319</u>	<u>0.319</u>	<u>4.1</u>	<u>10.24</u>	<u>0.208</u>
11:25	<u>9.70</u>	<u>4.71</u>	<u>6.13</u>	<u>333</u>	<u>0.315</u>	<u>4.0</u>	<u>7.95</u>	<u>0.205</u>
11:30	<u>9.71</u>	<u>4.76</u>	<u>6.09</u>	<u>337</u>	<u>0.317</u>	<u>4.3</u>	<u>7.17</u>	<u>0.206</u>
11:35	<u>9.71</u>	<u>4.77</u>	<u>6.07</u>	<u>342</u>	<u>0.313</u>	<u>4.3</u>	<u>7.13</u>	<u>0.207</u>
11:40	<u>9.71</u>	<u>4.80</u>	<u>6.13</u>	<u>344</u>	<u>0.318</u>	<u>4.0</u>	<u>8.43</u>	<u>0.206</u>

Sampling Information:

EPA SW-846 Method 8270 SVOC PAH's
EPA SW-846 Method 8260 VOC's BTEX
EPA Method 335.4 Cyanide
EPA Method 200.7 Metals

2 - 1 liter ambers. Yes ☒ No ☐
3 - 40 ml vials Yes ☒ No ☐
1 - 250 ml plastic Yes ☒ No ☐
1 - 250 ml plastic Yes ☒ No ☐

Sample ID: **LTMW-S04-0318** Duplicate? Yes ☐ No ☒
Sample Time: 11:40 MS/MSD? Yes ☐ No ☒

Shipped: Pace Courier Pickup ☒
Drop-off Albany Service Center ☐

Comments/Notes:

Laboratory: Pace Analytical
Greensburg, PA

Sampling Personnel: PD
Job Number: 06-03000
Well Id. LTMW-D05

Date: 3/21
Weather: 30° - clear
Time In: 1505 Time Out: 1550

Well Information			TOC	Other
Depth to Water:	(feet)	<u>895</u>		
Depth to Bottom:	(feet)	<u>46.53</u>		
Depth to Product:	(feet)	<u>NP</u>		
Length of Water Column:	(feet)	<u>37.53</u>		
Volume of Water in Well:	(gal)	<u>6.014</u>		
Three Well Volumes:	(gal)	<u>18.033</u>		

Well Type:	Flushmount	<input type="checkbox"/>	Stick-Up	<input checked="" 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"/>
Well Diameter:	1"	<input type="checkbox"/>	2"	<input checked="" type="checkbox"/>
Comments:				

Purging Information			
Purging Method:	Bailer	<input type="checkbox"/>	Peristaltic
Tubing/Bailer Material:	Teflon	<input type="checkbox"/>	Stainless St.
Sampling Method:	Bailer	<input type="checkbox"/>	Peristaltic
Average Pumping Rate:	(ml/min)	<u>~130</u>	
Duration of Pumping:	(min)	<u>30</u>	
Total Volume Removed:	(gal)	<u>~1.5g</u>	
Did well go dry?		Yes	<input type="checkbox"/>
		No	<input checked="" type="checkbox"/>
Horiba U-52 Water Quality Meter Used?		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)	Temp (°C)	pH	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
1510	10.75	9.63	6.18	33	0.325	0	6.80	0.211
1515	12.00	9.56	6.63	27	0.322	0	6.78	0.209
1520	12.85	9.64	6.78	36	0.321	0	6.67	0.209
1525	14.00	9.61	6.88	47	0.322	0	6.72	0.209
1530	14.35	9.65	6.89	53	0.322	0	6.72	0.209
1535	14.65	9.60	6.91	56	0.322	0	6.73	0.209
1540	14.85	9.63	6.93	59	0.322	0	6.72	0.209

Sampling Information:			
EPA SW-846 Method 8270	SVOC PAH's	2 - 1 liter ambers	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
EPA SW-846 Method 8260	VOC's BTEX	3 - 40 ml vials	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
EPA Method 335.4	Cyanide	1 - 250 ml plastic	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
EPA Method 200.7	Metals	1 - 250 ml plastic	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Sample ID: <u>LTMW-D05-0318</u>	Duplicate?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Shipped: Pace Courier Pickup <input checked="" type="checkbox"/>
Sample Time: <u>1545</u>	MS/MSD?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Drop-off Albany Service Center <input type="checkbox"/>
Comments/Notes: <u>NONE</u>		Laboratory: Pace Analytical Greensburg, PA	

Sampling Personnel: PD
Job Number: 06-03000
Well Id. LTMW-S05

Date: 3/21
Weather: 30° overcast
Time In: 1420 Time Out: 1500

Well Information		
	TOC	Other
Depth to Water:	(feet) <u>8.80</u>	
Depth to Bottom:	(feet) <u>16.83</u>	
Depth to Product:	(feet) <u>NP</u>	
Length of Water Column:	(feet) <u>8.03</u>	
Volume of Water in Well:	(gal) <u>1.28</u>	
Three Well Volumes:	(gal) <u>3.85</u>	

Well Type:	Flushmount <input type="checkbox"/>	Stick-Up <input checked="" 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>~180</u>		
Duration of Pumping:	(min) <u>30</u>		
Total Volume Removed:	(gal) <u>~1.59</u>	Did well go dry? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Horiba U-52 Water Quality Meter Used?		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)	Temp (°C)	pH	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
1425	9.45	9.50	6.14	171	0.417	11.9	7.07	0.274
1430	9.51	7.97	5.83	241	0.429	11.0	12.21	0.276
1435	9.50	7.82	6.77	218	0.436	0	6.34	0.284
1440	9.51	7.79	5.75	151	0.434	0	6.06	0.281
1445	9.55	8.14	5.73	101	0.432	0	7.09	0.282
1450	9.55	8.04	5.74	75	0.428	0	7.51	0.279
1455	9.55	8.15	5.72	69	0.432	0	7.70	0.281

Sampling Information:			
EPA SW-846 Method 8270	SVOC PAH's	2 - 1 liter ambers	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
EPA SW-846 Method 8260	VOC's BTEX	3 - 40 ml vials	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
EPA Method 335.4	Cyanide	1 - 250 ml plastic	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
EPA Method 200.7	Metals	1 - 250 ml plastic	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Sample ID: <u>LTMW-S05-0318</u>	Duplicate? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Shipped: Pace Courier Pickup <input checked="" type="checkbox"/>	
Sample Time: <u>1455</u>	MS/MSD? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Drop-off Albany Service Center <input type="checkbox"/>	
Comments/Notes: <u>NONE</u>		Laboratory: Pace Analytical Greensburg, PA	

Sampling Personnel: KC
Job Number: 06-03000
Well Id. LTMW-D06

Date: 3/21/18
Weather: PC 36°
Time In: 12:50 Time Out: 13:30

Well Information

		TOC	Other
Depth to Water:	(feet)	<u>12.10</u>	
Depth to Bottom:	(feet)	<u>52.22</u>	
Depth to Product:	(feet)	<u>—</u>	
Length of Water Column:	(feet)	<u>40-12</u>	
Volume of Water in Well:	(gal)	<u>6.41</u>	
Three Well Volumes:	(gal)	<u>19.25</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: —
Tubing/Bailer Material: —
Sampling Method: —
Average Pumping Rate: (ml/min) 200
Duration of Pumping: (min) 30
Total Volume Removed: (gal) 2
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)	Temp (°C)	pH	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
<u>12:55</u>	<u>12.75</u>	<u>8.09</u>	<u>7.95</u>	<u>71</u>	<u>0.384</u>	<u>4.2</u>	<u>2.98</u>	<u>0.248</u>
<u>13:00</u>	<u>13.11</u>	<u>8.98</u>	<u>7.79</u>	<u>103</u>	<u>0.368</u>	<u>5.9</u>	<u>2.39</u>	<u>0.239</u>
<u>13:05</u>	<u>13.17</u>	<u>9.09</u>	<u>7.76</u>	<u>86</u>	<u>0.369</u>	<u>4.5</u>	<u>1.13</u>	<u>0.239</u>
<u>13:10</u>	<u>13.20</u>	<u>9.09</u>	<u>7.83</u>	<u>30</u>	<u>0.369</u>	<u>4.1</u>	<u>0.48</u>	<u>0.240</u>
<u>13:15</u>	<u>13.21</u>	<u>9.08</u>	<u>7.85</u>	<u>2</u>	<u>0.379</u>	<u>3.7</u>	<u>0.07</u>	<u>0.247</u>
<u>13:20</u>	<u>13.22</u>	<u>9.23</u>	<u>7.95</u>	<u>-30</u>	<u>0.408</u>	<u>3.2</u>	<u>0.00</u>	<u>0.266</u>
<u>13:25</u>	<u>13.22</u>	<u>9.13</u>	<u>8.04</u>	<u>-42</u>	<u>0.425</u>	<u>2.9</u>	<u>0.00</u>	<u>0.276</u>

Sampling Information:

EPA SW-846 Method 8270 SVOC PAH's 2 - 1 liter ambers Yes ☒ No ☐
EPA SW-846 Method 8260 VOC's BTEX 3 - 40 ml vials Yes ☒ No ☐
EPA Method 335.4 Cyanide 1 - 250 ml plastic Yes ☒ No ☐
EPA Method 200.7 Metals 1 - 250 ml plastic Yes ☒ No ☐

Sample ID: LTMW-D06-0318 Duplicate? Yes ☐ No ☒
Sample Time: 13:25 MS/MSD? Yes ☐ No ☒

Shipped: Pace Courier Pickup ☒
Drop-off Albany Service Center ☐

Comments/Notes: —

Laboratory: Pace Analytical
Greensburg, PA

Sampling Personnel: IK
Job Number: 06-03000
Well Id. **LTMW-S06**

Date: 3/21/18
Weather: PC 37°
Time In: 13:30 Time Out: 1:30

Well Information		
	TOC	Other
Depth to Water: (feet)	<u>12.92</u>	
Depth to Bottom: (feet)	<u>17.60</u>	
Depth to Product: (feet)		
Length of Water Column: (feet)		
Volume of Water in Well: (gal)		
Three Well Volumes: (gal)		

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"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="5">Conversion Factors</th> </tr> <tr> <th>gal/ft. of water</th> <th>1" ID</th> <th>2" ID</th> <th>4" ID</th> <th>6" ID</th> </tr> </thead> <tbody> <tr> <td></td> <td>0.04</td> <td>0.16</td> <td>0.66</td> <td>1.47</td> </tr> <tr> <td colspan="5">1 gallon=3.785L=3785mL=133.7cu. feet</td> </tr> </tbody> </table>	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				
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																							
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>200</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"/>																					
Horiba U-52 Water Quality Meter Used? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																							

Time	DTW (feet)	Temp (°C)	pH	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
<u>13:40</u>	<u>13.05</u>	<u>6.84</u>	<u>7.09</u>	<u>7</u>	<u>1.46</u>	<u>94.6</u>	<u>0.00</u>	<u>0.943</u>
<u>13:45</u>	<u>13.02</u>	<u>6.63</u>	<u>7.05</u>	<u>5</u>	<u>1.51</u>	<u>31.1</u>	<u>0.00</u>	<u>0.964</u>
<u>13:50</u>	<u>13.02</u>	<u>6.49</u>	<u>7.04</u>	<u>5</u>	<u>1.51</u>	<u>21.5</u>	<u>0.00</u>	<u>0.964</u>
<u>13:55</u>	<u>13.02</u>	<u>6.59</u>	<u>7.04</u>	<u>7</u>	<u>1.50</u>	<u>10.4</u>	<u>0.00</u>	<u>0.962</u>
<u>14:00</u>	<u>13.02</u>	<u>6.43</u>	<u>7.06</u>	<u>7</u>	<u>1.50</u>	<u>6.4</u>	<u>0.00</u>	<u>0.962</u>
<u>14:05</u>	<u>13.02</u>	<u>6.41</u>	<u>7.08</u>	<u>9</u>	<u>1.49</u>	<u>3.7</u>	<u>0.00</u>	<u>0.956</u>
<u>14:10</u>	<u>13.02</u>	<u>6.39</u>	<u>7.09</u>	<u>9</u>	<u>1.49</u>	<u>3.2</u>	<u>0.00</u>	<u>0.955</u>

Sampling Information:			
EPA SW-846 Method 8270	SVOC PAH's	2 - 1 liter ambers	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
EPA SW-846 Method 8260	VOC's BTEX	3 - 40 ml vials	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
EPA Method 335.4	Cyanide	1 - 250 ml plastic	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
EPA Method 200.7	Metals	1 - 250 ml plastic	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Sample ID: LTMW-S06-0318	Duplicate? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Shipped: Pace Courier Pickup <input checked="" type="checkbox"/>	
Sample Time: <u>14:10</u>	MS/MSD? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Drop-off Albany Service Center <input type="checkbox"/>	
Comments/Notes: _____		Laboratory: Pace Analytical Greensburg, PA	

Sampling Personnel: PD
Job Number: 06-03000
Well Id. LTMW-S07

Date: 3/21/18
Weather: 22° - overcast
Time In: 1005 Time Out: 1055

Well Information		
Depth to Water:	(feet)	10.40
Depth to Bottom:	(feet)	17.82
Depth to Product:	(feet)	NP
Length of Water Column:	(feet)	7.42
Volume of Water in Well:	(gal)	1.18g
Three Well Volumes:	(gal)	3.56g

Well Type:	Flushmount <input type="checkbox"/>	Stick-Up <input checked="" 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			
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)	~180	
Duration of Pumping:	(min)	30	
Total Volume Removed:	(gal)	~1.5g	
Did well go dry?		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Horiba U-52 Water Quality Meter Used?		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)	Temp (°C)	pH	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
1010	11.65	6.50	6.34	132	0.582	0.3	10.30	0.372
1015	11.88	6.45	6.09	119	0.578	1.6	7.76	0.393
1020	11.82	6.38	6.02	56	0.588	116	6.55	0.372
1025	11.87	6.42	6.00	32	0.591	0	5.40	0.376
1030	11.92	6.49	5.93	14	0.598	0	4.63	0.380
1035	11.96	6.56	5.92	9	0.590	0	4.44	0.378
1040	12.00	6.58	5.91	5	0.592	0	4.44	0.377

Sampling Information:			
EPA SW-846 Method 8270	SVOC PAH's	2 - 1 liter ambers	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
EPA SW-846 Method 8260	VOC's BTEX	3 - 40 ml vials	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
EPA Method 335.4	Cyanide	1 - 250 ml plastic	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
EPA Method 200.7	Metals	1 - 250 ml plastic	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Sample ID: <u>LTMW-S07-0318</u>	Duplicate?	Shipped: Pace Courier Pickup <input checked="" type="checkbox"/>	
Sample Time: <u>1040</u>	MS/MSD?	Drop-off Albany Service Center <input type="checkbox"/>	
Comments/Notes:		Laboratory: Pace Analytical Greensburg, PA	

NONE

Sampling Personnel: K
Job Number: 06-03000
Well Id. **LTMW-S08**

Date: 3/21/10
Weather: sun 40
Time In: 14:20 Time Out: 15:10

Well Information		TOC	Other
Depth to Water:	(feet)	<u>15.30</u>	
Depth to Bottom:	(feet)	17.39	
Depth to Product:	(feet)		
Length of Water Column:	(feet)	<u>2.09</u>	
Volume of Water in Well:	(gal)	<u>.54</u>	
Three Well Volumes:	(gal)	<u>1.63</u>	

Well Type:	Flushmount	<input type="checkbox"/>	Stick-Up	<input checked="" 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"/>
Well Diameter:	1"	<input type="checkbox"/>	2"	<input checked="" type="checkbox"/>
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>200</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"/>	
Horiba U-52 Water Quality Meter Used? 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)	Temp (°C)	pH	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
<u>14:30</u>	<u>15.38</u>	<u>7.46</u>	<u>7.89</u>	<u>50</u>	<u>0.365</u>	<u>29.8</u>	<u>1.80</u>	<u>0.231</u>
<u>14:35</u>	<u>15.41</u>	<u>7.32</u>	<u>6.79</u>	<u>102</u>	<u>0.331</u>	<u>13.2</u>	<u>0.09</u>	<u>0.216</u>
<u>14:40</u>	<u>15.43</u>	<u>7.47</u>	<u>6.57</u>	<u>161</u>	<u>0.445</u>	<u>4.8</u>	<u>0.00</u>	<u>0.292</u>
<u>14:45</u>	<u>15.43</u>	<u>7.66</u>	<u>6.55</u>	<u>191</u>	<u>0.481</u>	<u>3.9</u>	<u>0.00</u>	<u>0.313</u>
<u>14:50</u>	<u>15.43</u>	<u>7.90</u>	<u>6.53</u>	<u>215</u>	<u>0.509</u>	<u>3.9</u>	<u>0.00</u>	<u>0.326</u>
<u>14:55</u>	<u>15.43</u>	<u>7.69</u>	<u>6.52</u>	<u>225</u>	<u>0.526</u>	<u>5.1</u>	<u>0.00</u>	<u>0.337</u>
<u>15:00</u>	<u>18.43</u>	<u>7.63</u>	<u>6.52</u>	<u>237</u>	<u>0.537</u>	<u>4.5</u>	<u>0.00</u>	<u>0.341</u>

Sampling Information:			
EPA SW-846 Method 8270	SVOC PAH's	2 - 1 liter ambers	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
EPA SW-846 Method 8260	VOC's BTEX	3 - 40 ml vials	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
EPA Method 335.4	Cyanide	1 - 250 ml plastic	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
EPA Method 200.7	Metals	1 - 250 ml plastic	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Sample ID: LTMW-S08-0318	Duplicate? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Shipped: Pace Courier Pickup	<input checked="" type="checkbox"/>
Sample Time: <u>15:00</u>	MS/MSD? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Drop-off Albany Service Center	<input type="checkbox"/>
Comments/Notes:		Laboratory: Pace Analytical Greensburg, PA	

Sampling Personnel: PD
Job Number: 06-03000
Well Id. LTMW-S09

Date: 3/21/18
Weather: 22° - overcast
Time In: 0900 Time Out: 0955

Well Information		TOC	Other
Depth to Water:	(feet)	<u>9.50</u>	
Depth to Bottom:	(feet)	<u>16.92</u>	
Depth to Product:	(feet)	<u>NP</u>	
Length of Water Column:	(feet)	<u>7.42</u>	
Volume of Water in Well:	(gal)	<u>1.189</u>	
Three Well Volumes:	(gal)	<u>3.569</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"/>
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>180</u>	
Duration of Pumping:	(min)	<u>30</u>	
Total Volume Removed:	(gal)	<u>~1.5</u>	Did well go dry? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Horiba U-52 Water Quality Meter Used?		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)	Temp (°C)	pH	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
<u>0905</u>	<u>9.51</u>	<u>6.40</u>	<u>6.68</u>	<u>105</u>	<u>0.585</u>	<u>12.9</u>	<u>15.78</u>	<u>0.375</u>
<u>0910</u>	<u>9.50</u>	<u>6.74</u>	<u>5.93</u>	<u>135</u>	<u>0.594</u>	<u>10</u>	<u>14.36</u>	<u>0.380</u>
<u>0915</u>	<u>9.50</u>	<u>6.90</u>	<u>5.92</u>	<u>134</u>	<u>0.598</u>	<u>11.8</u>	<u>13.06</u>	<u>0.384</u>
<u>0920</u>	<u>9.50</u>	<u>7.03</u>	<u>5.86</u>	<u>135</u>	<u>0.602</u>	<u>10</u>	<u>12.20</u>	<u>0.385</u>
<u>0925</u>	<u>9.50</u>	<u>6.96</u>	<u>5.91</u>	<u>131</u>	<u>0.607</u>	<u>5.5</u>	<u>7.06</u>	<u>0.388</u>
<u>0930</u>	<u>9.50</u>	<u>7.01</u>	<u>5.93</u>	<u>130</u>	<u>0.611</u>	<u>3.7</u>	<u>6.65</u>	<u>0.391</u>
<u>0935</u>	<u>9.50</u>	<u>6.97</u>	<u>5.95</u>	<u>132</u>	<u>0.609</u>	<u>4.0</u>	<u>6.78</u>	<u>0.398</u>

Sampling Information:			
EPA SW-846 Method 8270	SVOC PAH's	2 - 1 liter ambers	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
EPA SW-846 Method 8260	VOC's BTEX	3 - 40 ml vials	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
EPA Method 335.4	Cyanide	1 - 250 ml plastic	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
EPA Method 200.7	Metals	1 - 250 ml plastic	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Field Duplicate 0318			
Sample ID: <u>LTMW-S09-0318</u>	Duplicate? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Shipped: Pace Courier Pickup <input checked="" type="checkbox"/>	
Sample Time: <u>0940</u>	MS/MSD? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Drop-off Albany Service Center <input type="checkbox"/>	
Comments/Notes: <u>NONE</u>		Laboratory: Pace Analytical Greensburg, PA	

National Grid
Kingsley Avenue, Rome, New York

Sampling Personnel: FE
Job Number: 06-03000
Well Id. **LTMW-S10**

Date: 3/2/18
Weather: Sunny 42°
Time In: 15:10 Time Out:

Well Information

		TOC	Other
Depth to Water:	(feet)	10.15	
Depth to Bottom:	(feet)	17.18	
Depth to Product:	(feet)	—	
Length of Water Column:	(feet)	7.03	
Volume of Water in Well:	(gal)	1.12	
Three Well Volumes:	(gal)	3.37	

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 ☐
Tubing/Bailer Material: Teflon ☐ Stainless St. ☒ Polyethylene ☒
Sampling Method: Bailer ☐ Peristaltic ☒ Grundfos Pump ☐
Average Pumping Rate: (ml/min) 200
Duration of Pumping: (min) 30
Total Volume Removed: (gal) 2 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)	Temp (°C)	pH	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS (g/L)
15:20	10.40	8.14	6.75	81	0.987	20.3	0.00	0.629
15:25	10.45	8.22	6.74	70	0.987	13.8	0.00	0.632
15:30	10.52	8.36	6.63	51	0.998	45.1	0.00	0.638
15:35	10.55	8.16	6.54	35	1.01	38.0	0.00	0.647
15:40	10.58	8.14	6.52	24	1.01	21.8	0.00	0.649
15:45		8.12	6.53	23	1.01	21.3	0.00	0.648
15:50		8.14	6.55	19	1.01	18.3	0.00	0.647

Sampling Information:

EPA SW-846 Method 8270 SVOC PAH's 2 - 1 liter ambers Yes ☒ No ☐
EPA SW-846 Method 8260 VOC's BTEX 3 - 40 ml vials Yes ☒ No ☐
EPA Method 335.4 Cyanide 1 - 250 ml plastic Yes ☒ No ☐
EPA Method 200.7 Metals 1 - 250 ml plastic Yes ☒ No ☐
LTMW-S10-MS-0318 LTMW-S10-MSD-0318
Sample ID: **LTMW-S10-0318** Duplicate? Yes ☐ No ☒
Sample Time: 15:50 MS/MSD? Yes ☒ No ☐
Shipped: Pace Courier Pickup ☒
Drop-off Albany Service Center ☐

Comments/Notes:

Laboratory: Pace Analytical
Greensburg, PA



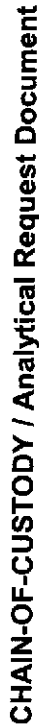
CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information: Company: GES - Syracuse Address: 5 Technology Place, Suite 4 East Syracuse, New York 13057 Email To: dshay@gesonline.com Phone: 800.220.3069 Fax: None Requested Due Date/TAT: Standard		Section B Required Project Information: Report To: Devin Shay (GES) dshay@gesonline.com Report To: Tim Beaumont (GES) tbeaumont@gesonline.com Purchase Order No.: Project Name: National Grid - Rome Kingsley Ave. Site, Rome, NY Project Number: 06-03000-134400-221-1106		Section C Invoice Information: Attention: Accounts Payable via email at ges-invoices@gesonline.com Company Name: Groundwater & Environmental Services, Inc. Address: 5 Technology Place, Suite 4, East Syracuse, NY 13057 Pace Quote Reference: Pace Project Manager: Rachael Christner Pace Profile #:	
Section D Required Client Information SAMPLE ID One Character per box. (A-Z, 0-9, /, -) IDs MUST BE UNIQUE		Section E Required Project Information Matrix Code DA WA WW F P R S N A T V S CODE DA WA WW F P R S N A T V S		Section F Required Project Information Matrix Code DA WA WW F P R S N A T V S CODE DA WA WW F P R S N A T V S	

ITEM #	Section D Required Client Information		Total Blank Counts		COLLECTED												# OF CONTAINERS	Preservatives							Requested Analysis:	Pace Project Number Lab ID	
	SAMPLE ID One Character per box. (A-Z, 0-9 / .)	Matrix	CODE	MATRIX CODE	SAMPLE TYPE	DATE		TIME	DATE		TIME	SAMPLE TEMP AT COLLECTION	COMPOSITE START	G+GRAB	C=COMP	H ₂ SO ₄		HNO ₃	HCl	NaOH	Na ₂ CO ₃	Methanol	Other				
						DATE	TIME		DATE	TIME																	
1	LTMW-D01-0318	WT	G				3/21/18	12:30								7	2	1	3	1					3 2 1 1		
2	LTMW-S01-0318	WT	G				3/21/18	11:40								7	2	1	3	1					3 2 1 1		
3	LTMW-D02-0318	WT	G					10:10								7	2	1	3	1					3 2 1 1		
4	LTMW-S02-0318	WT	G					09:50								7	2	1	3	1					3 2 1 1		
5	LTMW-D03-0318	WT	G					14:05								7	2	1	3	1					3 2 1 1		
6	LTMW-S03-0318	WT	G					13:20								7	2	1	3	1					3 2 1 1		
7	LTMW-D04-0318	WT	G					12:30								7	2	1	3	1					3 2 1 1		
8	LTMW-S04-0318	WT	G					11:10								7	2	1	3	1					3 2 1 1		
9	LTMW-D05-0318	WT	G					15:45								7	2	1	3	1					3 2 1 1		
10	LTMW-S05-0318	WT	G					14:55								7	2	1	3	1					3 2 1 1		
11	LTMW-D06-0318	WT	G					13:25								7	2	1	3	1					3 2 1 1		
12	LTMW-S06-0318	WT	G					14:10								7	2	1	3	1					3 2 1 1		

Additional Comments:		SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER SIGNATURE of SAMPLER DATE: 3/21/18		ACCEPTED BY AFFILIATION DATE: 3/21/18 TIME: 17:30		SAMPLE CONDITIONS Temp in °C Received on Ice Custody Sealed Cooler Samples Intact	
SAMPLES WILL ARRIVE IN # COOLERS.		Please send reports to: dshay@gesonline.com, tbeaumont@gesonline.com SyracuseLabs@gesonline.com, ges@gesonline.com					
SPECIFIC EDD NAME: NGRome-labnumber.28351.EQEDD.zip							



The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

[illegible]



Appendix D – Data Usability Summary Report and Analytical Data



Groundwater & Environmental Services, Inc.

708 North Main Street, Suite 201
Blacksburg, VA 24060

T. 800.662.5067

April 30, 2018

Devin Shay
Groundwater & Environmental Services, Syracuse
5 Technology Place, Suite 4
East Syracuse, NY 13057

RE: Data Usability Summary Report for National Grid- Rome Kingsley Avenue Site Data Packages Pace Analytical Job Nos. 30247678, 30247135

Groundwater & Environmental Services, Inc. (GES) reviewed two data packages (Laboratory Project Number 30247678, 30247135) from Pace Analytical Services, Inc., for the analysis of an effluent sample and trip blank collected March 27, 2018 as well as groundwater samples collected on March 21, 2018 from monitoring wells located at the National Grid: Rome Kingsley Avenue Site. Sixteen aqueous samples and a field duplicate are analyzed for BTEX, PAHs, arsenic, lead, zinc, and total cyanide. The effluent system sample was processed for TCL volatiles, nine metals, mercury and total cyanide. Methodologies utilized are those of the USEPA 200.7, the USEPA SW846 methods 7470/8260B/8270C/9012, with additional QC requirements of the NYSDEC ASP.

The data are reported as part of a complete full deliverable type B data validation. This usability report is generated from review of the following:

- Laboratory Narrative Discussion
- Custody Documentation
- Holding Times
- Surrogate and Internal Standard Recoveries
- Matrix Spike Recoveries/Duplicate (MS/MSD) Correlations
- Field Duplicate Correlations
- Laboratory Control Sample (LCS)
- Preparation/Calibration Blanks
- Calibration/Low Level Standard Responses
- Instrumental Tunes
- Instrument MDLs
- Sample Quantitation and Identification

The items listed above which show deficiencies are discussed within the text of this narrative.

All of the other items are determined to be acceptable for the DUSR level review.

Table 1 – Data Qualifications

Sample ID	Qualifier	Analyte	Reason for qualification
Effluent System 0318	J-	Acenaphthene, Fluorene, Phenanthrene	MS/MSD recoveries low, RPD exceeds specification
LTMW-S01-0318, LTMW-D02-0318, LTMW-S02-0318, LTMW-D03-0318, LTMW-S03-0318, LTMW-D04-0318, LTMW-S04-0318, LTMW-S05-0318, LTMW-S06-0318, LTMW-S07-0318, LTMW-S08-0318, LTMW-S10-0318	J-/UJ-	acenaphthene, acenaphthylene, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, fluoranthene, fluorene, indeno(1,2,3-cd)pyrene, 2-methylnaphthalene, naphthalene, phenanthrene, pyrene	Low surrogate recoveries

In summary, sample results are usable as reported, with possible low bias in the PAH analyses exemplified by low surrogate recoveries, and the result for pH due to the short hold time of 15 minutes. Qualifications are detailed in Table 1.

The laboratory case narratives and sample identification summary forms are attached to this text, and should be reviewed in conjunction with this report.

BTEX and TCL Volatiles by EPA 8260C/NYSDEC ASP

Sample holding times for groundwater and effluent samples and instrumental tune fragmentations are within acceptance ranges. Surrogate and internal standard recoveries are within required limits. Calibrations standards show acceptable responses within analytical protocol and validation action limits. The blind field duplicate correlations of LTMW-S09-0318 fall within guidance limits.

PAHs by EPA8270D/NYSDEC ASP

Holding times are met. Instrumental tune fragmentations are within acceptance ranges. Surrogate recoveries are within analytical and validation guidelines, with the exception of terphenyl-d14 in a majority of the samples. Qualifications are noted in **Table 1**. Blanks show no contamination. Calibration standards, both initial and continuing, show acceptable responses within analytical method protocols and validation guidelines. The laboratory control spike recoveries and precision indicate the method is within laboratory control. The MS/MSD pair for dibenz(a,h)anthracene prepared from LTMW-S10-0318 reported a slightly high RPD, 1% over criteria, which does not negatively affect the data. The MS/MSD pair associated with the effluent had low recoveries in three analytes, Acenaphthene, Fluorene, and Phenanthrene. These compounds are qualified as estimates with a possible low bias. See **Table 1**. The blind field duplicate correlations of LTMW-S09-0318 had no detections, so no precision correlations were calculated.

No other qualifications are necessary.

Arsenic, Lead, and Zinc, and Nine Metals by EPA 200.7/EPA 245.3/NYSDEC ASP

The matrix spikes show acceptable accuracy and precision. The blind field duplicate correlations of LTMW-S09-0318 had no detections, so no precision correlations were calculated. Instrument performance is compliant, and blanks show no contamination above the reporting limit.

Wet Chemistry-Total Cyanide by 9012B and pH

Review was conducted for method compliance, holding times, transcription, calculations, standard and blank acceptability, accuracy and precision, etc., as applicable to each procedure. All are acceptable for the validated samples. Calibration standard responses are compliant. Blanks show no detections above the reporting limits.

The pH for Effluent 0318 is qualified as estimated due to outlying holding time, as noted in the laboratory case narrative.

A matrix spike (MS) analysis was performed on the following sample(s): LTMW-D01-0318 and LTMW-S10-0318. The recoveries were within acceptance criteria and cyanide is qualified as estimated for the sample. All other matrix spikes and/or laboratory duplicates of total cyanide show acceptable recoveries and/or correlations.

1 Data Package Completeness

Complete NYSDEC Category B deliverables were included in the laboratory data package, all information required for validation of the data is present.

Please do not hesitate to contact me if you have comments or questions regarding this report.

Sincerely,



Bonnie Janowiak, Ph.D.
Project Chemist

SAMPLE SUMMARY

Project: National Grid - Rome Kingsley

Pace Project No.: 30247135

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30247135001	LTMW-D01-0318	Water	03/21/18 12:30	03/23/18 10:20
30247135002	LTMW-S01-0318	Water	03/21/18 11:40	03/23/18 10:20
30247135003	LTMW-D02-0318	Water	03/21/18 10:40	03/23/18 10:20
30247135004	LTMW-S02-0318	Water	03/21/18 09:50	03/23/18 10:20
30247135005	LTMW-D03-0318	Water	03/21/18 14:05	03/23/18 10:20
30247135006	LTMW-S03-0318	Water	03/21/18 13:20	03/23/18 10:20
30247135007	LTMW-D04-0318	Water	03/21/18 12:30	03/23/18 10:20
30247135008	LTMW-S04-0318	Water	03/21/18 11:40	03/23/18 10:20
30247135009	LTMW-D05-0318	Water	03/21/18 15:45	03/23/18 10:20
30247135010	LTMW-S05-0318	Water	03/21/18 14:55	03/23/18 10:20
30247135011	LTMW-D06-0318	Water	03/21/18 13:25	03/23/18 10:20
30247135012	LTMW-S06-0318	Water	03/21/18 14:10	03/23/18 10:20
30247135013	LTMW-S07-0318	Water	03/21/18 10:40	03/23/18 10:20
30247135014	LTMW-S08-0318	Water	03/21/18 15:00	03/23/18 10:20
30247135015	LTMW-S09-0318	Water	03/21/18 09:40	03/23/18 10:20
30247135016	LTMW-S10-0318	Water	03/21/18 15:50	03/23/18 10:20
30247135017	LTMW-S10-MS-0318	Water	03/21/18 15:50	03/23/18 10:20
30247135018	LTMW-S10-MSD-0318	Water	03/21/18 15:50	03/23/18 10:20
30247135019	Field Duplicate-0318	Water	03/21/18 00:01	03/23/18 10:20
30247135020	Trip Blank	Water	03/21/18 00:01	03/23/18 10:20

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: National Grid - Rome Kingsley

Pace Project No.: 30247135

Method: EPA 200.7

Description: 200.7 Metals, Total

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

Date: April 04, 2018

General Information:

19 samples were analyzed for EPA 200.7. 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 200.7 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

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.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: National Grid - Rome Kingsley

Pace Project No.: 30247135

Method: EPA 8270D by SIM

Description: 8270D MSSV PAH by SIM

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

Date: April 04, 2018

General Information:

19 samples were analyzed for EPA 8270D by SIM. 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 3510C with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

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

QC Batch: 292699

SR: Surrogate recovery was below laboratory control limits. Results may be biased low.

- LTMW-D02-0318 (Lab ID: 30247135003)
 - Terphenyl-d14 (S)
- LTMW-D03-0318 (Lab ID: 30247135005)
 - Terphenyl-d14 (S)
- LTMW-D04-0318 (Lab ID: 30247135007)
 - Terphenyl-d14 (S)
- LTMW-S01-0318 (Lab ID: 30247135002)
 - Terphenyl-d14 (S)
- LTMW-S02-0318 (Lab ID: 30247135004)
 - Terphenyl-d14 (S)
- LTMW-S03-0318 (Lab ID: 30247135006)
 - Terphenyl-d14 (S)
- LTMW-S04-0318 (Lab ID: 30247135008)
 - Terphenyl-d14 (S)
- LTMW-S05-0318 (Lab ID: 30247135010)
 - Terphenyl-d14 (S)
- LTMW-S06-0318 (Lab ID: 30247135012)
 - Terphenyl-d14 (S)
- LTMW-S07-0318 (Lab ID: 30247135013)
 - Terphenyl-d14 (S)
- LTMW-S08-0318 (Lab ID: 30247135014)

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: National Grid - Rome Kingsley

Pace Project No.: 30247135

Method: EPA 8270D by SIM

Description: 8270D MSSV PAH by SIM

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

Date: April 04, 2018

QC Batch: 292699

SR: Surrogate recovery was below laboratory control limits. Results may be biased low.

- Terphenyl-d14 (S)
- LTMW-S10-0318 (Lab ID: 30247135016)
- Terphenyl-d14 (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: 292699

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30247135016

R1: RPD value was outside control limits.

- MSD (Lab ID: 1432512)
- Dibenzo(a,h)anthracene

Additional Comments:

Analyte Comments:

QC Batch: 292699

1c: The sample was reextracted beyond the Method recommended holding time. Surrogate recoveries were within limits in the reextracted sample. Target analyte results in the reextract are similar to those in the original in hold sample extract. Results are reported from the original in hold sample extract analysis.

- LTMW-D02-0318 (Lab ID: 30247135003)
 - Terphenyl-d14 (S)
- LTMW-D03-0318 (Lab ID: 30247135005)
 - Terphenyl-d14 (S)
- LTMW-D04-0318 (Lab ID: 30247135007)
 - Terphenyl-d14 (S)
- LTMW-S01-0318 (Lab ID: 30247135002)
 - Terphenyl-d14 (S)
- LTMW-S02-0318 (Lab ID: 30247135004)
 - Terphenyl-d14 (S)
- LTMW-S03-0318 (Lab ID: 30247135006)
 - Terphenyl-d14 (S)
- LTMW-S04-0318 (Lab ID: 30247135008)
 - Terphenyl-d14 (S)
- LTMW-S05-0318 (Lab ID: 30247135010)
 - Terphenyl-d14 (S)

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: National Grid - Rome Kingsley

Pace Project No.: 30247135

Method: EPA 8270D by SIM

Description: 8270D MSSV PAH by SIM

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

Date: April 04, 2018

Analyte Comments:

QC Batch: 292699

1c: The sample was reextracted beyond the Method recommended holding time. Surrogate recoveries were within limits in the reextracted sample. Target analyte results in the reextract are similar to those in the original in hold sample extract. Results are reported from the original in hold sample extract analysis.

- LTMW-S06-0318 (Lab ID: 30247135012)
 - Terphenyl-d14 (S)
- LTMW-S07-0318 (Lab ID: 30247135013)
 - Terphenyl-d14 (S)
- LTMW-S08-0318 (Lab ID: 30247135014)
 - Terphenyl-d14 (S)
- LTMW-S10-0318 (Lab ID: 30247135016)
 - Terphenyl-d14 (S)

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: National Grid - Rome Kingsley

Pace Project No.: 30247135

Method: EPA 8260C

Description: 8260C MSV

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

Date: April 04, 2018

General Information:

20 samples were analyzed for EPA 8260C. 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.

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

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

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.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: National Grid - Rome Kingsley

Pace Project No.: 30247135

Method: EPA 335.4

Description: 335.4 Cyanide, Total

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

Date: April 04, 2018

General Information:

19 samples were analyzed for EPA 335.4. 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 335.4 with any exceptions noted below.

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.

Additional Comments:

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: National Grid - Rome Kingsley

Pace Project No.: 30247678

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30247678001	Effluent System 0318	Water	03/27/18 15:30	03/29/18 10:15
30247678002	Trip Blank	Water	03/27/18 00:01	03/29/18 10:15

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PROJECT NARRATIVE

Project: National Grid - Rome Kingsley

Pace Project No.: 30247678

Method: EPA 200.7

Description: 200.7 Metals, Total

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

Date: April 06, 2018

General Information:

1 sample was analyzed for EPA 200.7. 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 200.7 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

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.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: National Grid - Rome Kingsley

Pace Project No.: 30247678

Method: EPA 245.1

Description: 245.1 Mercury

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

Date: April 06, 2018

General Information:

1 sample was analyzed for EPA 245.1. 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 245.1 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

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.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: National Grid - Rome Kingsley

Pace Project No.: 30247678

Method: EPA 8270D by SIM

Description: 8270D MSSV PAH by SIM

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

Date: April 06, 2018

General Information:

1 sample was analyzed for EPA 8270D by SIM. 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 3510C with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

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

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: 293377

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30247678001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1436126)
 - Acenaphthene
 - Fluorene
 - Phenanthrene

ML: Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.

- MS (Lab ID: 1436126)
 - Fluorene
 - Phenanthrene

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PROJECT NARRATIVE

Project: National Grid - Rome Kingsley

Pace Project No.: 30247678

Method: EPA 8270D by SIM

Description: 8270D MSSV PAH by SIM

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

Date: April 06, 2018

QC Batch: 293377

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30247678001

R1: RPD value was outside control limits.

- MSD (Lab ID: 1436127)
 - Acenaphthene
 - Acenaphthylene
 - Anthracene
 - Fluorene

Additional Comments:

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PROJECT NARRATIVE

Project: National Grid - Rome Kingsley

Pace Project No.: 30247678

Method: EPA 8260C

Description: 8260C MSV

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

Date: April 06, 2018

General Information:

2 samples were analyzed for EPA 8260C. 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.

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

QC Batch: 293412

CL: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.

- BLANK (Lab ID: 1436222)
 - 2-Butanone (MEK)
 - 2-Hexanone
 - 4-Methyl-2-pentanone (MIBK)
- Effluent System 0318 (Lab ID: 30247678001)
 - 2-Butanone (MEK)
 - 2-Hexanone
 - 4-Methyl-2-pentanone (MIBK)
- LCS (Lab ID: 1436223)
 - 2-Butanone (MEK)
 - 2-Hexanone
 - 4-Methyl-2-pentanone (MIBK)
- MS (Lab ID: 1436373)
 - 2-Butanone (MEK)
 - 2-Hexanone
 - 4-Methyl-2-pentanone (MIBK)
- MSD (Lab ID: 1436374)
 - 2-Butanone (MEK)
 - 2-Hexanone
 - 4-Methyl-2-pentanone (MIBK)
- Trip Blank (Lab ID: 30247678002)
 - 2-Butanone (MEK)
 - 2-Hexanone
 - 4-Methyl-2-pentanone (MIBK)

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

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

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PROJECT NARRATIVE

Project: National Grid - Rome Kingsley

Pace Project No.: 30247678

Method: EPA 8260C

Description: 8260C MSV

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

Date: April 06, 2018

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: 293412

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30247416001

ML: Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.

- MS (Lab ID: 1436373)
 - 1,1,1-Trichloroethane

Additional Comments:

Analyte Comments:

QC Batch: 293412

1c: The analyte did not meet the method recommended minimum RF.

- BLANK (Lab ID: 1436222)
 - Acetone
 - Bromomethane
- Effluent System 0318 (Lab ID: 30247678001)
 - Acetone
 - Bromomethane
- LCS (Lab ID: 1436223)
 - Acetone
 - Bromomethane
- MS (Lab ID: 1436373)
 - Acetone
 - Bromomethane
- MSD (Lab ID: 1436374)
 - Acetone
 - Bromomethane
- Trip Blank (Lab ID: 30247678002)
 - Acetone
 - Bromomethane

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PROJECT NARRATIVE

Project: National Grid - Rome Kingsley

Pace Project No.: 30247678

Method: SM4500H+B-00

Description: 4500H+ pH, Electrometric

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

Date: April 06, 2018

General Information:

1 sample was analyzed for SM4500H+B-00. 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.

H3: Sample was received or analysis requested beyond the recognized method holding time.

- Effluent System 0318 (Lab ID: 30247678001)

H6: Analysis initiated outside of the 15 minute EPA required holding time.

- Effluent System 0318 (Lab ID: 30247678001)

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.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: National Grid - Rome Kingsley

Pace Project No.: 30247678

Method: EPA 335.4

Description: 335.4 Cyanide, Total

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

Date: April 06, 2018

General Information:

1 sample was analyzed for EPA 335.4. 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 335.4 with any exceptions noted below.

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.

Additional Comments:

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

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