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

# national**grid**

October 30, 2018

Mr. Justin Starr, PG New York State Department of Environmental Conservation Division of Environmental Remediation Remedial Bureau C 625 Broadway Albany, NY 12233-70134

## <u>Re:</u> National Grid Kingsley Avenue Site Rome, New York 2018 3rd Quarter OM&M Report

Dear Mr. Starr:

Enclosed for your review is the 2018 3<sup>rd</sup> 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 nonaqueous 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.

Mr. Justin Starr, PG October 30, 2018 Page 2 of 2

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

Very truly yours,

for SPS 12

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

Enclosures

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

National Grid

# 2018 3<sup>rd</sup> Quarter Operations, Maintenance, and Monitoring Report



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

October 2018

Version 1





# 2018 3<sup>rd</sup> Quarter OM&M Report

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

Prepared for: National Grid 300 Erie Boulevard West, C-1 Syracuse, NY 13202

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GES Project: 0603000.134400.221

Date: October 30, 2018

Devin T. Shay, PG Program Manager / Principal Hydrogeologist



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- Appendix C Well Sampling Field Data
- Appendix D Data Usability Summary Report and Analytical Data



# Acronyms

AWQS	Ambient Water Quality Standards	OM&M	Operations, 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,	POTW	Publically Owned Treatment Works
GLO	Inc.	QA/QC	Quality Assurance / Quality Control
gpm	Gallons per Minute	ROD	Record of Decision
IRM	Interim Remedial Measures	SMP	Site Management Plan
LNAPL	Light Non-Aqueous Phase Liquid	USEPA	United States Environmental Protection
MGP	Manufactured Gas Plant		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 3<sup>rd</sup> Quarter Operations, Maintenance, and Monitoring Report (OM&M) on behalf of National Grid. This report compiles the OM&M activities completed in the 3<sup>rd</sup> 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 July, August, and September 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 3<sup>rd</sup> quarter site inspection on September 14, 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 September 13, 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 3<sup>rd</sup> quarter groundwater monitoring event was conducted on September 13, 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, and fluorene 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, and LTMW-S07.

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 non-compliances in the matrix spike including acenaphthene recovery and the RPD out of specification for acetone... 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 September 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.

As part of the NAPL monitoring/collection event, a total of 4.5 gallons of DNAPL were collected (2.5 gallons from MW-OU2-1 and 2.0 gallons from MW-OU2-4) during this quarter.

Since the start of the NAPL monitoring/collection program, a total of 496 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 September 13, 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 laboratory result for pH is always considered estimated as the EPA recommended short hold time of 15 minutes can only be met by in-field measurements. Qualifications are detailed in Table 1 of Appendix D, which presents the Data Usability Summary Report (DUSR) including the validated laboratory data. 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 3<sup>rd</sup> quarter, approximately 3,229,042 gallons (average flow ~ 23.9 gpm) were discharged. Since the groundwater extraction system was installed, approximately 136 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 <sup>st</sup> Quarter	3,520,189
2018 2 <sup>nd</sup> Quarter	3,281,784
2018 3 <sup>rd</sup> Quarter	3,229,042
TOTAL	136,187,655

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

Vegetation management activities were conducted during the third quarter 2018.



# 3 Conclusions, Recommendations, and Certifications

# 3.1 Conclusions

Based on data collected from the 2018 3<sup>rd</sup> quarter OM&M activities, the following conclusions were made:

- The overall condition of the Site is good. Vegetation removal including routine mowing and weed spraying was conducted as needed during 3<sup>rd</sup> 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, and fluorene 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-S03, LTMW-S04, 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 (4.5 gallons) was removed from two wells (MW-OU2-1 and MW-OU2-4). 496 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 23.9 gpm, and a quarterly total of 3,229,042 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 136 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

10/29/2018

Date

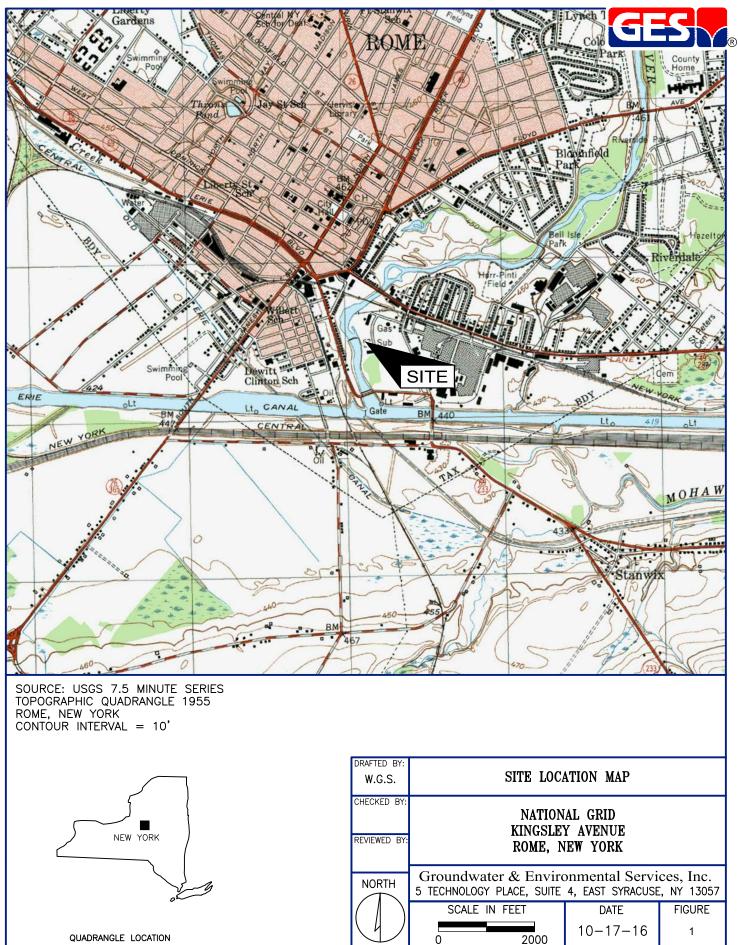
Name: Gerald H. Cresap, P.E. Title: Director of Engineering Company: Groundwater & Environmental Services, Inc.

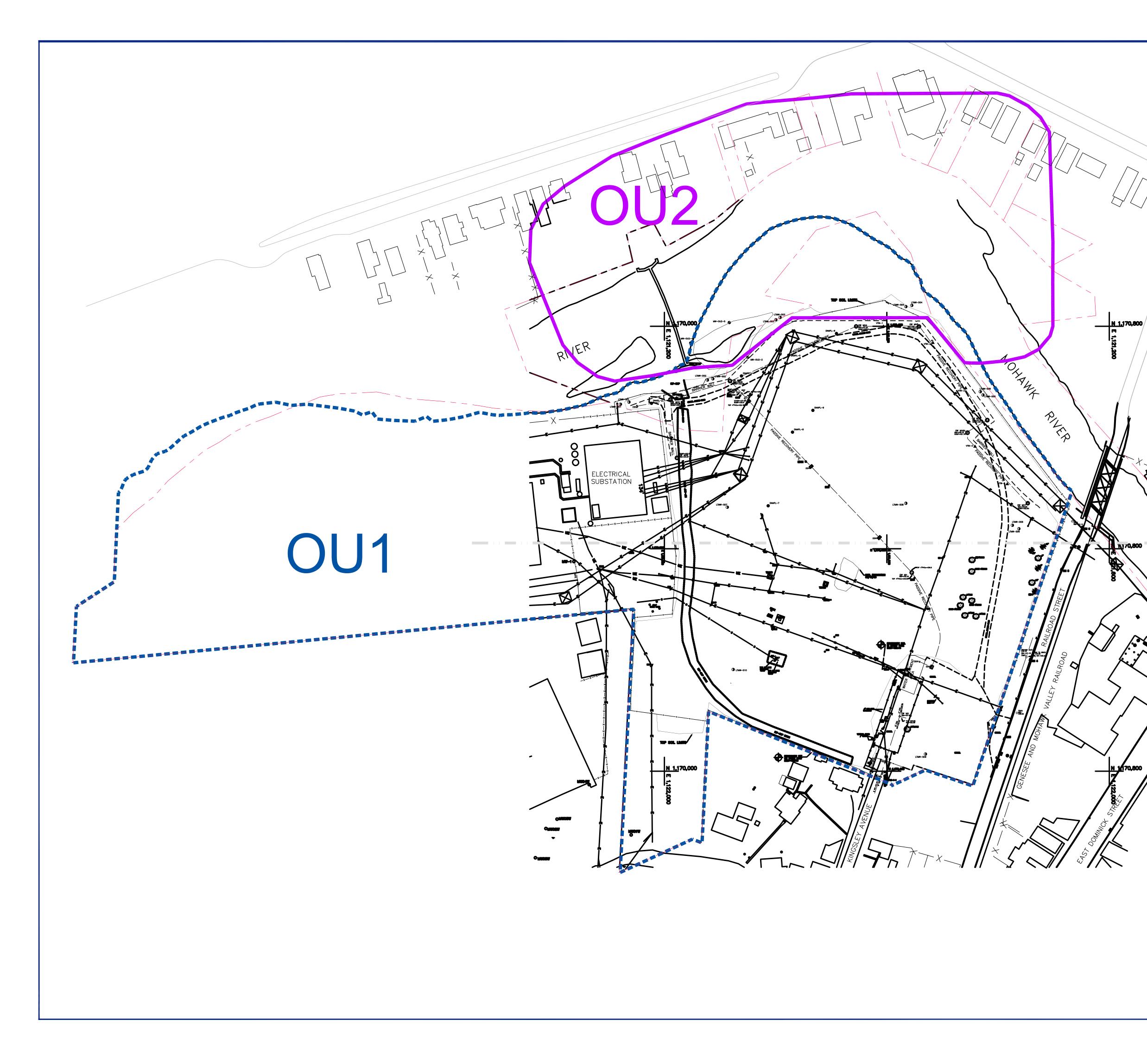


2018 3<sup>rd</sup> Quarter OM&M Report National Grid Rome Former MGP Site 233 Kingsley Avenue, Rome, NY 13440



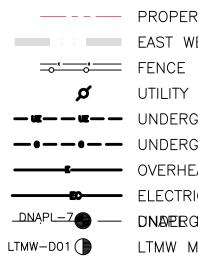






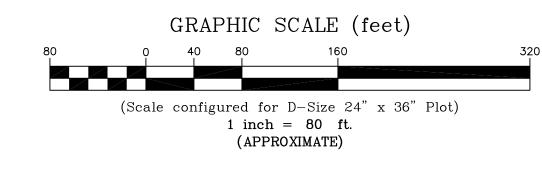




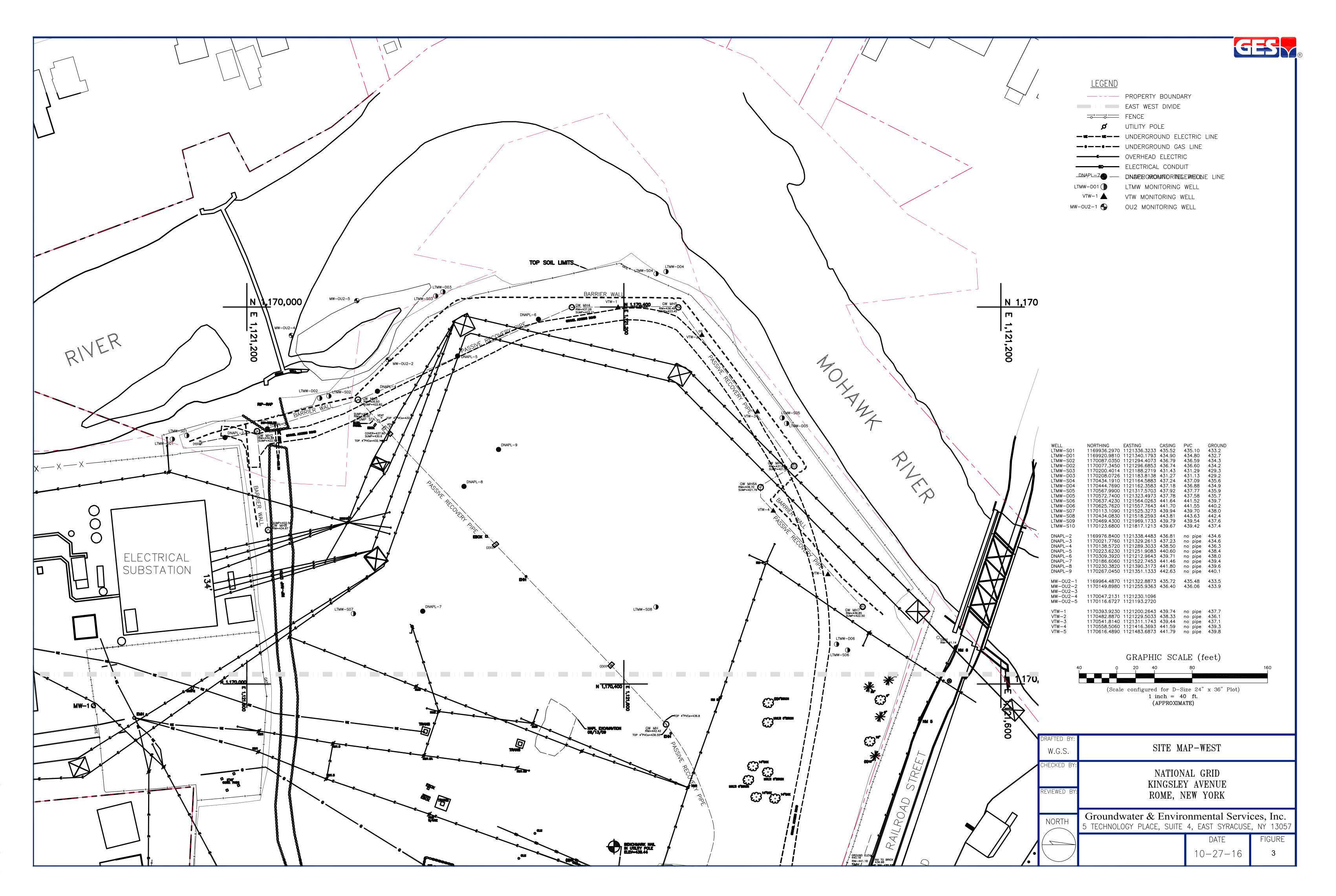


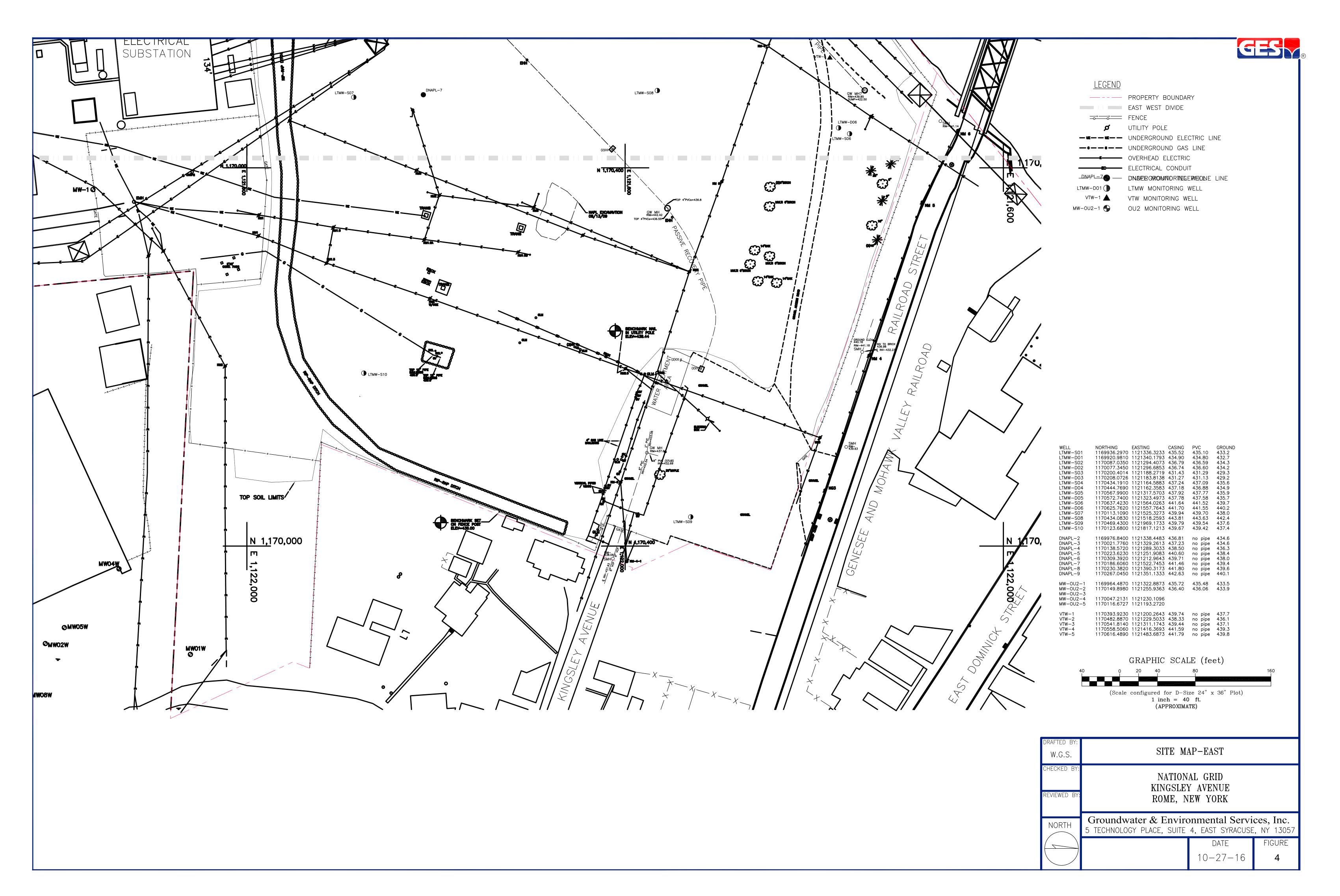
VTW−1 📥

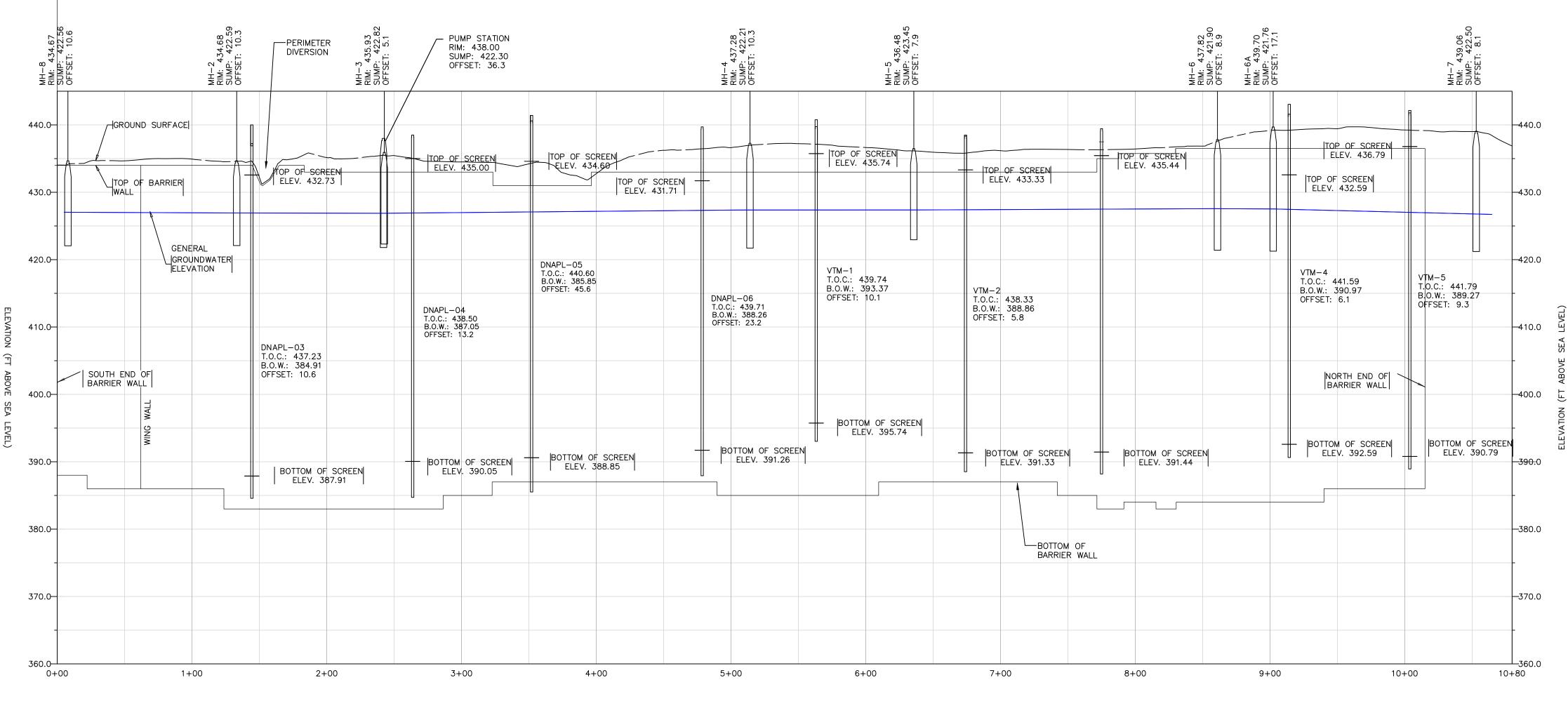
---- PROPERTY BOUNDARY EAST WEST DIVIDE Ø UTILITY POLE ----- UNDERGROUND GAS LINE OVERHEAD ELECTRIC ELECTRICAL CONDUIT LTMW MONITORING WELL VTW MONITORING WELL MW-0U2-1 🌓 OU2 MONITORING WELL



DRAFTED BY: W.G.S.	SITE MA OPERABLE		
CHECKED BY: Reviewed by:	NATIONAL KINGSLEY A ROME, NEW	AVENUE	
NORTH	Groundwater & Environn 300 GATEWAY PARK DRIVE, NOR		,
$( \ )$		DATE	FIGURE
	1	10-17-16	2









LEGEND	
T.O.C.	TOP OF CASING
B.O.W.	BOTTOM OF WELL
	TOP OF WALL
	GROUNDWATER ELEVATI

NOTES:

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

DRAFTED BY: W.G.S.	BARRIER WA	ALL PROFILE							
CHECKED BY: REVIEWED BY:	KINGSLE	ONAL GRID Ley avenue New York							
NORTH	Groundwater & Enviro 300 GATEWAY PARK DRIVE, N		,						
		DATE 10-17-16	FIGURE 5						

GES

ATION (JUNE 2012)

2018 3<sup>-d</sup> Quarter OM&M Report National Grid Rome Former MGP Site 233 Kingsley Avenue, Rome, NY 13440

# **Tables**



#### 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		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		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		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		Quarterly Inspection; Quarterly Static Water Level Measurement; Quarterly Sampling
			433.2			2									Quarterly Inspection; Quarterly Static Water Level
LTMW-D02	1170077.3450	1121296.6853		436.74	436.60	2	PVC	NA	40.29	396.31	30.0	406.60	40.0	396.60	Measurement; Quarterly Sampling Quarterly Inspection; Quarterly Static Water Level
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		Measurement; Quarterly Sampling Quarterly Inspection; Quarterly Static Water Level
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	Measurement; Quarterly Sampling Quarterly Inspection; Quarterly Static Water Level
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	Measurement; Quarterly Sampling Quarterly Inspection; Quarterly Static Water Level
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	Measurement; Quarterly Sampling Quarterly Inspection; Quarterly Static Water Level
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	Measurement; Quarterly Sampling Quarterly Inspection; Quarterly Static Water Level
LTMW-D05	1170572.7400	1121323.4973	435.7	437.78	437.58	2	PVC	NA	46.53	391.05	35.0	402.58	45.0	392.58	Measurement; Quarterly Sampling Quarterly Inspection; Quarterly Static Water Level
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	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 peristatic 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.



## Historical Groundwater Data Operable Unit 2 Wells

Well	MW-	OU2-1	Well	MW-	OU2-2	Well	MW-	OU2-3	Well	MW-	OU2-4	Well	MW-	OU2-5
	TOC =	435.72		TOC =	436.40		TOC =	432.96		TOC =	432.88		TOC =	433.46
Date	DTW	Water El.												
														1
09/13/18	9.58	426.14	09/13/18	10.40	426.00	09/13/18	7.02	425.94	09/13/18	7.06	425.82	09/13/18	7.72	425.74
06/07/18	9.53	426.19	06/07/18	10.25	426.15	06/07/18	7.90	425.06	06/07/18	6.90	425.98	06/07/18	7.56	425.90
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



## Historical Groundwater Data DNAPL Wells

Well	DNA	PL-02	Well	DNA	PL-03	Well	DNA	PL-04	Well	DNA	PL-05
	TOC =	436.81		TOC =	437.23		TOC =	438.50		TOC =	440.60
Date	DTW	Water El.									
											1
09/13/18	9.60	427.21	09/13/18	9.70	427.53	09/13/18	11.00	427.50	09/13/18	13.08	427.52
06/07/18	9.70	427.11	06/07/18	10.00	427.23	06/07/18	11.26	427.24	06/07/18	13.34	427.26
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



## Historical Groundwater Data DNAPL Wells

Well	DNA	PL-06	Well	DNA	PL-07	Well	DNA	PL-08	Well	DNA	PL-09
	TOC =	439.71		TOC =	441.46		TOC =	441.80		TOC =	442.63
Date	DTW	Water El.									
09/13/18	12.15	427.56	09/13/18	13.20	428.26	09/13/18	13.65	428.15	09/13/18	14.50	428.13
06/07/18	12.33	427.38	06/07/18	13.18	428.28	06/07/18	13.61	428.19	06/07/18	14.50	428.13
03/22/18	12.00	427.71	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	427.97	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	427.31	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	427.74	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	428.14	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	428.66	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	427.40	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	427.56	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	428.54	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	427.50	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	427.02	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	428.35	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	428.52	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	427.79	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	427.95	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	427.10	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	427.46	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	428.20	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	427.00	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	428.64	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	427.40	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	427.10	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	426.80	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	427.43	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	427.87	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	427.43	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	429.53	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	427.77	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	428.59	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



## Historical Groundwater Data Trench Wells

Well	VT	M-1	Well	VT	M-2	Well	VT	·M-3	Well	VT	M-4	Well	VT	Г <b>М-</b> 5
	TOC =	439.74		TOC =	438.33		TOC =	439.44		TOC =	441.59		TOC =	441.79
Date	DTW	Water El.												
09/13/18	12.20	427.54	09/13/18	10.65	427.68	09/13/18	11.80	427.64	09/13/18	13.70	427.89	09/13/18	13.85	427.94
06/07/18	12.14	427.60	03/22/18	10.46	427.87	03/22/18	11.62	427.82	03/22/18	13.61	427.98	03/22/18	13.75	428.04
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



## Historical Groundwater Data Operable Unit 1 Wells

Well	LTM	W-D01	LTM\	N-S01	LTM	N-D02	LTM	W-S02	LTM	N-D03	LTM	N-S03	LTM	W-D04	LTM	W-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.														
09/13/18	8.81	426.09	8.67	426.85	10.60	426.14	10.36	426.43	5.48	425.79	4.18	427.25	10.02	427.16	9.35	427.89
06/07/18	8.55	426.35	8.70	426.82	10.35	426.39	10.32	426.47	5.14	426.13	4.11	427.32	9.78	427.40	9.48	427.76
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



## Historical Groundwater Data Operable Unit 1 Wells

Well	LTM	W-D05	LTMW-S05		LTMW-D06		LTM	N-S06	LTM\	N-S07	LTM	N-S08	LTM	W-S09	LTM	W-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.
09/13/18	9.67	428.11	9.68	428.24	12.70	429.00	13.35	428.29	11.55	428.15	15.80	428.01	10.23	429.56	10.75	428.92
06/07/18	9.47	428.31	9.64	428.28	12.42	429.28	13.26	428.38	11.06	428.64	15.70	428.11	10.10	429.69	10.64	429.03
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



#### Groundwater Analytical Data LTMW-D01

Parameter	EPA - Maximum Allowable (uɑ/L)	NYSDEC AWQS (µg/L)	Reporting Level (µg/L)	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	06/07/18	09/13/18
Benzene	5	1	1	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	3,440	3,900
Toluene	1,000	5	1	580	240	300	1,300	430	340	1,100	340	1,090	2,080	1,320	1,470	809	1,230	1,140	992	1,080
Ethylbenzene	700	5	1	ND	7.8	26	84	53	54	82	ND	167	241	145	137	179	177	95.0	119	163
Xylene (total)	10,000	5	2	ND	46	68	160	ND	ND	170	ND	176	254	206	201	157	187	135	155	164
Acenaphthene	N/A	20	4.9	ND	0.59	0.43	0.19	0.10	0.19	0.35	0.18	0.19	0.14							
Acenaphthylene	N/A	NA	4.9	ND	5.0	6.2	0.31	0.11	0.36	7.1	3.1	1.1	1.9							
Anthracene	N/A	NA	4.9	ND																
Benzo(a)anthracene	N/A	0.002	4.9	ND																
Benzo(a)pyrene	N/A	ND	4.9	ND																
Benzo(b)fluoranthene	N/A	0.002	4.9	ND																
Benzo(g,h,i)perylene	0.2	NA	4.9	ND																
Benzo(k)fluoranthene	N/A	0.002	4.9	ND																
Chrysene	N/A	0.002	4.9	ND																
Cyanide	N/A	200	10	ND	ND	ND	ND	ND	ND	13	ND	ND	14	11	ND	ND	ND	10	ND	ND
Dibenzo(a,h)anthracene	N/A	50	4.9	ND																
Fluoranthene	N/A	50	4.9	ND																
Fluorene	N/A	0.002	4.9	ND	0.51	0.35	0.15	ND	ND	0.41	0.17	0.14	0.10							
Indeno(1,2,3-cd)pyrene	N/A	50	4.9	ND																
Naphthalene	N/A	10	4.9	ND	97.1	229	ND	ND	ND	7.2	94.6	0.44	0.83							
Phenanthrene	N/A	50	4.9	ND	107	ND	ND	ND												
Pyrene	N/A	50	4.9	ND																
Arsenic	N/A	25	10	ND	6.9	ND	6.8	9.1												
Lead	N/A	25	5	ND																
Zinc	N/A	2,000	10	ND																

EPA

= Environmental Protection Agency

NYSDEC = New York State Department of Environmental Conservation AWQS

= Ambient Water Quality Standards = Micrograms per Liter

μg/L ND H

J

 Not detected above laboratory reporting limits
 Quantitated using peak height rather than peak area
 Estimated Concentration Value
 values indicate exceedance of the NYSDEC AWQS Bolded



#### Groundwater Analytical Data LTMW-S01

Parameter	EPA - Maximum Allowable (ug/L)	NYSDEC AWQS (µg/L)	Reporting Level (µg/L)	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	06/07/18	09/13/18
Benzene	5	1	1	ND	3,600	ND														
Toluene	1,000	5	1	ND	470	ND														
Ethylbenzene	700	5	1	ND	1.2	ND														
Xylene (total)	10,000	5	2	ND																
Acenaphthene	N/A	20	4.9	56 H J	94	70	68	72	79 E	76	120	125	91.2	69.4	56.4	105	75.1	56.5	68.1	101
Acenaphthylene	N/A	NA	4.9	ND	ND	ND	4.7	ND	ND	ND	ND	4.1	3	3.2	2.5	3.6	2.7	2.2	3.3	4.4
Anthracene	N/A	NA	4.9	ND	0.44	0.38	0.52	0.28	0.40	0.34	0.27	0.37	0.47							
Benzo(a)anthracene	N/A	0.002	4.9	ND																
Benzo(a)pyrene	N/A	ND	4.9	ND																
Benzo(b)fluoranthene	N/A	0.002	4.9	ND																
Benzo(g,h,i)perylene	0.2	NA	4.9	ND																
Benzo(k)fluoranthene	N/A	0.002	4.9	ND																
Chrysene	N/A	0.002	4.9	ND																
Cyanide	N/A	200	10	22	ND	23	16	23	20	20	21	ND	13	55	18	12	15	11	17	19
Dibenzo(a,h)anthracene	N/A	50	4.9	ND																
Fluoranthene	N/A	50	4.9	ND	4.9	4	3.6	2.8	4.8	3.5	2.4	3.7	6.1							
Fluorene	N/A	0.002	4.9	20 H J	28	18	26	25	23	21	28	34.1	27.6	19.9	12.6	28.5	19.2	15.4	18.1	28.3
Indeno(1,2,3-cd)pyrene	N/A	50	4.9	ND																
Naphthalene	N/A	10	4.9	ND	0.2	0.38	0.4	0.15	0.24	0.31	ND	0.23	ND							
Phenanthrene	N/A	50	4.9	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	0.13	0.20
Pyrene	N/A	50	4.9	ND	5.0	4.2	3.6	2.7	4.9	3.7	2.5	3.8	6.6							
Arsenic	N/A	25	10	ND																
Lead	N/A	25	5	ND	ND	ND	8.9	ND												
Zinc	N/A	2,000	10	ND	ND	ND	28	ND												

EPA

= Environmental Protection Agency

NYSDEC = New York State Department of Environmental Conservation

= Ambient Water Quality Standards

AWQS µg/L ND H

= Micrograms per Liter = Not detected above laboratory reporting limits

= Quantitated using peak height rather than peak area
 = Estimated Concentration Value

J Bolded

= values indicate exceedance of the NYSDEC AWQS



#### Groundwater Analytical Data LTMW-D02

Parameter	EPA - Maximum Allowable (ug/L)	NYSDEC AWQS (µg/L)	Reporting Level (µg/L)	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	06/07/18	09/13/18
Benzene	5	1	1	ND																
Toluene	1,000	5	1	ND																
Ethylbenzene	700	5	1	ND																
Xylene (total)	10,000	5	2	ND																
Acenaphthene	N/A	20	4.9	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	1.0	0.91
Acenaphthylene	N/A	NA	4.9	ND	0.8	0.43	0.39	ND	0.48	0.22	0.29	0.31	0.24							
Anthracene	N/A	NA	4.9	ND																
Benzo(a)anthracene	N/A	0.002	4.9	ND																
Benzo(a)pyrene	N/A	ND	4.9	ND																
Benzo(b)fluoranthene	N/A	0.002	4.9	ND																
Benzo(g,h,i)perylene	0.2	NA	4.9	ND																
Benzo(k)fluoranthene	N/A	0.002	4.9	ND																
Chrysene	N/A	0.002	4.9	ND																
Cyanide	N/A	200	10	110	ND	130	110	16	ND	93	85	ND	150	200	ND	160	160	160	150	140
Dibenzo(a,h)anthracene	N/A	50	4.9	ND																
Fluoranthene	N/A	50	4.9	ND																
Fluorene	N/A	0.002	4.9	ND																
Indeno(1,2,3-cd)pyrene	N/A	50	4.9	ND																
Naphthalene	N/A	10	4.9	ND	0.16	ND														
Phenanthrene	N/A	50	4.9	ND																
Pyrene	N/A	50	4.9	ND																
Arsenic	N/A	25	10	ND																
Lead	N/A	25	5	ND	ND	ND	6	ND												
Zinc	N/A	2,000	10	ND	0.021	ND	22	110	11	13	61	ND								

EPA

= Environmental Protection Agency

NYSDEC = New York State Department of Environmental Conservation AWQS

= Ambient Water Quality Standards

μg/L ND H

= Micrograms per Liter = Not detected above laboratory reporting limits

= Quantitated using peak height rather than peak area

J Bolded

= Estimated Concentration Value = values indicate exceedance of the NYSDEC AWQS



#### Groundwater Analytical Data LTMW-S02

Parameter	EPA - Maximum Allowable (uq/L)	NYSDEC AWQS (µg/L)	Reporting Level (µg/L)	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	06/07/18	09/13/18
Benzene	5	1	1	ND																
Toluene	1,000	5	1	ND																
Ethylbenzene	700	5	1	ND																
Xylene (total)	10,000	5	2	ND																
Acenaphthene	N/A	20	4.9	ND	0.13	ND														
Acenaphthylene	N/A	NA	4.9	ND																
Anthracene	N/A	NA	4.9	ND																
Benzo(a)anthracene	N/A	0.002	4.9	ND																
Benzo(a)pyrene	N/A	ND	4.9	ND																
Benzo(b)fluoranthene	N/A	0.002	4.9	ND																
Benzo(g,h,i)perylene	0.2	NA	4.9	ND																
Benzo(k)fluoranthene	N/A	0.002	4.9	ND																
Chrysene	N/A	0.002	4.9	ND																
Cyanide	N/A	200	10	160	ND	81	35	190	120	130	150	ND	130	75	73	110	90	60	59	110
Dibenzo(a,h)anthracene	N/A	50	4.9	ND																
Fluoranthene	N/A	50	4.9	ND																
Fluorene	N/A	0.002	4.9	ND																
Indeno(1,2,3-cd)pyrene	N/A	50	4.9	ND																
Naphthalene	N/A	10	4.9	ND	0.15	ND														
Phenanthrene	N/A	50	4.9	ND																
Pyrene	N/A	50	4.9	ND																
Arsenic	N/A	25	10	ND	ND	ND	ND	ND	ND	15	15	5.1	ND	7.7	ND	ND	7.6	ND	7.1	7.2
Lead	N/A	25	5	ND																
Zinc	N/A	2,000	10	ND																

EPA

= Environmental Protection Agency

NYSDEC = New York State Department of Environmental Conservation

= Ambient Water Quality Standards

AWQS µg/L ND H

= Micrograms per Liter = Not detected above laboratory reporting limits

= Quantitated using peak height rather than peak area

J

Bolded = v

= Estimated Concentration Value = values indicate exceedance of the NYSDEC AWQS



#### Groundwater Analytical Data LTMW-D03

Parameter	EPA - Maximum Allowable (uɑ/L)	NYSDEC AWQS (µg/L)	Reporting Level (µg/L)	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	06/07/18	09/13/18
Benzene	5	1	1	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	6.4	5.4
Toluene	1,000	5	1	ND	4.2	2	3.4	2.2	ND	ND	20	13.9	55	5.9	1.9	1.9	5.4	ND	1.2	2.0
Ethylbenzene	700	5	1	150	190	73	100	87	76	86	58	69.6	23.9	63.7	44	49.0	40.2	26.0	34.1	23.6
Xylene (total)	10,000	5	2	28	41	15	22	16	16	14	42	30.1	25.7	13.5	5.6	7.5	8.4	4.0	4.4	5.5
Acenaphthene	N/A	20	4.9	4.9 H J	14	10	14	16	12	11	ND	411.9	ND	10.7	3.70	10.2	5.9	5.8	8.3	5.7
Acenaphthylene	N/A	NA	4.9	ND	5.9	ND	ND	ND	ND	ND	ND	34.7	10.6	3.1	2.5	2.2	1.5	1.3	2.0	1.6
Anthracene	N/A	NA	4.9	ND	5.7	ND	5.6	5.4	ND	ND	ND	5.2	ND	5.6	0.3	3.7	2.4	2.2	2.8	2.1
Benzo(a)anthracene	N/A	0.002	4.9	ND	0.43	ND	0.42	ND	0.40	0.26	0.30	0.34	0.29							
Benzo(a)pyrene	N/A	ND	4.9	ND																
Benzo(b)fluoranthene	N/A	0.002	4.9	ND																
Benzo(g,h,i)perylene	0.2	NA	4.9	ND																
Benzo(k)fluoranthene	N/A	0.002	4.9	ND																
Chrysene	N/A	0.002	4.9	ND	0.21	ND	0.25	ND	0.24	0.18	0.17	0.19	0.18							
Cyanide	N/A	200	10	ND	44	64	67	78	71	75	93	77	79	84	76	66	78	64	66	62
Dibenzo(a,h)anthracene	N/A	50	4.9	ND																
Fluoranthene	N/A	50	4.9	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	4.7	4.0
Fluorene	N/A	0.002	4.9	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	5.1	3.5
Indeno(1,2,3-cd)pyrene	N/A	50	4.9	ND	9.4	ND														
Naphthalene	N/A	10	4.9	74 H J	150	14	47	29	24	13	81	556	284	32.2	0.15	10.0	16.5	3.9	3.7	6.9
Phenanthrene	N/A	50	4.9	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	18.1	18.1
Pyrene	N/A	50	4.9	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	6.0	5.3
Arsenic	N/A	25	10	ND																
Lead	N/A	25	5	ND																
Zinc	N/A	2,000	10	ND	0.01	ND														

EPA

= Environmental Protection Agency

NYSDEC = New York State Department of Environmental Conservation

= Ambient Water Quality Standards

AWQS μg/L ND H

= Micrograms per Liter = Not detected above laboratory reporting limits

= Quantitated using peak height rather than peak area

J

= Estimated Concentration Value Bolded = values indicate exceedance of the NYSDEC AWQS



#### Groundwater Analytical Data LTMW-S03

Parameter	EPA - Maximum Allowable (uɑ/L)	NYSDEC AWQS (µg/L)	Reporting Level (µg/L)	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	06/07/18	09/13/18
Benzene	5	1	1	ND																
Toluene	1,000	5	1	ND																
Ethylbenzene	700	5	1	ND	1.3	ND														
Xylene (total)	10,000	5	2	ND																
Acenaphthene	N/A	20	4.9	ND																
Acenaphthylene	N/A	NA	4.9	ND																
Anthracene	N/A	NA	4.9	ND																
Benzo(a)anthracene	N/A	0.002	4.9	ND																
Benzo(a)pyrene	N/A	ND	4.9	ND																
Benzo(b)fluoranthene	N/A	0.002	4.9	ND																
Benzo(g,h,i)perylene	0.2	NA	4.9	ND																
Benzo(k)fluoranthene	N/A	0.002	4.9	ND																
Chrysene	N/A	0.002	4.9	ND																
Cyanide	N/A	200	10	72 J	ND	ND	ND	ND	ND	ND	11	ND								
Dibenzo(a,h)anthracene	N/A	50	4.9	ND																
Fluoranthene	N/A	50	4.9	ND																
Fluorene	N/A	0.002	4.9	ND	0.15	ND	ND	ND	ND	ND	ND									
Indeno(1,2,3-cd)pyrene	N/A	50	4.9	ND																
Naphthalene	N/A	10	4.9	ND	0.16	0.17	ND													
Phenanthrene	N/A	50	4.9	ND	0.11	ND	ND	ND	ND	ND	ND									
Pyrene	N/A	50	4.9	ND																
Arsenic	N/A	25	10	ND	7.3	ND														
Lead	N/A	25	5	11	ND	15	30	5.9	5.9	ND										
Zinc	N/A	2,000	10	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	3,660	3,060

EPA

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= Ambient Water Quality Standards

AWQS µg/L ND H

J

= Micrograms per Liter = Not detected above laboratory reporting limits

= Quantitated using peak height rather than peak area

= Estimated Concentration Value

Bolded = values indicate exceedance of the NYSDEC AWQS



#### Groundwater Analytical Data LTMW-D04

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

EPA

= Environmental Protection Agency

NYSDEC = New York State Department of Environmental Conservation

= Ambient Water Quality Standards

AWQS µg/L ND H J

= Micrograms per Liter = Not detected above laboratory reporting limits

= Quantitated using peak height rather than peak area

=

Bolded = values indi

= Estimated Concentration Value = values indicate exceedance of the NYSDEC AWQS



#### Groundwater Analytical Data LTMW-S04

Parameter	EPA - Maximum Allowable (uq/L)	NYSDEC AWQS (µg/L)	Reporting Level (µg/L)	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	06/07/18	09/13/18
Benzene	5	1	1	ND																
Toluene	1,000	5	1	ND																
Ethylbenzene	700	5	1	ND																
Xylene (total)	10,000	5	2	ND																
Acenaphthene	N/A	20	4.9	ND																
Acenaphthylene	N/A	NA	4.9	ND																
Anthracene	N/A	NA	4.9	ND																
Benzo(a)anthracene	N/A	0.002	4.9	ND																
Benzo(a)pyrene	N/A	ND	4.9	ND																
Benzo(b)fluoranthene	N/A	0.002	4.9	ND																
Benzo(g,h,i)perylene	0.2	NA	4.9	ND																
Benzo(k)fluoranthene	N/A	0.002	4.9	ND																
Chrysene	N/A	0.002	4.9	ND																
Cyanide	N/A	200	10	580	680	870	400	800	170	450	600	59	2,000	900	1,200	200	1,300	400	230	220
Dibenzo(a,h)anthracene	N/A	50	4.9	ND																
Fluoranthene	N/A	50	4.9	ND																
Fluorene	N/A	0.002	4.9	ND																
Indeno(1,2,3-cd)pyrene	N/A	50	4.9	ND																
Naphthalene	N/A	10	4.9	ND																
Phenanthrene	N/A	50	4.9	ND																
Pyrene	N/A	50	4.9	ND																
Arsenic	N/A	25	10	ND																
Lead	N/A	25	5	ND																
Zinc	N/A	2,000	10	330	120	180	610	140	ND	510	340	23	618	358	108	128	472	472	267	179

EPA NYSDEC = Environmental Protection Agency

= New York State Department of Environmental Conservation

= Ambient Water Quality Standards

AWQS μg/L ND H

= Micrograms per Liter = Not detected above laboratory reporting limits

= Quantitated using peak height rather than peak area

J

= Estimated Concentration Value Bolded = values indicate exceedance of the NYSDEC AWQS



#### Groundwater Analytical Data LTMW-D05

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

EPA

= Environmental Protection Agency

NYSDEC = New York State Department of Environmental Conservation

= Ambient Water Quality Standards

AWQS µg/L ND H

J

= Micrograms per Liter = Not detected above laboratory reporting limits

= Quantitated using peak height rather than peak area

= Estimated Concentration Value

Bolded = values indicate exceedance of the NYSDEC AWQS



#### Groundwater Analytical Data LTMW-S05

Parameter	EPA - Maximum Allowable (ug/L)	NYSDEC AWQS (µg/L)	Reporting Level (µg/L)	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	06/07/18	09/13/18
Benzene	5	1	1	ND	5,800	ND	ND	ND	ND	ND	ND									
Toluene	1,000	5	1	ND	1,320	ND	ND	ND	ND	ND	ND									
Ethylbenzene	700	5	1	ND	145	ND	ND	ND	ND	ND	ND									
Xylene (total)	10,000	5	2	ND	206	ND	ND	ND	ND	ND	ND									
Acenaphthene	N/A	20	4.9	ND	0.19	ND	ND	ND	ND	ND	ND									
Acenaphthylene	N/A	NA	4.9	ND	0.31	ND	ND	ND	ND	ND	ND									
Anthracene	N/A	NA	4.9	ND																
Benzo(a)anthracene	N/A	0.002	4.9	ND																
Benzo(a)pyrene	N/A	ND	4.9	ND																
Benzo(b)fluoranthene	N/A	0.002	4.9	ND																
Benzo(g,h,i)perylene	0.2	NA	4.9	ND																
Benzo(k)fluoranthene	N/A	0.002	4.9	ND																
Chrysene	N/A	0.002	4.9	ND																
Cyanide	N/A	200	10	150	94	140	190	220	160	450	250	16	830	510	570	270	380	430	120	89
Dibenzo(a,h)anthracene	N/A	50	4.9	ND																
Fluoranthene	N/A	50	4.9	ND																
Fluorene	N/A	0.002	4.9	ND	0.15	ND	ND	ND	ND	ND	ND									
Indeno(1,2,3-cd)pyrene	N/A	50	4.9	ND																
Naphthalene	N/A	10	4.9	ND																
Phenanthrene	N/A	50	4.9	ND																
Pyrene	N/A	50	4.9	ND																
Arsenic	N/A	25	10	ND																
Lead	N/A	25	5	ND	ND	11	ND	5.4	ND	ND	ND	ND	ND	ND						
Zinc	N/A	2,000	10	11	13	75	ND	27	ND	ND	19	23	ND	27.5	ND	ND	ND	ND	ND	ND

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= Ambient Water Quality Standards

AWQS μg/L ND H

= Micrograms per Liter = Not detected above laboratory reporting limits

= Quantitated using peak height rather than peak area

J

= Estimated Concentration Value Bolded = values indicate exceedance of the NYSDEC AWQS



#### Groundwater Analytical Data LTMW-D06

Parameter	EPA - Maximum Allowable (uq/L)	NYSDEC AWQS (µg/L)	Reporting Level (µg/L)	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	06/07/18	09/13/18
Benzene	5	1	1	ND																
Toluene	1,000	5	1	ND																
Ethylbenzene	700	5	1	ND																
Xylene (total)	10,000	5	2	ND																
Acenaphthene	N/A	20	4.9	ND																
Acenaphthylene	N/A	NA	4.9	ND																
Anthracene	N/A	NA	4.9	ND																
Benzo(a)anthracene	N/A	0.002	4.9	ND																
Benzo(a)pyrene	N/A	ND	4.9	ND																
Benzo(b)fluoranthene	N/A	0.002	4.9	ND																
Benzo(g,h,i)perylene	0.2	NA	4.9	ND																
Benzo(k)fluoranthene	N/A	0.002	4.9	ND																
Chrysene	N/A	0.002	4.9	ND																
Cyanide	N/A	200	10	ND	92	ND														
Dibenzo(a,h)anthracene	N/A	50	4.9	ND																
Fluoranthene	N/A	50	4.9	ND																
Fluorene	N/A	0.002	4.9	ND																
Indeno(1,2,3-cd)pyrene	N/A	50	4.9	ND																
Naphthalene	N/A	10	4.9	ND																
Phenanthrene	N/A	50	4.9	ND																
Pyrene	N/A	50	4.9	ND	8.1	ND	ND	ND	ND	ND	ND									
Arsenic	N/A	25	10	ND	0.64	ND	ND	8.1	8.5	8.0	6.0	12.0	10.4							
Lead	N/A	25	5	ND																
Zinc	N/A	2,000	10	ND	0.015	ND														

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AWQS μg/L ND H

= Micrograms per Liter = Not detected above laboratory reporting limits

= Quantitated using peak height rather than peak area

J

= Estimated Concentration Value Bolded = values indicate exceedance of the NYSDEC AWQS



#### Groundwater Analytical Data LTMW-S06

Parameter	EPA - Maximum Allowable (uq/L)	NYSDEC AWQS (µg/L)	Reporting Level (µg/L)	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	06/07/18	09/13/18
Benzene	5	1	1	ND																
Toluene	1,000	5	1	ND																
Ethylbenzene	700	5	1	ND																
Xylene (total)	10,000	5	2	ND																
Acenaphthene	N/A	20	4.9	ND																
Acenaphthylene	N/A	NA	4.9	ND																
Anthracene	N/A	NA	4.9	ND																
Benzo(a)anthracene	N/A	0.002	4.9	ND																
Benzo(a)pyrene	N/A	ND	4.9	ND																
Benzo(b)fluoranthene	N/A	0.002	4.9	ND																
Benzo(g,h,i)perylene	0.2	NA	4.9	ND																
Benzo(k)fluoranthene	N/A	0.002	4.9	ND																
Chrysene	N/A	0.002	4.9	ND																
Cyanide	N/A	200	10	66	17	100	ND	32	19	32	66	31	ND	190	79	14	18	64	55	19
Dibenzo(a,h)anthracene	N/A	50	4.9	ND																
Fluoranthene	N/A	50	4.9	ND																
Fluorene	N/A	0.002	4.9	ND																
Indeno(1,2,3-cd)pyrene	N/A	50	4.9	ND																
Naphthalene	N/A	10	4.9	ND																
Phenanthrene	N/A	50	4.9	ND																
Pyrene	N/A	50	4.9	ND																
Arsenic	N/A	25	10	ND	9	ND														
Lead	N/A	25	5	ND																
Zinc	N/A	2,000	10	ND	0.01	0.01	ND	ND	ND	18	ND									

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AWQS µg/L ND H

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= Quantitated using peak height rather than peak area

J Bolded = Estimated Concentration Value = values indicate exceedance of the NYSDEC AWQS



#### Groundwater Analytical Data LTMW-S07

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

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= Ambient Water Quality Standards

AWQS µg/L ND H

J

= Micrograms per Liter = Not detected above laboratory reporting limits

= Quantitated using peak height rather than peak area

= Estimated Concentration Value

Bolded = values indicate exceedance of the NYSDEC AWQS



#### Groundwater Analytical Data LTMW-S08

Parameter	EPA - Maximum Allowable (uɑ/L)	NYSDEC AWQS (µg/L)	Reporting Level (µg/L)	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	06/07/18	09/13/18
Benzene	5	1	1	ND	ND	2.4	ND													
Toluene	1,000	5	1	ND																
Ethylbenzene	700	5	1	ND																
Xylene (total)	10,000	5	2	ND																
Acenaphthene	N/A	20	4.9	ND																
Acenaphthylene	N/A	NA	4.9	ND																
Anthracene	N/A	NA	4.9	ND																
Benzo(a)anthracene	N/A	0.002	4.9	ND																
Benzo(a)pyrene	N/A	ND	4.9	ND																
Benzo(b)fluoranthene	N/A	0.002	4.9	ND																
Benzo(g,h,i)perylene	0.2	NA	4.9	ND																
Benzo(k)fluoranthene	N/A	0.002	4.9	ND																
Chrysene	N/A	0.002	4.9	ND																
Cyanide	N/A	200	10	110	170	560	120	100	100	280	120	120	140	240	16	140	16	200	150	80
Dibenzo(a,h)anthracene	N/A	50	4.9	ND																
Fluoranthene	N/A	50	4.9	ND																
Fluorene	N/A	0.002	4.9	ND																
Indeno(1,2,3-cd)pyrene	N/A	50	4.9	ND																
Naphthalene	N/A	10	4.9	ND	0.12	ND														
Phenanthrene	N/A	50	4.9	ND																
Pyrene	N/A	50	4.9	ND																
Arsenic	N/A	25	10	ND																
Lead	N/A	25	5	ND																
Zinc	N/A	2,000	10	ND																

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NYSDEC = New York State Department of Environmental Conservation

= Ambient Water Quality Standards

AWQS µg/L ND H

= Micrograms per Liter = Not detected above laboratory reporting limits

= Quantitated using peak height rather than peak area

J

Bolded

= Estimated Concentration Value = values indicate exceedance of the NYSDEC AWQS



#### Groundwater Analytical Data LTMW-S09

Parameter	EPA - Maximum Allowable (uq/L)	NYSDEC AWQS (µg/L)	Reporting Level (µg/L)	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	06/07/18	09/13/18
Benzene	5	1	1	ND																
Toluene	1,000	5	1	ND																
Ethylbenzene	700	5	1	ND																
Xylene (total)	10,000	5	2	ND																
Acenaphthene	N/A	20	4.9	ND																
Acenaphthylene	N/A	NA	4.9	ND																
Anthracene	N/A	NA	4.9	ND																
Benzo(a)anthracene	N/A	0.002	4.9	ND																
Benzo(a)pyrene	N/A	ND	4.9	ND																
Benzo(b)fluoranthene	N/A	0.002	4.9	ND																
Benzo(g,h,i)perylene	0.2	NA	4.9	ND																
Benzo(k)fluoranthene	N/A	0.002	4.9	ND																
Chrysene	N/A	0.002	4.9	ND																
Cyanide	N/A	200	10	ND																
Dibenzo(a,h)anthracene	N/A	50	4.9	ND																
Fluoranthene	N/A	50	4.9	ND																
Fluorene	N/A	0.002	4.9	ND																
Indeno(1,2,3-cd)pyrene	N/A	50	4.9	ND																
Naphthalene	N/A	10	4.9	ND																
Phenanthrene	N/A	50	4.9	ND																
Pyrene	N/A	50	4.9	ND																
Arsenic	N/A	25	10	ND																
Lead	N/A	25	5	ND	11	ND	ND	5.4	ND											
Zinc	N/A	2,000	10	ND	66	22	17	45	ND	ND	10	13	23.2	97.6	24.4	ND	15.3	ND	ND	10.7

EPA NYSDEC = Environmental Protection Agency

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AWQS μg/L ND H

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= Quantitated using peak height rather than peak area

J

= Estimated Concentration Value Bolded = values indicate exceedance of the NYSDEC AWQS



#### Groundwater Analytical Data LTMW-S10

Parameter	EPA - Maximum Allowable (ug/L)	NYSDEC AWQS (µg/L)	Reporting Level (µg/L)	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	06/07/18	09/13/18
Benzene	5	1	1	ND																
Toluene	1,000	5	1	ND																
Ethylbenzene	700	5	1	ND																
Xylene (total)	10,000	5	2	ND																
Acenaphthene	N/A	20	4.9	15 H	26	21	17	36	29	6.3	6.3	23	17.4	3.1	4.30	11.0	6.8	2.3	9.7	11.8
Acenaphthylene	N/A	NA	4.9	ND	0.9	0.96	0.2	0.23	0.73	0.54	0.20	0.51	0.61							
Anthracene	N/A	NA	4.9	ND	0.17	0.12	0.12	ND	0.11	ND	ND	ND	0.14							
Benzo(a)anthracene	N/A	0.002	4.9	ND																
Benzo(a)pyrene	N/A	ND	4.9	ND																
Benzo(b)fluoranthene	N/A	0.002	4.9	ND																
Benzo(g,h,i)perylene	0.2	NA	4.9	ND																
Benzo(k)fluoranthene	N/A	0.002	4.9	ND																
Chrysene	N/A	0.002	4.9	ND																
Cyanide	N/A	200	10	ND																
Dibenzo(a,h)anthracene	N/A	50	4.9	ND																
Fluoranthene	N/A	50	4.9	ND	2.1	1.5	0.5	0.62	2.0	1.4	0.71	1.3	1.8							
Fluorene	N/A	0.002	4.9	ND	1.5	1.1	0.17	0.35	1.1	0.73	0.25	0.71	1.0							
Indeno(1,2,3-cd)pyrene	N/A	50	4.9	ND																
Naphthalene	N/A	10	4.9	ND	0.2	0.17	ND	ND	0.20	9.1	ND									
Phenanthrene	N/A	50	4.9	ND	1.4	0.94	ND	0.22	0.73	0.43	0.12	0.32	0.76							
Pyrene	N/A	50	4.9	ND	2.6	1.9	0.45	0.71	2.4	1.7	0.90	1.7	2.3							
Arsenic	N/A	25	10	ND																
Lead	N/A	25	5	ND																
Zinc	N/A	2,000	10	ND	0.011	0.011	ND													

EPA

= Environmental Protection Agency

NYSDEC = New York State Department of Environmental Conservation

= Ambient Water Quality Standards

AWQS μg/L ND H

= Micrograms per Liter = Not detected above laboratory reporting limits

= Quantitated using peak height rather than peak area

J

= Estimated Concentration Value Bolded = values indicate exceedance of the NYSDEC AWQS



#### **Discharge Analytical Data** Groundwater Extraction System Effluent Concentrations

Parameter	City of Rome WPCF Permit Max Daily Limit (mg/L)	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	06/07/18	09/13/18
Benzene	0.13	0.04	0.044	0.037	0.063	0.043	0.0393	0.0536	0.0611	0.0360	0.0200	0.0274	0.0315	0.0239
Ethylbenzene	1.59	0.0042	0.003	0.0021	0.0049	0.0042	0.0025	0.0045	0.0050	0.0052	0.0019	0.0024	0.0040	0.0024
Toluene	1.35	0.0013	0.0011	0.0038	0.0087	0.0021	0.0019	0.0028	0.0095	ND (<0.001)	0.0017	0.0025	0.0025	0.0037
Xylene	1.35	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)				
Total BTEX	2.87	0.05	0.048	0.043	0.078	0.049	0.0437	0.0609	0.0790	0.0412	0.0236	0.0323	0.0380	0.0300
Arsenic	0.1	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.0050)	ND (<0.010)	ND (<0.0050)						
Cadmium	0.11	0.0017	ND (<0.001)	ND (<0.001)	ND (<0.001)	ND (<0.0030)	ND (<0.0025)	ND (<0.0030)						
Chromium	2.77	ND (<0.0040)	ND (<0.0040)	ND (<0.0040)	ND (<0.0040)	ND (<0.0050)	ND (<0.010)	ND (<0.0050)						
Copper	1.3	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.0050)	ND (<0.025)	ND (<0.0050)						
Cyanide	1.2	0.075	0.075	0.11	0.11	0.062	ND (<0.010)	0.090	0.084	0.056	0.074	0.069	0.070	0.059
Lead	1.1	ND (<0.0050)												
Mercury	0.2	ND (<0.00020)												
Nickel	1.9	ND (<0.010)	ND (<0.04)	ND (<0.010)										
Silver	0.43	ND (<0.0030)	ND (<0.0030)	ND (<0.0030)	ND (<0.0030)	ND (<0.0060)	ND (<0.010)	ND (<0.0060)						
Zinc	2.6	ND (<0.010)	0.018	0.018	0.018	ND (<0.010)	0.0241	ND (<0.010)						
Oil & Grease	100	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	NS								
CBOD5	250	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	NS								
рН	5.5 - 11.5 su	6.88	6.98	7.06	6.91	6.8	6.8	6.7	6.9	6.8	6.8	6.8	6.7	6.9

Results in mg/L.

mg/L = Milligrams per Liter = Water Pollution Control Facility

WPCF = Not Sampled

NS

NA = Not Analyzed



# **Appendix A – Field Inspection Report**

## FIELD INSPECTION REPORT

Former MGP Site Kingsley Avenue Rome, New York

Date: 9/14/2018 Technician: KL/PD Time: Weather: 7:00 Sunny 69°

Site Controls										
Fence Condition	GOOD FAIR			DAMAGED	COMMENTS					
Kingsley Ave Gate	GOOD	FA	<b>I</b> R	DAMAGED	COMMENTS:					
Padlock-NG/CDMSmith	OPERATIO	NAL	NON-0	OPERATIONAL	COMMENTS:					
Railroad Ave Gate	GOOD	FA	IR	DAMAGED	COMMENTS:					
Padlock-NG/CDMSmith	OPERATIO	NAL	NON-0	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	UNOBSTRU	CTED	OB	STRUCTED				
	Flow	NONE	LIT	LITTLE SIGNIFICA		COMMENTS:			
	Outlet Channel	OPERATIO	NAL	NON-C	OPERATIONAL	COMMENTS:			

Miscellaneous									
Evidence of Trespassing	NO			YES	COMMENTS:				
Litter	NONE	MIN	IOR	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	9.58	42.70	45.81	Removed 2.5 gallons of DNAPL
MW-OU2-2	10.40	47.39	47.53	
MW-OU2-3	7.02	NP	34.18	
MW-OU2-4	7.06	34.90	39.55	Removed 2 gallons of DNAPL
MW-OU2-5	7.72	NP	36.01	
DNAPL-02	9.60	NP	50.40	
DNAPL-03	9.70	51.00	52.32	
DNAPL-04	11.00	NP	51.45	
DNAPL-05	13.08	NP	54.75	
DNAPL-06	12.15	NP	51.45	
DNAPL-07	13.20	NP	53.60	
DNAPL-08	13.65	NP	58.01	
DNAPL-09	14.50	NP	57.58	
VTM-1	12.20	NP	46.37	
VTM-2	10.65	NP	49.47	
VTM-3	11.80	NP	50.91	
VTM-4	13.70	NP	50.62	
VTM-5	13.85	NP	52.52	
LTMW-D01	8.81	NP	46.84	
LTMW-S01	8.67	NP	16.92	
LTMW-D02	10.60	NP	40.29	
LTMW-S02	10.36	NP	17.98	
LTMW-D03	5.48	NP	40.73	
LTMW-S03	4.18	NP	13.70	
LTMW-D04	10.02	NP	46.36	
LTMW-S04	9.35	NP	17.26	
LTMW-D05	9.67	NP	46.53	
LTMW-S05	9.68	NP	16.83	
LTMW-D06	12.70	NP	52.22	
LTMW-S06	13.35	NP	17.60	
LTMW-S07	11.55	NP	17.82	
LTMW-S08	15.80	NP	17.39	
LTMW-S09	10.23	NP	16.92	
LTMW-S10	10.75	NP	17.18	

### Containment

Well Id.	Elevation	DTW	Water Elevation	Positive Delta
DNAPL-02	436.81	9.60	427.21	6.63
Top Steel Sheet Wall	433.84			0.03
DNAPL-03	437.23	9.70	427.53	3.68
Top Steel Sheet Wall	431.21			5.08
DNAPL-04	438.50	11.00	427.50	5.32
Top Steel Sheet Wall	432.82			5.52
DNAPL-05	440.60	13.08	427.52	2.68
Top Steel Sheet Wall	430.20			2.08
DNAPL-06	439.71	12.15	427.56	5.99
Top Steel Sheet Wall	433.55			5.59
VTM-1	439.74	12.20	427.54	4.28
Top Steel Sheet Wall	431.82			4.20
VTM-2	438.33	10.65	427.68	5.02
Top Steel Sheet Wall	432.70			5.02
VTM-3	439.44	11.80	427.64	9.28
Top Steel Sheet Wall	436.92			9.20
VTM-4	441.59	13.70	427.89	5.65
Top Steel Sheet Wall	433.54			5.05
VTM-5	441.79	13.85	427.94	8.06
Top Steel Sheet Wall	436.00			3.00



# Appendix C – Well Sampling Field Data

## National Grid Kingsley Ave, Former MGP Site Rome, New York

Well ID	Sample ?	Well Size	DTW	DTP	DTB	Comments
MW-0U2-1	No	4"	9,58	42.70	45.81	ALS REMONDY
MW-002-2	No	4"	10.40	77.39	47.53	
MW-002-3	No	4" <del>G.C</del>			34.18	7.02NP
MW-002-4	No	4"	7.00	34.90	39.55	26 Aris Kana
MW-002-5	No	4"	7.72		36.01	
WIW-002 5	1					
DNAPL-02	No	6"	9-60		50.40	
DNAPL-03	No	6"	9.70	51.0	52.32	
DNAPL-04	No	6"	11.00		51.45	
DNAPL-05	No	6"	13.08		54.75	
DNAPL-06	No	6"	12.15		51.45	
DNAPL-07	No	6"	13.20		53.60	
DNAPL-08	No	6"	13.65		58.01	
DNAPL-09	No	6"	14.60		57.58	
VTM-1	No	6"	12.20		46.37	
VTM-2	No	6"	10.105		49.47	
VTM-3	No	6"	11.30		50.91	
VTM-4	No	6"	13.70		50.62	
VTM-5	No	6"	13.85		52.52	
LTMW-D01	Yes	2"	8-81		46.84	
LTMW-S01	Yes	2"	8.67		16.92	
LTMW-D02	Yes	2"	10.60		40.29	
LTMW-S02	Yes	2"	10.36		17.98	
LTMW-D03	Yes	2"	548		40.73	
LTMW-S03	Yes	2"	4.18		13.70	
LTMW-D04	Yes	2"	10.02		46.36	
LTMW-S04	Yes	2"	9.35		17.26	
LTMW-D05	Yes	2"	9.67		46.53	
LTMW-S05	Yes	2"	9.63		16.83	
LTMW-D06	Yes	2"	12.70		52.22	
LTMW-506	Yes	2"	13.35		17.60	
LTMW-S07	Yes	2"	11.55		17.82	
LTMW-S08	Yes	2"	15.00		17.39	
LTMW-S09	Yes	2"	10.23		16.92	Dup
LTMW-S10	Yes	2"	10,75		17.18	MS/MSD

•.'

DTW -depth to water DTP -depth to product DTB -depth to bottom All from top of casing

	1/			_	alal.a		
Sampling Personnel:	<u> </u>			Date:	<u>9/13/19</u>	1	1
Job Number: 06-030	40-134400-221			Weather	CLOUPY	05	
Well Id. LTMW-D	01			Time In:	19:00	Time Out:	<i>&amp;</i> \$5
					<u> </u>		·····
Well Information							
		тос	Other	Well Typ	e: Flus	hmount S	Stick-Up
Depth to Water:	(feet) 🔗			Well Loc		Yes	No
Depth to Bottom:	(feet)	46.84		Measuring	Point Marked:	Yes	No
Depth to Product:	(feet)			Well Mat		⊠ss∏Oth	er:
Length of Water Colun	<u></u>	9.03		Well Dia	meter: 1"	2" 🛛 Oth	er:
Volume of Water in W		2.08		Commer	ts:		
Three Well Volumes:	(gal)	8.25					
	\\ \\ \ \ \ \						
Purging Informatic	n						
						Conversion F	actors
Purging Method:	Bailer	Peristaltic	Grundf	os Pump		1" ID 2" ID	4" ID 6" ID
Tubing/Bailer Material:		Stainless St.		rethylene	gal/ft. of		
Sampling Method:	Bailer		· · ·	os Pump	water	0.04 0.16	0.66 1.47
Average Pumping Rate		200			h	on=3.785L=3785m	· · · · · · · · · · · · · · · · · · ·
Duration of Pumping:	(min)	30			\	· · · · · · · · · · · · · · · · · · ·	
Total Volume Remove			id well go dry?	Yes			
					J		
Horiba U-52 Water Qu	ality Meter Used?	Yes	No				
Time DT\	N Temp	pН	ORP	Conductivit		DO	TDS
	et) (°C)		(mV)	(mS/cm)	(NTU)	(mg/L)	(g/L)
 	et) (°C)	7.86	(mV) - 227	(mS/cm)	(NTU)	(mg/L) 3,68	(g/L) 0.229
Time DT\ (fee 69:15 <b>9:</b> 8	et) (°C)	7.86	(mV) - <u>227</u> -250	(mS/cm) 6.353 0.353		(mg/L)	(g/L) 0.229 0.229
Time DTV (fee 09:15 9.8 09:20 10:7 09:20 10:7 09:35 12:9	et) (°C) 4 18.28 8 17.70 7 15.96	7.86	(mV) -227 -255 -26/0	(mS/cm) 6 . 353 0 . 353 0 . 353	(NTU) 3.1 2.3 2.7	(mg/L) 3.68 3.02 2.03	(g/L) 0.229 0.229 0.233
Time DTV (fee 09:15 9.8 09:20 10:17 09:25 12.9 09:25 12.9 09:20 14.5	$\begin{array}{cccc} ti & (°C) \\ tf & 18.28 \\ tf & 17.70 \\ tf & 15.86 \\ tf & 15.25 \\ tf & 15.25 \end{array}$	7.86	(mV) - <u>2</u> - <del>2</del> - 255 - 26/5 - 267	(mS/cm) 6.353 0.353 0.353 0.357 0.361	(NTU) 3.1 2.3 2.7 2.7	(mg/L) 3,68	(g/L) 0.229 0.229
Time DTV (fee 09:15 9.8 09:20 10:7 09:35 10:7 09:35 12.9 09:35 14:5 09:35 16:1	$\begin{array}{cccc} ti & (°C) \\ t' & 18.28 \\ \hline 8 & 17.70 \\ \hline 7 & 15.96 \\ \hline 8 & 15.25 \\ \hline 8 & 14.99 \\ \hline \end{array}$	7.96 7.93 7.94 7.81 7.31	(mV) -227 -250 -2610 -267 -267	(mS/cm) 6.353 0.352 0.352 0.357 0.361 0.361	(NTU) 3.1 2.3 2.7 2.7 3.3	(mg/L) 3.68 3.02 7.03 1.85 1.69	(g/L) 0.229 0.229 0.233 0.235 0.235 0.235
Time DTV (fee 09:15 9.9 09:20 10.7 09:20 10.7 09:25 12.9 09:25 14.5 09:35 16.1 09:40 17.4	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	7.96 7.93 7.94 7.91 7.91 7.72 7.59	(mV) ~227 ~250 ~26/0 ~267 ~267 ~267 ~267	(mS/cm) 6.353 0.353 0.359 0.369 0.369	(NTU) 3.1 3.3 3.3 3.7 3.7 3.7 3.7 3.7 3.7	(mg/L) 3.68 3.02 7.03 1.85 1.69 1.69 1.58	(g/L) 0.229 0.229 0.233 0.235 0.235 0.235 0.237
Time DTV (fee 09:15 9.8 09:20 10:7 09:35 10:7 09:35 12.9 09:35 14:5 09:35 16:1	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	7.96 7.93 7.94 7.81 7.31	(mV) ~227 ~250 ~26/0 ~267 ~267 ~267 ~267	(mS/cm) 6.353 0.352 0.352 0.357 0.361 0.361	(NTU) 3.1 3.3 3.3 3.7 3.7 3.7 3.7 3.7 3.7	(mg/L) 3.68 3.02 7.03 1.85 1.69	(g/L) 0.229 0.229 0.233 0.235 0.235 0.235
Time DTV (fee 09:15 9.9 09:20 10.7 09:20 10.7 09:25 12.9 09:25 14.5 09:35 16.1 09:40 17.4	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	7.96 7.93 7.94 7.91 7.91 7.72 7.59	(mV) ~227 ~250 ~26/0 ~267 ~267 ~267 ~267	(mS/cm) 6.353 0.353 0.359 0.369 0.369	(NTU) 3.1 3.3 3.3 3.7 3.7 3.7 3.7 3.7 3.7	(mg/L) 3.68 3.02 7.03 1.85 1.69 1.69 1.58	(g/L) 0.229 0.229 0.233 0.235 0.235 0.235 0.237
Time DTV (fee 09:15 9.9 09:20 10.7 09:20 10.7 09:25 12.9 09:25 14.5 09:35 16.1 09:40 17.4	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	7.96 7.93 7.94 7.91 7.91 7.72 7.59	(mV) ~227 ~250 ~26/0 ~267 ~267 ~267 ~267	(mS/cm) 6.353 0.353 0.359 0.369 0.369	(NTU) 3.1 3.3 3.3 3.7 3.7 3.7 3.7 3.7 3.7	(mg/L) 3.68 3.02 7.03 1.85 1.69 1.69 1.58	(g/L) 0.229 0.229 0.233 0.235 0.235 0.235 0.237
Time DTV (fee 09:15 9.9 09:20 10.7 09:20 10.7 09:25 12.9 09:25 14.5 09:35 16.1 09:40 17.4	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	7.96 7.93 7.94 7.91 7.91 7.72 7.59	(mV) ~227 ~250 ~26/0 ~267 ~267 ~267 ~267	(mS/cm) 6.353 0.353 0.359 0.369 0.369	(NTU) 3.1 3.3 3.3 3.7 3.7 3.7 3.7 3.7 3.7	(mg/L) 3.68 3.02 7.03 1.85 1.69 1.69 1.58	(g/L) 0.229 0.229 0.233 0.235 0.235 0.235 0.237
Time DTV (fee 09:15 9.9 09:20 10.7 09:20 10.7 09:25 12.9 09:25 14.5 09:35 16.1 09:40 17.4	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	7.96 7.93 7.94 7.91 7.91 7.72 7.59	(mV) ~227 ~250 ~26/0 ~267 ~267 ~267 ~267	(mS/cm) 6.353 0.353 0.359 0.369 0.369	(NTU) 3.1 3.3 3.3 3.7 3.7 3.7 3.7 3.7 3.7	(mg/L) 3.68 3.02 7.03 1.85 1.69 1.69 1.58	(g/L) 0.229 0.229 0.233 0.235 0.235 0.235 0.235
Time DTV (fee 09:15 9.9 09:20 10.7 09:20 10.7 09:25 12.9 09:25 14.5 09:35 16.1 09:40 17.4	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	7.96 7.93 7.94 7.91 7.91 7.72 7.59	(mV) ~227 ~250 ~26/0 ~267 ~267 ~267 ~267	(mS/cm) 6.353 0.353 0.359 0.369 0.369	(NTU) 3.1 3.3 3.3 3.7 3.7 3.7 3.7 3.7 3.7	(mg/L) 3.68 3.02 7.03 1.85 1.69 1.69 1.58	(g/L) 0.229 0.229 0.233 0.235 0.235 0.235 0.237
Time DTV (fee 09:15 9.9 09:20 10.7 09:20 10.7 09:25 12.9 09:25 14.5 09:35 16.1 09:40 17.4	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	7.96 7.93 7.94 7.91 7.91 7.72 7.59	(mV) ~227 ~250 ~26/0 ~267 ~267 ~267 ~267	(mS/cm) 6.353 0.353 0.359 0.369 0.369	(NTU) 3.1 3.3 3.3 3.7 3.7 3.7 3.7 3.7 3.7	(mg/L) 3.68 3.02 7.03 1.85 1.69 1.69 1.58	(g/L) 0.229 0.229 0.233 0.235 0.235 0.235 0.237
Time DTV (fee 09:15 9.9 09:20 10.7 09:20 10.7 09:20 12.9 09:20 14.5 09:40 17.4 09:40 17.4	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	7.96 7.93 7.94 7.91 7.91 7.72 7.59	(mV) ~227 ~250 ~26/0 ~267 ~267 ~267 ~267	(mS/cm) 6.353 0.353 0.359 0.369 0.369	(NTU) 3.1 3.3 3.3 3.7 3.7 3.7 3.7 3.7 3.7	(mg/L) 3.68 3.02 7.03 1.95 1.69 1.57	(g/L) 0.229 0.229 0.233 0.235 0.235 0.235 0.235 0.237 0.238
Time DTV (fee 09:15 9.9 09:20 10.7 09:20 10.7 09:20 12.9 09:20 14.5 09:40 17.4 09:40 17.4	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	7.96 7.93 7.94 7.81 7.91 7.91 7.91 7.91 7.91	(mV) ~227 ~250 ~26/0 ~267 ~267 ~267 ~267	(mS/cm) 6.353 0.353 0.359 0.369 0.369	(NTU) 3.1 3.3 3.3 3.7 3.7 3.7 3.7 3.7 3.7	(mg/L) 3.68 3.02 7.03 1.95 1.69 1.57	(g/L) 0.229 0.229 0.233 0.235 0.235 0.235 0.237
Time         DTN (fee           09:15         9.9           09:20         10.7           09:20         10.7           09:20         10.7           09:20         10.7           09:20         10.7           09:20         12.9           09:25         12.9           09:26         14.5           09:40         17.4           09:40         17.4           09:40         18.9           09:40         18.9           09:40         18.9           09:40         18.9           09:40         18.9	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	7.96 7.93 7.94 7.91 7.91 7.91 7.91 7.91 7.49	(mV) ~227 ~250 ~26/0 ~267 ~267 ~267 ~267	(mS/cm) 6.353 0.353 0.359 0.369 0.369	(NTU) 3.1 3.1 3.3 3.7 3.7 3.7 3.7 3.7 3.7 3.7	(mg/L) 3.68 3.02 7.03 1.85 1.69 1.57 1.57	(g/L) 0.229 0.229 0.233 0.235 0.235 0.235 0.237 0.237 0.238
Time         DTN (fee           09:15         9.9           09:20         10.7           09:20         10.7           09:20         10.7           09:20         10.7           09:20         10.7           09:20         14.5           09:40         17.4           09:40         17.4           09:40         17.4           09:40         18.7           09:40         18.7           09:40         18.7           09:40         18.7           09:40         18.7           09:40         18.7           09:40         18.7           09:40         18.7           09:40         18.7           09:40         18.7           08:46         Method	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	7.96 7.93 7.94 7.91 7.91 7.91 7.91 7.91 7.91	(mV) ~227 ~250 ~26/0 ~267 ~267 ~267 ~267	(mS/cm) 6.353 0.353 0.359 0.369 0.369	(NTU) 3.1 2.3 2.7 3.7 3.7 3.7 3.7 2.3 3.4 2.3 3.5 2.5 3.5 2.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3	(mg/L) 3.68 3.02 3.02 7.03 1.85 1.69 1.57 1.57 1.57 1.57 1.57	(g/L) 0.229 0.229 0.233 0.235 0.235 0.235 0.235 0.237 0.237 0.238
Time         DTV (fee           0 9 : 15         9.9           0 9 : 20         10.7           0 9 : 20         10.7           0 9 : 20         10.7           0 9 : 20         14.5           0 9 : 35         16.1           0 9 : 40         17.4           0 9 : 40         17.4           0 9 : 40         17.4           0 9 : 40         17.4           0 9 : 40         18.7           0 9 : 40         18.7           0 9 : 40         17.4           0 9 : 40         18.7           0 9 : 40         18.7           0 9 : 40         18.7           0 9 : 40         18.7           0 9 : 40         18.7           0 9 : 40         18.7           0 9 : 40         18.7           0 9 : 40         18.7           0 9 : 40         18.7           0 9 : 40         18.7           0 9 : 40         19.7           0 9 : 40         19.7           0 9 : 40         19.7           0 9 : 40         19.7           0 9 : 40         19.7           0 9 : 40         18.7           0 9 : 40	(°C) $4'$ $1 - 2 - 3$ $5'$ $1 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - $	7.96 7.93 7.97 7.91 7.91 7.91 7.91 7.91 7.91 7.91	(mV) ~227 ~250 ~26/0 ~267 ~267 ~267 ~267	(mS/cm) 6.353 0.353 0.359 0.369 0.369	(NTU) 3.1 2.3 2.7 2.7 3.4 3.4 3.4 2.7 2.3 3.4 3.4  2.1 liter amb 3.40 ml via	(mg/L) 3.68 3.02 3.02 3.02 1.55 1.69 1.57 1.57 	(g/L) 0.229 0.229 0.233 0.235 0.235 0.235 0.235 0.237 0.237 0.238 0.237 0.238
Time         DTV (fee           0 9 : 15         9.9           0 9 : 20         10.7           0 9 : 20         10.7           0 9 : 20         10.7           0 9 : 20         14.5           0 9 : 35         16.1           0 9 : 40         17.4           0 9 : 40         17.4           0 9 : 40         18.7           0 9 : 40	(°C) $4'$ $1 - 2 - 3$ $5'$ $1 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - $	7.96 7.93 7.97 7.91 7.91 7.91 7.91 7.91 7.91 7.91	(mV) ~227 ~250 ~26/0 ~267 ~267 ~267 ~267	(mS/cm) G. 353 O. 353 O. 353 O. 367 O. 367 O. 367 O. 365	(NTU) 3.1 2.3 2.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3	(mg/L) 3.68 3.02 3.02 1.03 1.69 1.57	(g/L) 0.229 0.229 0.233 0.235 0.235 0.235 0.235 0.237 0.237 0.238 0.238 0.238 0.238
Time         DTN (fee           0 9 : 15         9.9           0 9 : 20         10.7           0 9 : 20         10.7           0 9 : 20         10.7           0 9 : 20         14.5           0 9 : 35         16.10           0 9 : 40         17.4           0 9 : 40         17.4           0 9 : 40         17.4           0 9 : 40         18.9           0 9 : 40	(°C) $4'$ $1''_{5'} \cdot 2''_{5}$ $5''_{5'}$ $1''_{5'} \cdot 2''_{5}$ $7''_{5'}$ $1''_{5'} \cdot 2''_{5}$ $8''_{5'}$ $1''_{5'} \cdot 2''_{5}$ $8''_{5'}$ $1''_{5'} \cdot 2''_{5}$ $9''_{5'}$ $1''_{5'} \cdot 2''_{5'}$ $8''_{5'}$ $1''_{5'} \cdot 2''_{5'}$ $9''_{5'}$ $1''_{5'} \cdot 2''_{5'}$ $9''_{5'}$ $1''_{5'} \cdot 2''_{5'}$ $9''_{5'}$ $1''_{5'} \cdot 2''_{5'}$ $9''_{5'}$ $1''_{5''} \cdot 2''_{5'}$ $9''_{5''}$ $1''_{5''} \cdot 2''_{5''}$ $9''_{5''}$ $1''_{5''} \cdot 2''_{5''}$ $9''_{5''}$ $1''_{5''} \cdot 2''_{5''}$ $9''_{5''}$ $1''_{5''} \cdot 2''_{5''}$ $1''_{5'''} \cdot 2''_{5'''}$ $1''_{5'''} \cdot 2''_{5'''}$ $1''_{5'''} \cdot 2''_{5''''}$ $1''_{5''''''''''''''''''''''''''''''''''$	7.96 7.93 7.97 7.91 7.91 7.91 7.91 7.91 7.91 7.91	(mV) ~227 ~250 ~26/0 ~267 ~267 ~267 ~267	(mS/cm) G. 353 O. 353 O. 353 O. 367 O. 367 O. 367 O. 365	(NTU) 3.1 2.3 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3	(mg/L) 3.68 3.02 3.02 1.03 1.69 1.57 1.57 1.57 1.57 1.57 2.57	(g/L) 0.229 0.229 0.233 0.235 0.235 0.235 0.235 0.235 0.237 0.238 0.2488 0.2488 0.2488 0.2488 0.2488 0.2488 0.2488 0.2488 0
Time         DTN (fee           0 9 : 15         9.9.9           0 9 : 20         10.7           0 9 : 20         10.7           0 9 : 20         10.7           0 9 : 20         14.5           0 9 : 35         16.11           0 9 : 40         17.4           0 9 : 40         17.4           0 9 : 40         17.4           0 9 : 40         17.4           0 9 : 40         18.9           0 9 : 40         18.9           0 9 : 40         18.9           0 9 : 40         18.9           0 9 : 40         18.9           0 9 : 40         18.9           0 9 : 40         18.9           0 9 : 40         18.9           0 9 : 40         18.9           0 9 : 40         18.9           0 9 : 40         18.9           0 9 : 40         18.9           0 9 : 40         18.9           0 9 : 40         18.9           0 9 : 40         18.9           0 9 : 40         18.9           0 9 : 40         18.9           0 9 : 40         18.9           0 9 : 40         18.9           0 9 : 40 <td>(°C)         <math>4'</math> <math>13 \cdot 25</math> <math>5</math> <math>17 \cdot 70</math> <math>7</math> <math>15 \cdot 25</math> <math>6</math> <math>14 \cdot 49</math> <math>50</math> <math>14 \cdot 49</math> <math>51</math> <math>50</math> <math>50 \cdot 25^{\circ}</math> <math>618260</math>       VOC's I         <math>5.4</math>       Cyani         <math>0.7</math>       Meta         <math>N</math>-D01-0918       Du</td> <td>7.96 7.93 7.94 7.91 7.91 7.91 7.91 7.91 7.91 7.91</td> <td>(mV) ~227 ~250 ~26/0 ~267 ~267 ~267 ~267</td> <td>(mS/cm) G. 353 O. 353 O. 353 O. 367 O. 367 O. 367 O. 365</td> <td>(NTU) 3.1 2.3 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3</td> <td>(mg/L) 3.68 3.02 3.02 1.03 1.69 1.57</td> <td>(g/L) 0.229 0.229 0.233 0.235 0.255 0</td>	(°C) $4'$ $13 \cdot 25$ $5$ $17 \cdot 70$ $7$ $15 \cdot 25$ $6$ $14 \cdot 49$ $50$ $14 \cdot 49$ $51$ $50$ $50 \cdot 25^{\circ}$ $618260$ VOC's I $5.4$ Cyani $0.7$ Meta $N$ -D01-0918       Du	7.96 7.93 7.94 7.91 7.91 7.91 7.91 7.91 7.91 7.91	(mV) ~227 ~250 ~26/0 ~267 ~267 ~267 ~267	(mS/cm) G. 353 O. 353 O. 353 O. 367 O. 367 O. 367 O. 365	(NTU) 3.1 2.3 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3	(mg/L) 3.68 3.02 3.02 1.03 1.69 1.57	(g/L) 0.229 0.229 0.233 0.235 0.255 0
Time         DTN (fee           0 9 : 15         9.9           0 9 : 20         10.7           0 9 : 20         10.7           0 9 : 20         10.7           0 9 : 20         14.5           0 9 : 35         16.10           0 9 : 40         17.4           0 9 : 40         17.4           0 9 : 40         17.4           0 9 : 40         18.7           0 9 : 40	(°C) $4'$ $13 \cdot 25$ $5$ $17 \cdot 70$ $7$ $15 \cdot 25$ $6$ $14 \cdot 49$ $50$ $14 \cdot 49$ $51$ $50$ $50 \cdot 25^{\circ}$ $618260$ VOC's I $5.4$ Cyani $0.7$ Meta $N$ -D01-0918       Du	7.96 7.93 7.97 7.91 7.91 7.91 7.91 7.91 7.91 7.91	(mV) ~2.2.7 ~2.50 ~2.6/p ~2.67 ~2.67 ~2.67 ~2.67 ~2.67	(mS/cm) G. 353 O. 353 O. 353 O. 367 O. 367 O. 367 O. 365	(NTU) 3.1 2.3 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3	(mg/L) 3.68 3.02 3.02 1.03 1.69 1.57 1.57 1.57 1.57 2.57 1.57 2.57 1.57 2.57	(g/L) 0.229 0.229 0.233 0.235 0.235 0.235 0.235 0.237 0.237 0.238 0.235 0.255 0
Time         DTV (fee           0 9 : 15         9.9           0 9 : 20         10.7           0 9 : 20         10.7           0 9 : 20         10.7           0 9 : 20         14.5           0 9 : 35         16.1           0 9 : 40         17.4           0 9 : 40         17.4           0 9 : 40         17.4           0 9 : 40         17.4           0 9 : 40         17.4           0 9 : 40         17.4           0 9 : 40         17.4           0 9 : 40         17.4           0 9 : 40         17.4           0 9 : 40         17.4           0 9 : 40         17.4           0 9 : 40         17.4           0 9 : 40         17.4           0 9 : 40         17.4           0 9 : 40         17.4           0 9 : 40         18.7           0 9 : 40         19.7           0 9 : 40         19.7           0 9 : 40         19.7           0 9 : 40         19.7           0 9 : 40         19.7           0 9 : 40         19.7           0 9 : 40         19.7           0 9 : 40	(°C) $4'$ $13 \cdot 25$ $5$ $17 \cdot 70$ $7$ $15 \cdot 25$ $6$ $14 \cdot 49$ $50$ $14 \cdot 49$ $51$ $50$ $50 \cdot 25^{\circ}$ $618260$ VOC's I $5.4$ Cyani $0.7$ Meta $N$ -D01-0918       Du	7.96 7.93 7.97 7.91 7.91 7.91 7.91 7.91 7.91 7.91	(mV) ~2.2.7 ~2.50 ~2.6/p ~2.67 ~2.67 ~2.67 ~2.67 ~2.67	(mS/cm) G. 353 O. 353 O. 353 O. 367 O. 367 O. 367 O. 365	(NTU) 3.1 2.3 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3	(mg/L) 3.68 3.02 3.02 1.03 1.69 1.57 1.57 1.57 1.57 1.57 2.57	(g/L) 0.229 0.229 0.233 0.235 0.255 0

. Va	Date: 9//3//8
Sampling Personnel:	Survey 1 B
Job Number: 06-03040-134400-221	
Well Id. LTMW-S01	Time In: $3.55$ Time Out: $09.40$
Well Information	
TOC Other	
Depth to Water: (feet) 8.67	Well Locked: Yes No Measuring Point Marked: Yes No
Depth to Bottom: (feet) 16.92	Well Material: PVC SS Other:
Depth to Product: (feet)	Wein Material:         100         2" Other:           Weil Diameter:         1" 2" Other:
Length of Water Column: (feet) 9:35	Comments:
Volume of Water in Well: (gal) /-32	
Three Well Volumes: (gal) 3.94	
Duraina Information	
Purging Information	Conversion Factors
	ps Pump gal/ft. 1" ID 2" ID 4" ID 6" ID
	ethylene Of
	water 0.04 0.16 0.66 1.47
Average Pumping Rate: (ml/min) 200	1 gallon=3.785L=3785mL=1337cu. feet
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	- ( )
Time DTW Temp pH ORP	Conductivity Turbidity DO TDS
	(mS/cm) (NTU) (mg/L) (g/L)
	0-887 5.0 3.44 0.368
09:00 8.71 17.00 6.12 -16+	0.901 3.3 1.86 0.577
04:10 8.71 14.47 6.22 -191	0,909 2.3 1.70 0582
04:15 8 71 16 53 6 27 -195	17.910 2-3 1.70 0.583
19:20 8.71 16.52 6.31 -198	0.911 2.3 1.57 0.583
20:25 B.71 16-50 6-31 -197	0.213 1-9 1-56 0-525
09:30 16.62 6.34 - 99	0.913 1.8 1.55 0.584
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
	Shipped: Pace Courier Pickup
Sample ID: LTMW-S01-0918 Duplicate? Yes No	Shipped: Pace Courier Pickup Drop-off Albany Service Center
Sample Time: 09.30 MS/MSD? Yes No	
Comments/Notes:	Laboratory: Pace Analytical
	Greensburg, PA

National Grid Kingsley Avenue, Rome, New York

· A A					9/13/18		
Sampling Personnel:	)	······		Date:		1	<u></u>
Job Number: 06-03040-134	400-221			Weather:	105° - C	10/01	
Well Id. LTMW-D02			<u></u>	Time In:	0652	Time Out:	0735
Well Information				. –		. — .	
			Other	Well Type:			tick-Up No
Depth to Water:		0.60		Well Locke Measuring P		Yes Yes	No
Depth to Bottom:		10.29		Well Mater			السمسا
Depth to Product:		9.69		Well Diame	r i i i i i i i i i i i i i i i i i i i	2" X Othe	
Length of Water Column:	T	175		Comments			
Volume of Water in Well:		1.25	······································	Quininenta			
Three Well Volumes:	(gal) [4		i				
Purging Information							
						Conversion Fa	actors
Purging Method:	Bailer	Peristaltic	Grundf	os Pump	gal/ft.	1" ID 2" ID	4" ID 6" ID
Tubing/Bailer Material:	Teflon	Stainless St.		/ethylene	of		
Sampling Method:	Bailer	Peristaltic	Grundf	os Pump	water	0.04 0.16	0.66 1.47
Average Pumping Rate:	(ml/min) ∽	180			1 gallo	on=3.785L=3785m	L≈1337cu. feet
Duration of Pumping:		30					
Total Volume Removed:	(gal) 🛥	- <u>2.0</u> Di	d weil go dry?	Yes No	X		
Horiba U-52 Water Quality N	leter Used?	Yes					
		· L					
	Temp	рН	ORP	Conductivity	Turbidity	DO	TDS
Time DTW (feet)	Temp (°C)	рН	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	(mg/L)	(g/L)
Time DTW (feet)		рН 7-69		· ·	(NTU) 50.9	(mg/L) ട്രട്	(g/L) උ. 09 ප
Time DTW (feet)	(°C)	7.69	(mV) 93 95	(mS/cm)	(NTU) 50.9 43.3	(mg/L) 5,65 5,12	(g/L) 0.098 0.095
Time DTW (feet) D655 /2.35	(°C) 16,30 15,72 15.00	7.69 7.69 7.61	(mV) 93 95 96	(mS/cm) 0.151 0.146 0.140	(NTU) 50.9 43.3 42.7	(mg/L) 5:12 3:12	(g/L) 0.098 0.095 0.091
Time         DTW           (feet)         0655           0700         12.67           0705         13.20           0710         13.45	(°C) 16,30 15,72 15,00 14,40	7.69 7.69 7.61 7.53	(mV) 93 95 96 100	(mS/cm) 0.151 0.146 0.140 0.141	(NTU) 50.9 43.3 42.7 36.8	(mg/L) 5.65 5.12 3.60 2.60	(g/L) 0.098 0.095 0.091 0.091
Time DTW (feet) D655 12.35 0700 12.67 0705 13.20 0710 13.45 0715 13.65	(°C) 16,30 15,72 15.00 14.40 14.02	7.69 7.69 7.61 7.53 7.49	(mV) 93 95 96 100 102	(mS/cm) 0.151 0.140 0.140 0.141 0.141	(NTU) E30.9 43.73 42.7 34.8 73.4 13.	(mg/L) 5.65 5.12 3.60 2.60 2.22	(g/L) 0.098 0.095 0.091 0.091 0.091
Time         DTW           (feet)         0655           0700         12.35           0700         12.67           0705         13.20           0710         13.45           0715         13.65           0720         13.76	(°C) 16,30 15,72 15,00 14,40 14,40 14,02 13,72	7.69 7.69 7.61 7.61 7.61 7.63 7.49 7.49	(mV) 93 95 96 100 102 102	(mS/cm) 0.151 0.146 0.140 0.141 0.141 0.140 0.142	(NTU) 50.9 43.3 42.7 36.8 36.9	(mg/L) 5.65 5.12 3.60 2.60 2.22 1.97	(g/L) 0.098 0.095 0.091 0.091 0.091 0.092
Time DTW (feet) D655 12.35 0700 12.67 0705 13.20 0710 13.45 0715 13.65	(°C) 16,30 15,72 15.00 14.40 14.02	7.69 7.69 7.61 7.53 7.49	(mV) 93 95 96 100 102	(mS/cm) 0.151 0.140 0.140 0.141 0.141	(NTU) E30.9 43.73 42.7 34.8 73.4 13.	(mg/L) 5.65 5.12 3.60 2.60 2.22	(g/L) 0.098 0.095 0.091 0.091 0.091
Time         DTW           (feet)         0655           0700         12.35           0700         12.67           0705         13.20           0710         13.45           0715         13.65           0720         13.76	(°C) 16,30 15,72 15,00 14,40 14,40 14,02 13,72	7.69 7.69 7.61 7.61 7.61 7.63 7.49 7.49	(mV) 93 95 96 100 102 102	(mS/cm) 0.151 0.146 0.140 0.141 0.141 0.140 0.142	(NTU) 50.9 43.3 42.7 36.8 36.9	(mg/L) 5.65 5.12 3.60 2.60 2.22 1.97	(g/L) 0.098 0.095 0.091 0.091 0.091 0.092
Time         DTW           (feet)         0655           0700         12.35           0700         12.67           0705         13.20           0710         13.45           0715         13.65           0720         13.76	(°C) 16,30 15,72 15,00 14,40 14,40 14,02 13,72	7.69 7.69 7.61 7.61 7.61 7.63 7.49 7.49	(mV) 93 95 96 100 102 102	(mS/cm) 0.151 0.146 0.140 0.141 0.141 0.140 0.142	(NTU) 50.9 43.3 42.7 36.8 36.9	(mg/L) 5.65 5.12 3.60 2.60 2.22 1.97	(g/L) 0.098 0.095 0.091 0.091 0.091 0.092
Time         DTW           (feet)         0655           0700         12.35           0700         12.67           0705         13.20           0710         13.45           0715         13.65           0720         13.76	(°C) 16,30 15,72 15,00 14,40 14,40 14,02 13,72	7.69 7.69 7.61 7.61 7.61 7.49 7.49 7.44	(mV) 93 95 96 100 102 102	(mS/cm) 0.151 0.146 0.140 0.141 0.141 0.140 0.142	(NTU) 50.9 43.3 42.7 36.8 36.9	(mg/L) 5.65 5.12 3.60 2.60 2.22 1.97	(g/L) 0.098 0.095 0.091 0.091 0.091 0.092
Time         DTW           (feet)         0655           0700         12.35           0700         12.67           0705         13.20           0710         13.45           0715         13.65           0720         13.76	(°C) 16,30 15,72 15,00 14,40 14,40 14,02 13,72	7.69 7.69 7.61 7.61 7.61 7.49 7.49 7.44	(mV) 93 95 96 100 102 102	(mS/cm) 0.151 0.146 0.140 0.141 0.141 0.140 0.142	(NTU) 50.9 43.3 42.7 36.8 36.9	(mg/L) 5.65 5.12 3.60 2.60 2.22 1.97	(g/L) 0.098 0.095 0.091 0.091 0.091 0.092
Time         DTW           (feet)         P655           P00         12.35           0700         12.67           0705         13.20           0710         13.45           0715         13.65           0720         13.76           0725         13.20	(°C) 16,30 15,72 15,00 14,40 14,40 14,02 13,72	7.69 7.69 7.61 7.61 7.61 7.49 7.49 7.44	(mV) 93 95 96 100 102 102	(mS/cm) 0.151 0.146 0.140 0.141 0.141 0.140 0.142	(NTU) 50.9 43.3 42.7 36.8 36.9	(mg/L) 5.65 5.12 3.60 2.60 2.22 1.97	(g/L) 0.098 0.095 0.091 0.091 0.091 0.092
Time         DTW           (feet)         0655           0700         12.35           0700         12.67           0705         13.20           0710         13.45           0715         13.65           0720         13.76	(°C) 16,30 15,72 15,00 14,40 14,40 14,02 13,72	7.69 7.69 7.61 7.61 7.61 7.49 7.49 7.44	(mV) 93 95 96 100 102 102	(mS/cm) 0.151 0.146 0.140 0.141 0.141 0.140 0.142	(NTU) 50.9 43.3 42.7 36.8 36.9	(mg/L) 5.65 5.12 3.60 2.60 2.22 1.97	(g/L) 0.098 0.095 0.091 0.091 0.091 0.092
Time         DTW           (feet)         D655           D700         12.67           0705         13.20           0710         13.45           0715         13.65           0720         13.76           0725         13.20	(°C) 16,30 15,72 15.00 14.40 14.40 14.02 13.72 13.72 13.50	7.69 7.69 7.61 7.61 7.63 7.49 7.49 7.44 7.44	(mV) 93 95 96 100 102 102	(mS/cm) 0.151 0.146 0.140 0.141 0.141 0.140 0.142	(NTU) 50.9 43.3 42.7 36.8 36.9 30.1	(mg/L) 5.65 5.12 3.60 2.60 2.22 1.97 1.97 1.88	(g/L) 0.098 0.095 0.091 0.091 0.091 0.092 0.091
Time         DTW           (feet)         D655           D700         12.55           0700         12.67           0705         13.20           0710         13.45           0715         13.65           0720         13.76           0725         13.20	(°C) 16,30 15.72 15.00 14.40 14.02 13.72 13.50 	7.69 7.42 7.49 7.49 7.44 7.44 7.44	(mV) 93 95 96 100 102 102	(mS/cm) 0.151 0.146 0.140 0.141 0.141 0.140 0.142	(NTU) 50.9 43.3 42.7 36.8 36.9 36.9 30.1	(mg/L) 5.65 5.12 3.60 2.60 2.22 1.97 1.97 1.08	(g/L) 0.098 0.095 0.091 0.091 0.092 0.091
Time         DTW           (feet)         D655           D700         12.55           0700         12.67           0705         13.20           0710         13.45           0715         13.65           0720         13.76           0725         13.20           0726         13.20           0727         13.20           0728         10.20 <td>(°C) 16,30 15.72 15.00 14.40 14.40 14.02 13.72 13.72 13.50 SVOC P/ VOC'S B</td> <td>7.69 7.69 7.61 7.53 7.49 7.44 7.44 7.44 7.40</td> <td>(mV) 93 95 96 100 102 102</td> <td>(mS/cm) 0.151 0.146 0.140 0.141 0.141 0.140 0.142</td> <td>(NTU) 50.9 43.3 42.7 36.8 34.9 36.9 30.1 2-1 liter amb 3-40 ml via</td> <td><math display="block">(mg/L) = \frac{5.65}{5.12} = \frac{3.60}{2.60} = \frac{2.60}{2.22} = \frac{1.97}{1.97} = \frac{1.93}{1.03} = \frac{1.03}{1.03} = 1</math></td> <td>(g/L) 0.098 0.098 0.091 0.091 0.092 0.092 0.091</td>	(°C) 16,30 15.72 15.00 14.40 14.40 14.02 13.72 13.72 13.50 SVOC P/ VOC'S B	7.69 7.69 7.61 7.53 7.49 7.44 7.44 7.44 7.40	(mV) 93 95 96 100 102 102	(mS/cm) 0.151 0.146 0.140 0.141 0.141 0.140 0.142	(NTU) 50.9 43.3 42.7 36.8 34.9 36.9 30.1 2-1 liter amb 3-40 ml via	$(mg/L) = \frac{5.65}{5.12} = \frac{3.60}{2.60} = \frac{2.60}{2.22} = \frac{1.97}{1.97} = \frac{1.93}{1.03} = \frac{1.03}{1.03} = 1$	(g/L) 0.098 0.098 0.091 0.091 0.092 0.092 0.091
Time         DTW           (feet)         D055         12.35           0700         12.67           0700         12.67           0700         13.20           0710         13.45           0710         13.45           0715         13.20           0710         13.45           0710         13.76           0720         13.76           0725         13.20           0725         13.20           0725         13.20           0725         13.20           0725         13.20           0725         13.20           0725         13.20           0725         13.20           0725         13.20           0725         13.20           0725         13.20           0725         13.20           0725         13.20           0725         13.20           0725         13.20           0725         13.20           0725         13.20           0725         13.20           0725         13.20           0726         13.20           0727	(°C) 16,30 15,72 15.00 14.40 14.02 13.72 13.72 13.50 SVOC P/ VOC's B' Cyanid	7-69 7-62 7-61 7-53 7.49 7.49 7.49 7.49 7.49 7.49 7.49 7.49	(mV) 93 95 96 100 102 102	(mS/cm) 0.151 0.146 0.140 0.141 0.141 0.140 0.142	(NTU) <u>FO</u> .9 <u>43.3</u> <u>42.7</u> <u>36.8</u> <u>36.9</u> <u>36.9</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u> <u>30.1</u>	(mg/L) $5.65$ $5.12$ $3.60$ $2.60$ $2.22$ $1.97$ $1.97$ $1.03$ ers Yes stic Yes	(g/L) 0.098 0.098 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 No No No
Time         DTW           (feet)         D655           D700         12.55           0700         12.67           0705         13.20           0710         13.45           0715         13.65           0720         13.76           0725         13.20           0726         13.20           0727         13.20           0728         10.20 <td>(°C) 16,30 15.72 15.00 14.40 14.40 14.02 13.72 13.72 13.50 SVOC P/ VOC'S B</td> <td>7-69 7-62 7-61 7-53 7.49 7.49 7.49 7.49 7.49 7.49 7.49 7.49</td> <td>(mV) 93 95 96 100 102 102</td> <td>(mS/cm) 0.151 0.146 0.140 0.141 0.141 0.140 0.142</td> <td>(NTU) 50.9 43.3 42.7 36.8 34.9 36.9 30.1 2-1 liter amb 3-40 ml via</td> <td>(mg/L) <math display="block">5.65</math> <math display="block">5.12</math> <math display="block">3.60</math> <math display="block">2.60</math> <math display="block">2.22</math> <math display="block">1.97</math> <math display="block">1.97</math> <math display="block">1.03</math> ers Yes stic Yes</td> <td>(g/L) 0.098 0.098 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.0988 0.0988 0.0988 0.0988 0.0988 0.0988 0.0988 0.0988 0</td>	(°C) 16,30 15.72 15.00 14.40 14.40 14.02 13.72 13.72 13.50 SVOC P/ VOC'S B	7-69 7-62 7-61 7-53 7.49 7.49 7.49 7.49 7.49 7.49 7.49 7.49	(mV) 93 95 96 100 102 102	(mS/cm) 0.151 0.146 0.140 0.141 0.141 0.140 0.142	(NTU) 50.9 43.3 42.7 36.8 34.9 36.9 30.1 2-1 liter amb 3-40 ml via	(mg/L) $5.65$ $5.12$ $3.60$ $2.60$ $2.22$ $1.97$ $1.97$ $1.03$ ers Yes stic Yes	(g/L) 0.098 0.098 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.0988 0.0988 0.0988 0.0988 0.0988 0.0988 0.0988 0.0988 0
Time         DTW           0655         12.35           0700         12.67           0700         12.67           0700         13.20           0710         13.45           0715         13.65           0720         13.76           0725         13.90           0726         13.90           0727         13.90           0728         13.90           0729         13.90 <td>(°C) /6,30 /5,72 15.00 14.40 /4.02 /3.72 /3.72 /3.50 SVOC P/ VOC'S B Cyanid Metals</td> <td>7-69 7-62 7-62 7-61 7-61 7-61 7-61 7-69 7-69 7-69 7-69 7-69 7-69 7-69 7-69</td> <td>(mV) 93 95 96 100 102 102</td> <td>(mS/cm) 0.151 0.146 0.140 0.141 0.140 0.142 0.141</td> <td>(NTU) 50.9 43.3 42.7 36.8 36.9 36.9 30.1 30.1 2 - 1 liter amb 3 - 40 ml via 1 - 250 ml plas 1 - 250 ml plas</td> <td>(mg/L) <math display="block">5.65</math> <math display="block">5.12</math> <math display="block">3.60</math> <math display="block">2.60</math> <math display="block">2.22</math> <math display="block">1.97</math> <math display="block">1.97</math> <math display="block">1.03</math> ers Yes stic Yes</td> <td>(g/L) 0.098 0.098 0.091 0.091 0.091 0.092 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091</td>	(°C) /6,30 /5,72 15.00 14.40 /4.02 /3.72 /3.72 /3.50 SVOC P/ VOC'S B Cyanid Metals	7-69 7-62 7-62 7-61 7-61 7-61 7-61 7-69 7-69 7-69 7-69 7-69 7-69 7-69 7-69	(mV) 93 95 96 100 102 102	(mS/cm) 0.151 0.146 0.140 0.141 0.140 0.142 0.141	(NTU) 50.9 43.3 42.7 36.8 36.9 36.9 30.1 30.1 2 - 1 liter amb 3 - 40 ml via 1 - 250 ml plas 1 - 250 ml plas	(mg/L) $5.65$ $5.12$ $3.60$ $2.60$ $2.22$ $1.97$ $1.97$ $1.03$ ers Yes stic Yes	(g/L) 0.098 0.098 0.091 0.091 0.091 0.092 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091 0.091
Time         DTW           0655         12.35           0700         12.47           0705         13.20           0710         13.45           0715         13.65           0720         13.76           0725         13.20           0710         13.45           0720         13.76           0725         13.20           0725         13.20           0725         13.20           0725         13.20           0725         13.20           0725         13.20           0725         13.20           0725         13.20           0725         13.20           0725         13.20           0725         13.20           0725         13.20           0725         13.20           0725         13.20           0725         13.20           0725         13.20           0725         13.20           0725         13.20           0726         13.20           0727         13.20           0728         13.20           0729         13.20 <td>(°C) /(6,30 /5.72 15.00 14.40 14.40 14.02 (3.72 13.50 SVOC P/ VOC's B' Cyanid Metals -0918 Dup</td> <td>7-69 7-62 7-62 7-61 7-53 7.49 7.49 7.49 7.49 7.49 7.49 7.49 7.49</td> <td>(mV) 93 95 96 100 107 107</td> <td>(mS/cm) 0.151 0.146 0.140 0.141 0.140 0.142 0.141</td> <td>(NTU) 50.9 43.3 42.7 36.8 34.9 34.9 30.1 30.1 2 - 1 liter amb 3 - 40 ml via 1 - 250 ml plas 1 - 250 ml plas 1 - 250 ml plas</td> <td>(mg/L) <math display="block">5.65</math> <math display="block">3.60</math> <math display="block">2.60</math> <math display="block">2.22</math> <math display="block">1.97</math> <math display="block">1.97</math> <math display="block">1.98</math> ers Yes stic Yes stic Yes</td> <td>(g/L) 0.098 0.098 0.091 0.091 0.092 0.092 0.091 0.092 0.091 0.092 0.091 0.092 0.091 0.092 0.092 0.091 0.092 0.092 0.092 0.092 0.092 0.092 0.092 0.092 0.092 0.092 0.093 0.</td>	(°C) /(6,30 /5.72 15.00 14.40 14.40 14.02 (3.72 13.50 SVOC P/ VOC's B' Cyanid Metals -0918 Dup	7-69 7-62 7-62 7-61 7-53 7.49 7.49 7.49 7.49 7.49 7.49 7.49 7.49	(mV) 93 95 96 100 107 107	(mS/cm) 0.151 0.146 0.140 0.141 0.140 0.142 0.141	(NTU) 50.9 43.3 42.7 36.8 34.9 34.9 30.1 30.1 2 - 1 liter amb 3 - 40 ml via 1 - 250 ml plas 1 - 250 ml plas 1 - 250 ml plas	(mg/L) $5.65$ $3.60$ $2.60$ $2.22$ $1.97$ $1.97$ $1.98$ ers Yes stic Yes stic Yes	(g/L) 0.098 0.098 0.091 0.091 0.092 0.092 0.091 0.092 0.091 0.092 0.091 0.092 0.091 0.092 0.092 0.091 0.092 0.092 0.092 0.092 0.092 0.092 0.092 0.092 0.092 0.092 0.093 0.
Time         DTW           0655         12.35           0700         12.67           0700         12.67           0700         13.20           0710         13.45           0710         13.45           0710         13.45           0710         13.45           0710         13.76           0710         13.76           0720         13.76           0720         13.76           0725         13.20           0725         13.20           0725         13.20           0725         13.20           0725         13.20           0725         13.20           0725         13.20           0725         13.20           0725         13.20           0725         13.20           0725         13.20           0725         13.20           EPA SW-846 Method 8270           EPA SW-846 Method 335.4           EPA Method 200.7           Sample ID:         LTMW-D02           Sample Time:         072	(°C) /(6,30 /5.72 15.00 14.40 14.40 14.02 (3.72 13.50 SVOC P/ VOC's B' Cyanid Metals -0918 Dup	7-69 7-62 7-62 7-61 7-53 7.49 7.49 7.49 7.49 7.49 7.49 7.49 7.49	(mV) 93 96 100 102 106 107	(mS/cm) 0.151 0.146 0.140 0.141 0.140 0.142 0.141	(NTU) 50.9 43.3 42.7 36.8 34.9 36.9 30.1 30.1 2-1 liter amb 3-40 ml via 1-250 ml plas 1-250 ml plas 1-250 ml plas Drop-co	(mg/L) 5.65 5.12 3.60 2.60 2.22 1.97 1.97 1.93 1.97 1.93 I.94 I.94	(g/L) 0.098 0.098 0.091 0.091 0.091 0.092 0.091 0.092 0.091 0.092 0.091 0.092 0.091 0.092 0.091 0.092 0.091 0.092 0.091 0.092 0.091 0.092 0.091 0.092 0.091 0.092 0.093 0.
Time         DTW           0655         12.35           0700         12.47           0705         13.20           0710         13.45           0715         13.20           0710         13.45           0715         13.20           0715         13.45           0715         13.76           0725         13.76           0725         13.90           1         13.76           0725         13.90           1         13.76           0725         13.90           1         13.76           0725         13.90           1         13.76           0725         13.90           1         13.90           1         13.90           1         13.90           1         13.90           1         13.90           1         13.90           1         13.90           1         13.90           1         13.90           1         13.90           1         13.90           1         13.90           1         13.90<	(°C) /(6,30 /5.72 15.00 14.40 14.40 14.02 (3.72 13.50 SVOC P/ VOC's B' Cyanid Metals -0918 Dup	7-69 7-62 7-62 7-61 7-53 7.49 7.49 7.49 7.49 7.49 7.49 7.49 7.49	(mV) 93 96 100 102 106 107	(mS/cm) 0.151 0.146 0.140 0.141 0.140 0.142 0.141	(NTU) 50.9 43.3 42.7 36.8 34.9 34.9 30.1 30.1 2 - 1 liter amb 3 - 40 ml via 1 - 250 ml plas 1 - 250 ml plas 1 - 250 ml plas	(mg/L) $5.65$ $3.60$ $2.60$ $2.22$ $1.97$ $1.97$ $1.03$ ers Yes stic Yes stic Yes stic Yes stic Yes	(g/L) 0.098 0.098 0.091 0.091 0.091 0.092 0.091 0.092 0.091 0.092 0.091 0.092 0.091 0.092 0.092 0.091 0.092 0.091 0.092 0.092 0.092 0.093 1 0.092 0.093 1 0.092 0.094 1 0.092 0.094 1 0.092 0.094 1 0.092 0.094 1 0.092 0.094 1 0.092 0.094 1 0.092 0.094 1 0.092 0.094 1 0.092 0.094 1 0.092 0.094 1 0.092 0.094 1 0.092 0.094 1 0.092 0.094 1 0.00

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	<u> </u>				aliali	2	
Sampling Personnel:	PO			Date:	9 [13]]		
Job Number: 06-03040-13	4400-221			Weather:	650-0	10205	
Well Id. LTMW-S02				Time In:	0745	Time Out:	
				<u> </u>		·····	
Well Information						<u> </u>	57
			Other	Well Type:			tick-Up
Depth to Water:	(feet)	0.36		Well Locked		Yes	No
Depth to Bottom:	(feet)	17.98		Measuring Pe	5	Yes	No
Depth to Product:	(feet)	NP		Well Materi	···· /		
Length of Water Column:	(feet)	7.62		Well Diame	ter: 1"	2" \Othe	er:
Volume of Water in Well:	(gal)	121		Comments:			
Three Weil Volumes:	(gal)	3.65		····	- · · · · · · · · · · · · · · · · · · ·		<u> </u>
							<u> </u>
				·····			
Purging Information	-					Conversion F	actors
		Peristaltic		os Pump	1.754	1" ID 2" ID	4" ID 6" ID
Purging Method:	Bailer	Stainless St.		ethylene	gal/ft. of		
Tubing/Bailer Material:	Teflon Bailer	Peristaltic		os Pump	water	0.04 0.16	0.66 1.47
Sampling Method: Average Pumping Rate:						on=3.785L=3785m	·· · ·
Duration of Pumping:	(min)	30					
Total Volume Removed:			d well go dry?	Yes No	V		
Horiba U-52 Water Quality	vieter Used?	Yes					
							TDO
Time DTW	Temp	pН	ORP	Conductivity	Turbidity	DO (mm/l)	TDS
(feet)	(°C)		(mV) 79	(mS/cm) 0.565	(NTU) (4:5	(mg/L) 2.14	(g/L) 0.363
0750 10.55	14.51	6.99	-1391	0.570	17.4	1.17	0.364
0756 10.60	14.52	6.63	-13-1	0.541	14.3	0.94	0.346
0800 10.61	14.58	6.60	-148	6.534	17.8	0.87	0342
0805 10.65	14.53	6.60	-149	0.530	15.5	0.82	0,339
0310 10.65	14.49	6.59	-150	0.526	14.8	0.76	0,337
0820	4.47	6.60	-152	0.524	14.60	023	0:336
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			· · · ·			<u> </u>	
Sampling Information:							
Sampling Information:			L	<u>.</u>			
	0 SVOC F	PAH's			2 - 1 liter amb	ers Yes	
EPA SW-846 Method 827 EPA SW-846 Method 827					2 - 1 liter amb 3 - 40 ml via		
EPA SW-846 Method 827		BTEX	L			ls Yes	
EPA SW-846 Method 827 EPA SW-846 Method 826	0 VOC's E	BTEX de			3 - 40 ml via	ls Yes stic Yes	
EPA SW-846 Method 827 EPA SW-846 Method 826 EPA Method 335.4	0 VOC's E Cyani	BTEX de			3 - 40 ml via 1 - 250 ml pla	ls Yes stic Yes	
EPA SW-846 Method 827 EPA SW-846 Method 826 EPA Method 335.4	0 VOC's E Cyani Meta	BTEX de	Yes No 🔀		3 - 40 ml via 1 - 250 ml pla 1 - 250 ml pla 1 - 250 ml pla	ls Yes stic Yes stic Yes Pace Courier Pick	
EPA SW-846 Method 827 EPA SW-846 Method 826 EPA Method 335.4 EPA Method 200.7	0 VOC's E Cyani Meta <b>2-0918</b> Du	BTEX de Is	Yes No X	Sł	3 - 40 ml via 1 - 250 ml pla 1 - 250 ml pla 1 - 250 ml pla	ls Yes stic Yes stic Yes	
EPA SW-846 Method 827 EPA SW-846 Method 826 EPA Method 335.4 EPA Method 200.7 Sample ID: LTMW-S0 Sample Time: i902	0 VOC's E Cyani Meta <b>2-0918</b> Du	BTEX de ls plicate?		St	3 - 40 ml via 1 - 250 ml plas 1 - 250 ml plas nipped: P Drop-c	ls Yes stic Yes stic Yes Pace Courier Pick off Albany Service	No No No e Center
EPA SW-846 Method 827 EPA SW-846 Method 826 EPA Method 335.4 EPA Method 200.7 Sample ID: LTMW-S0	0 VOC's E Cyani Meta <b>2-0918</b> Du	BTEX de ls plicate?		Sr	3 - 40 ml via 1 - 250 ml pla 1 - 250 ml pla 1 - 250 ml pla	ls Yes stic Yes stic Yes Pace Courier Pick	No No No e Center

<u>`</u>>

Sampling Per		/				1 al 1	Ø	
	sonnel:	د			Date: 7	13/16	)	
Job Number:	06-03040-13	4400-221			Weather: PC			
Well Id.	LTMW-D03				Time In: 09:40 Time Out: 10:25			
r								
Well Inf	ormation							<b>→</b>
			TOC	Other	Well Type:		shmount Stick-	-UpX
Depth to Wate		(feet)	5.48		Well Locke		Yes	No
Depth to Botto Depth to Proc		(feet) (feet)	40.73		Weasuring F Well Mater	oint Marked:	Yes X	No
Length of Wa			35.25		Well Diame		SS Other: 2" Other:	
Volume of Wa			5.64		Comments			
Three Well Ve			e.92_			•		
		······································		·				
			· · · · ·		····			
Purging I	nformation	_					· · · · · · · · · · · · · · · · · · ·	
							Conversion Facto	ors
Purging Meth		Bailer	Peristaltic	Grund	fos Pump	gal/ft.	1" ID 2" ID 4"	ID 6" ID
Tubing/Bailer		Teflon	i		yethylene	of		
Sampling Met		Bailer		Grund	fos Pump	water		
Average Pum			200			1 gal	lon=3.785L=3785mL=13	37cu. feet
Duration of Pi Total Volume		(min)	30	id wall an day				
	·······	(gal)		id well go dry?	Yes No	$\mathbf{A}$		
Horiba U-52 \	Nater Quality N	/leter Used?	Yes					
Time	DTW	Temp	рН	ORP	Conductivity	Turbidity	DO	TDS
	(feet)	(°C)		(mV)	(mS/cm)	(NTU)	(mg/L)	(g/L)
00.00			/					
09:45	6.47	18.61	7.26	-199	0.615	.3.5	2.13 0.	386
09:47	6.47 7.22	18.61	8.02	-244	0.411	3.5	$\begin{array}{c} 2.13 \\ 1.34 \end{array}$	
09:55	6.47 7.22 7.67	18-41 18-40 18-28	8.02 8.39	-244 -223	0-411	3.5	2.13 0. 1.34 0 1.25 0	386 267 X-E
0955 1010	6.47 7.22 7.67 8.04	18.61 18.40 18.28 16.13	8.02 8.39 8.44	-244 -223 -204	0.411 0.406 0.724	.3.5	2.13 0. 1.34 0 1.25 0 1.14 0.	386 267 X E 469
09:35 10:00 10:05	6.47 7.22 7.67 8.06 8.06 8.33	18-41 18-40 18-28	8.02 8.39 6.44 7.30	-244 -223 -204 -204	0-411 0-406 0-724 0-948	3.5	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	386 267 X-E
09:35 10:00 10:05 10:10	6.47 7.22 7.67 6.04 6.33 6.90	18:41 18:40 18:28 18:28 18:13 18:13 18:15 18:30	8.02 8.39 8.44	-244 -223 -204 -204 -204 -219	0-411 0-406 0-724 0-848 0-879		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	386 267 769 749 549 549 549
09:35 10:00 10:05	6.47 7.22 7.67 8.06 8.06 8.33	18.61 18.40 10.28 16.13 18.15	8.02 8.39 6.44 7.30	-244 -223 -204 -204	0-411 0-406 0-724 0-948		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	386 267 267 269 469 514
09:35 10:00 10:05 10:10	6.47 7.22 7.67 6.04 6.33 6.90	18:41 18:40 18:28 18:28 18:13 18:13 18:15 18:30	8.02 8.39 6.44 7.30	-244 -223 -204 -204 -204 -219	0-411 0-406 0-724 0-848 0-879		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	386 267 769 749 549 549 549
09:35 10:00 10:05 10:10	6.47 7.22 7.67 6.04 6.33 6.90	18:41 18:40 18:28 18:28 18:13 18:13 18:15 18:30	8.02 8.39 6.44 7.30	-244 -223 -204 -204 -204 -219	0-411 0-406 0-724 0-848 0-879		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	386 267 267 269 544 544 543
09:35 10:00 10:05 10:10	6.47 7.22 7.67 6.04 6.33 6.90	18:41 18:40 18:28 18:28 18:13 18:13 18:15 18:30	8.02 8.39 6.44 7.30	-244 -223 -204 -204 -204 -219	0-411 0-406 0-724 0-848 0-879		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	386 267 267 269 544 544 543
09:35 10:00 10:05 10:10	6.47 7.22 7.67 6.04 6.33 6.90	18:41 18:40 18:28 18:28 18:13 18:13 18:15 18:30	8.02 8.39 6.44 7.30	-244 -223 -204 -204 -204 -219	0-411 0-406 0-724 0-848 0-879		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	386 267 267 269 544 544 543
09:35 10:00 10:05 10:10	6.47 7.67 8.00 8.33 8.60 8.67	18:41 18:40 18:28 18:28 18:13 18:13 18:15 18:30	8.02 8.39 6.44 7.30	-244 -223 -204 -204 -204 -219	0-411 0-406 0-724 0-848 0-879		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	386 267 267 269 544 544 543
09:55 10:00 10:05 10:10 10-10	6.47 7.67 8.00 8.33 8.60 8.67	18:41 18:40 18:28 18:28 18:13 18:13 18:15 18:30	8.02 8.39 6.44 7.30	-244 -223 -204 -204 -204 -219	0-411 0-406 0-724 0-848 0-879		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	386 267 267 269 544 544 543
09:55 10:00 10:05 10:10 10:10 Sampling Int	6.47 7.67 8.00 8.33 8.60 8.67	18:41 18:40 18:28 18:28 18:13 18:13 18:15 18:30	8.02 8.39 8.44 7.30 7.17 7.17	-244 -223 -204 -204 -204 -219	0-411 0-406 0-724 0-848 0-879		$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	386 267 267 269 544 544 543
09.55 70.00 70:05 70:10 10-10 10-10 Sampling Int EPA SW-8	6.47 7.67 6.33 6.33 6.40 6.47	18.41 18.40 18.28 18.13 18.13 18.30 18.30	8.02 8.39 8.44 7.30 7.17 7.17	-244 -223 -204 -204 -204 -219	0-411 0-406 0-724 0-848 0-879	3.5 3.7 3.7 3.7 3.7 3.7 7 7 7 7 7 7 7 7 7 7	<i>Q</i> .13 0 1.3¥ 0 1.3¥ 0 1.05 0 1.14 0 1.00 0 1.00 0 1.00 0 1.00 0	386 267 267 249 544 553 575
Sampling Int EPA SW-8 EPA SW-8 EPA SW-8	6.47 7.22 7.67 6.33 6.00 6.33 6.00 6.67 6.67 6.67 6.67 6.67 6.67 6.67	18.41 18.40 18.28 18.13 18.13 18.30 18.39	8.02 8.39 6.44 7.30 7.17 7.17 7.17 8.17	-244 -223 -204 -204 -204 -219	0-411 0-406 0-724 0-848 0-879	3.5 3.2 3.3 3.4 3.5 3.4 3.2	<i>Q.1.3 O</i> <i>J.3¥ O</i> <i>J.3¥ O</i> <i>J.14 O</i> <i>J.14 O</i> <i>J.00 O</i> <i>J.00 O</i> <i>J.00 O</i> <i>J.00 O</i> <i>J.00 O</i> <i>J.00 O</i>	386 267 267 249 514 514 525 525
Sampling Int EPA SW-8 EPA SW-8 EPA SW-8	6.47 7.22 7.67 6.33 8.60 8.67 8.67 6.67 6.67 46 Method 8270 46 Method 8260	18.41 18.40 18.28 18.13 18.13 18.37 18.37	8.02 8.39 6.44 7.30 7.17 7.17 7.17 7.17 7.17 0 AH's BTEX de	-244 -223 -204 -204 -204 -219	0-411 0-406 0-724 0-848 0-879	2 - 1 liter amb 3 - 40 ml via	Q.13       Q.         J.34       Q.         J.34       Q.         J.35       Q.         J.16       Q.         J.16       Q.         J.16       Q.         J.16       Q.         J.16       Q.         J.16       Q.         J.03       Q.         J.00       Q.         J.100 <td< td=""><td>386 267 267 249 514 514 514 525 575</td></td<>	386 267 267 249 514 514 514 525 575
Sampling Int EPA SW-8 EPA SW-8 EPA SW-8 EPA SW-8 EPA SW-8 EPA SW-8	6. 47 7-22 7.67 6.33 8.00 8.67 8.67 6.67 6.67 6.67 6.67 6.67 6.67	/8-61 18-70 18-70 18-73 18-73 18-33 18-39 18-39 18-39	8.02 8.39 6.44 7.30 7.17 7.17 7.17 7.17 8 BTEX de Is	-244 -223 -204 -222 -219 -222	0-411 0-406 0-724 0-848 0-879 0-879	2 - 1 liter amb 3 - 40 ml via 1 - 250 ml plas	Q.1.3       Q.         J.34       Q.         J.34       Q.         J.16       Q.         J.00       Q.         J.00 <td< td=""><td>386 267 267 249 514 514 514 525 575</td></td<>	386 267 267 249 514 514 514 525 575
07.55         10.00         10.05	6. 47 7-22 7. 67 6. 33 8-60 8-67 8-67 8-67 6 - 67 8-67 8-67 8-67 8-67 8-67 8-67 8-67 8-		8.02 8.37 6.44 7.30 7.17 7.17 7.17 7.17 7.17 8 3TEX de is	- 244 - 223 - 204 - 222 - 219 - 222	0-411 0-406 0-724 0-848 0-879 0-879	2 - 1 liter amb 3 - 40 ml via 1 - 250 ml plas 1 - 250 ml plas	Q.13       Q.         J.34       Q.         J.34       Q.         J.34       Q.         J.34       Q.         J.34       Q.         J.14       Q.         J.14       Q.         J.14       Q.         J.14       Q.         J.14       Q.         J.14       Q.         J.10       Q.         J.00       Q.         J.100 <td< td=""><td>386 34 34 34 34 34 34 34 34 34 34</td></td<>	386 34 34 34 34 34 34 34 34 34 34
Sampling Int EPA SW-8 EPA SW-8 EPA SW-8 EPA SW-8 EPA SW-8 EPA SW-8	6. 47 7-22 7.67 6.33 8.00 8.67 8.67 6.67 6.67 6.67 6.67 6.67 6.67		8       3         8       3         7       3         7       7         7	-244 -223 -204 -222 -219 -222	0-411 0-406 0-724 0-848 0-879 0-879	2 - 1 liter amb 3 - 40 ml via 1 - 250 ml plas 1 - 250 ml plas	Q.1.3       Q.         J.34       Q.         J.34       Q.         J.16       Q.         J.00       Q.         J.00 <td< td=""><td>386 34 34 34 34 34 34 34 34 34 34</td></td<>	386 34 34 34 34 34 34 34 34 34 34
07.55         10.00         10.05	6. 47 7-22 7.67 6.33 8.60 8.67 8.67 8.67 8.67 8.67 8.67 8.67 8.67		8.02 8.37 6.44 7.30 7.17 7.17 7.17 7.17 7.17 8 3TEX de is	- 244 - 223 - 204 - 222 - 219 - 222	0-411 0-406 0-724 0-879 0-879 0-879	2 - 1 liter amb 3 - 40 ml via 1 - 250 ml plas 1 - 250 ml plas	Q.13       Q.         J.34       Q.         J.34       Q.         J.34       Q.         J.34       Q.         J.34       Q.         J.14       Q.         J.14       Q.         J.14       Q.         J.14       Q.         J.14       Q.         J.14       Q.         J.10       Q.         J.00       Q.         J.100 <td< td=""><td>386 386 346 346 346 357 357 357 357 357 357 357 357</td></td<>	386 386 346 346 346 357 357 357 357 357 357 357 357
Sampling Inf EPA SW-8 EPA W EPA W Sample ID: Sample Time:	6. 47 7-22 7.67 6.33 8.60 8.67 8.67 8.67 8.67 8.67 8.67 8.67 8.67		8.02 8.37 6.44 7.30 7.17 7.17 7.17 7.17 7.17 8 3TEX de is	- 244 - 223 - 204 - 222 - 219 - 222	0-411 0-406 0-724 0-879 0-879 0-879	2 - 1 liter amb 3 - 4 3 - 2 3 - 3 3 - 4 3 - 2 3 - 2 5 0 ml plas 1 - 250 ml plas 1 - 250 ml plas 1 - 250 ml plas	ers Yes is Yes stic Yes race Courier Pickup of Albany Service Cen	386 386 34 34 34 34 34 34 34 34 34 34

	Date: 9//3/18
Sampling Personnel:	
Job Number: 06-03040-134400-221	
Well Id. LTMW-S03	Time In: 10:25 70 Time Out: //:10
Yon to.	
Well Information	
TOC Other	Well Type: Flushmount Stick-Up
Depth to Water: (feet) 4.18	Well Locked: Yes No
Depth to Bottom: (feet) 13.70	Measuring Point Marked: Yes No
Depth to Product: (feet)	Well Material: PVC SS Other:
Length of Water Column: (feet) 9-5-2	Well Diameter:         1" 2" Other:
Volume of Water in Well: (gal) 1-52	Comments:
Three Well Volumes: (gal) 4-56	
Purging Information	Occurring Eastern
	Conversion Factors
Tubing/Bailer Material: Teflon Stainless St. Poly	ethylene of water 0.04 0.16 0.66 1.47
Samping Method.	bs Pump
Average Pumping Rate: (ml/min) 206	1 gailon=3.783E=3783HE=100788.188E
Duration of Pumping: (min) 30	Ver No
Total Volume Removed: (gal) Did well go dry?	
Horiba U-52 Water Quality Meter Used? Yes Vo	
Time DTW Temp pH ORP	Conductivity Turbidity DO TDS
(feet) (°C) (mV)	(mS/cm) (NTU) (mg/L) (g/L)
10:30 4.22 17.88 6.53 -159	0-662 8-7 1-94 0.419
10:35 4.02 18.48 6.35 -168	6567 33 125 0360 0544 3.4 14 0.348
10:40 4.22 18:81 6.35 -170	6.544 3.4 16 6.348
10:45 4.22 19:06 6:36 -172	0.543 3.1 1.17 0.347
12:50- 4.22 19.30 6.41 -175	0.331 01 112 112
10.53 4-22 19.68 6.36 -173	
11:00 V.22 19.69 10.41 -179	0-533 2.8 1.10 0.341
	<u></u>
Sampling Information:	
	2 - 1 liter ambers Yes No
EPA SW-846 Method 8270 SVOC PAH's	3 - 40 ml vials Yes No
EPA SW-846 Method 8260 VOC's BTEX	1 - 250 ml plastic Yes No
EPA Method 335.4 Cyanide	1 - 250 m plastic Yes No
EPA Method 200.7 Metals	
	Shipped: Pace Courier Pickup
Sample ID: LTMW-S03-0918 Duplicate? Yes No Associate No	Drop-off Albany Service Center
Sample Time: MS/MSD? Yes No	
Comments/Notes:	Laboratory: Pace Analytical
	Greensburg, PA

Sampling Per	sonnel: Pf	>		Date: 91318					
Job Number: 06-03040-134400-221					Weather: 65°- OVERCARST				
-		· .							
Well Id. LTMW-504 004					Time In: 0915 Time Out:				
	ormation		···· , · · · , · · · · , ·				· · · · · · · · · · · · · · · · · · ·		
	ormation		тос	Other	Well Type:	Eluz	hmount []		
Depth to Wate	10.02	• •			Stick-Up				
Depth to Water:         (feet)         10.02           Depth to Bottom:         (feet)         -17.2646.36						Well Locked: Yes No Measuring Point Marked: Yes No			
Depth to Prod		(feet)	NP		Well Mater				
Length of Wat	ter Column:	(feet)	56.34		Well Diam	eter: 1"	2" 🛛 Oth	ner:	
Volume of Wa	ater in Well:	(gal)	5.0		Comments	s:			
Three Well Vo	olumes:	(gal)	17.4						
<b></b>	·····				· · · ·				
Purging Ir	nformation								
			<b></b>		LJ		Conversion F		
Purging Metho		Bailer		× 1	fos Pump	gal/ft.	1" ID 2" ID	4" ID 6" ID	
Tubing/Bailer Sampling Met		Teflon Bailer			yethylene	of water	0.04 0.16	0.66 1.47	
Average Pum		(ml/min)	~[v)0			· · · ·	on=3.785L=3785n		
Duration of Pu		(min)	30			i gan	011-3.700L-37001	IL-1337cu. leel	
Total Volume		(gal)		Did well go dry?	Yes No	X			
Horiba LL-52 V	Vater Quality M			s No					
							<u></u>		
<b></b>	<b>N</b>		1						
Time	DTW (feet)	Temp	рН	ORP	Conductivity	Turbidity	DO	TDS	
0920	(feet)	(°C) 13.07	6.83	(mV) -35	(mS/cm) 0.462	(NTU) 0,2-	(mg/L)	(g/L) 0,300	
0925	11.32	12-52	7.22	-87	0,472	0.0	1.33	0.307	
0930	11.38	12.30	7.33	-110	0.473	O.D	0,78	0.307	
0935	11.38	12.24	7.43	-129	0.475	0.0	0,74	0.308	
0940	11.39	12.17	7.45	-135	0,475	0.0	0,72	0.308	
0945	11.42	12.16	7.49	-144	0,473	0.0	0.70	0,308	
0950		12.14	7.50	-146	0.473	0.0	0.70	0.308	
		· · · ·							
					<u>_</u>				
·						: • • • •			
				<u>l</u>			<u> </u>		
								hai	
Sampling Inf	ormation:								
	46 Method 8270	SVOC I				2 - 1 liter ambe		× No	
	46 Method 8260	VOC's				3 - 40 ml vial			
	ethod 335.4 ethod 200 7	Cyan				1 - 250 ml plas			
EPA W	ethod 200.7 ∩∧1-	Meta	us			1 - 250 ml plas	stic Yes		
Sample ID:	/)01 LTMW- <del>30</del> 4-		plicate?	Yes No	1	ipped: Pi	ace Courier Pick		
Sample Time:	D99		S/MSD?	Yes No			ff Albany Service	· · · · · · · · · · · · · · · · · · ·	
L	<b>V</b> + ·				]				
Comments/No	otes:					Laboratory:	Pace Ana	•	
						<u> </u>	Greensbu	irg, PA	

	onnel P	0			Date:	9/13/16	3	
Sampling reisonnoi.					Weather: 65° clouds			
						0830	Time Out:	1910
Well Id.	.TMW- <del>D04</del>		Time In:	0030		0110		
							<u> </u>	·
Well Info			тос 9.35	Other	Well Type Well Lock	•	nmount S Yes	tick-Up No
Depth to Wate Depth to Botto			46.36 1726			Point Marked:	_Yes	No
Depth to Produ		(feet)	NP		Well Mate	erial: PVC	SS_Othe	er:
Length of Wat			1.91		Well Dian	neter: 1"	2" 🔀 Oth	er:
Volume of Wa			.27		Comment	is:		
Three Well Vo	lumes:	(gal)	3.90					
Purging In	nformation					r	Conversion	actors
	· · · · · · · · · · · · · · · · · · ·	r	<b></b> R		_ <b>[]</b>		Conversion F 1" ID 2" ID	actors 4" ID 6" ID
Purging Metho		Bailer	Peristaltic		os Pump	gal/ft.		
Tubing/Bailer		Teflon	Stainless St.		ethylene	of water	0.04 0.16	0.66 1.47
Sampling Met		Bailer	Peristaltic	Grundfo	s Pump	the second se	on=3.785L=3785m	<u> </u>
Average Pum			~100 30			I gain	51-3.765E-67661	E 100100.1001
Duration of Pu		(min)		d well go dry?	Yes			
Total Volume	Removed:	(gal)						
Horiba U-52 V	Water Quality N	leter Used?	Yes				·	
···-	the second se							
Time	DTW	Temp	pН	ORP	Conductivit		DO	TDS
Time	(feet)	(°C).		ORP (mV)	(mS/cm)	(NTU)	(mg/L)	(g/L)
Time		(°C). 14.55	6.51	(mV) دا ٥)	(mS/cm) ひ.557	(NTU) 6.9	(mg/L) 3.05	(g/L) 0:35구
	(feet) 0.90 10.00	(°C). 14.55 14.15	6.51	(mV) 106 -76	(mS/cm) 0.557 0.569	(NTU) 0.9 5 0.4-	(mg/L) 3.05 1.89	(g/L) 0.357 0.362
0835	(feet) 9.90 10.00 10.09	(°C). 14.55 14.15 14.38	6.51 6.30 6.23	(mV) (06 -76 -50	(mS/cm) 0.557 0.569 0.572	(NTU) 6.9 5 0.4 - 0.1	(mg/L) 3.05 1.89 1.35	(g/L) 0.357 0.362 0.366
0835	(feet) 9.90 10.00 10.09 10.11	(°C). 14.55 14.15 14.38 14.41	6.51 6.30 6.23 6.24	(mV) 106 76 50 42	(mS/cm) 0.557 0.569 0.572 0.572	(NTU) 0.9 5 0.4 - 0.1 - 0.0	(mg/L) 3.05 1.89 (.35 (.25	(g/L) 0.357 0.362 0.366 0.366
0835	(feet) 9.90 10.00 10.09 10.11 10.17	(°C). 14.55 14.15 14.38 14.41 14.41 14.46	6.51 6.30 6.23 6.24 6.24	(mV) -106 -76 -76 -50 -42 -31	(mS/cm) 0.557 0.569 0.572 0.572 0.572	(NTU) 0.9 0.4 0.0 0.0	(mg/L) 3.05 1.89 (135 (125 1.10	(g/L) 0.357 0.362 0.366 0.366 0.366
0835 0840 0840 0860 0860 0860 0865 0860	(feet) 9.90 10.00 10.09 10.11 10.17 10.20	(°C). 14.55 14.15 14.38 14.41 14.41 14.41	6:51 6:30 6:23 6:24 6:23 6:22	(mV) 106 76 50 42 31 22	(mS/cm) 0.557 0.565 0.572 0.572 0.572 0.566	(NTU) 6.9 5.0.4 - 0.1 - 0.0 - 0.0 1.0.0	(mg/L) 3.05 1.89 (.35 1.25 1.10 (.03	(g/L) 0.357 0.362 0.366 0.366 0.366 0.369
0835 0840 0845 0850 0850	(feet) 9.90 10.00 10.09 10.11 10.17	(°C). 14.55 14.15 14.38 14.41 14.41 14.46	6.51 6.30 6.23 6.24 6.24	(mV) -106 -76 -76 -50 -42 -31	(mS/cm) 0.557 0.569 0.572 0.572 0.572	(NTU) 6.9 5.0.4 - 0.1 - 0.0 - 0.0 1.0.0	(mg/L) 3.05 1.89 (135 (125 1.10	(g/L) 0.357 0.362 0.366 0.366 0.366
0835 0840 0840 0860 0860 0860 0860	(feet) 9.90 10.00 10.09 10.11 10.17 10.20	(°C). 14.55 14.15 14.38 14.41 14.41 14.41	6:51 6:30 6:23 6:24 6:23 6:22	(mV) 106 76 50 42 31 22	(mS/cm) 0.557 0.565 0.572 0.572 0.572 0.566	(NTU) 6.9 5.0.4 - 0.1 - 0.0 - 0.0 1.0.0	(mg/L) 3.05 1.89 (.35 1.25 1.10 (.03	(g/L) 0.357 0.362 0.366 0.366 0.366 0.369
0835 0840 0840 0860 0860 0860 0860	(feet) 9.90 10.00 10.09 10.11 10.17 10.20	(°C). 14.55 14.15 14.38 14.41 14.41 14.41	6:51 6:30 6:23 6:24 6:23 6:22	(mV) 106 76 50 42 31 22	(mS/cm) 0.557 0.565 0.572 0.572 0.572 0.566	(NTU) 6.9 5.0.4 - 0.1 - 0.0 - 0.0 1.0.0	(mg/L) 3.05 1.89 (.35 1.25 1.10 (.03	(g/L) 0.357 0.362 0.366 0.366 0.366 0.369
0835 0840 0840 0860 0860 0860 0860	(feet) 9.90 10.00 10.09 10.11 10.17 10.20	(°C). 14.55 14.15 14.38 14.41 14.41 14.41	6:51 6:30 6:23 6:24 6:23 6:22	(mV) 106 76 50 42 31 22	(mS/cm) 0.557 0.565 0.572 0.572 0.572 0.566	(NTU) 6.9 5.0.4 - 0.1 - 0.0 - 0.0 1.0.0	(mg/L) 3.05 1.89 (.35 1.25 1.10 (.03	(g/L) 0.357 0.362 0.366 0.366 0.366 0.369
0835 0840 0840 0860 0860 0860 0865 0860	(feet) 9.90 10.00 10.09 10.11 10.17 10.20	(°C). 14.55 14.15 14.38 14.41 14.41 14.41	6:51 6:30 6:23 6:24 6:23 6:22	(mV) 106 76 50 42 31 22	(mS/cm) 0.557 0.565 0.572 0.572 0.572 0.566	(NTU) 6.9 5.0.4 - 0.1 - 0.0 - 0.0 1.0.0	(mg/L) 3.05 1.89 (.35 1.25 1.10 (.03	(g/L) 0.357 0.362 0.366 0.366 0.366 0.369
0835 0840 0840 0850 0850 0855 0900 0900	(feet) 9.90 10.00 10.09 10.11 10.17 10.20 (0.20	(°C). 14.55 14.15 14.38 14.41 14.41 14.41	6:51 6:30 6:23 6:24 6:23 6:22	(mV) 106 76 50 42 31 22	(mS/cm) 0.557 0.565 0.572 0.572 0.572 0.566	(NTU) 6.9 5.0.4 - 0.1 - 0.0 - 0.0 1.0.0	(mg/L) 3.05 1.89 (.35 1.25 1.10 (.03	(g/L) 0.357 0.362 0.366 0.366 0.366 0.369
0835 0840 0840 0860 0860 0860 0860	(feet) 9.90 10.00 10.09 10.11 10.17 10.20 (0.20	(°C). 14.55 14.15 14.38 14.41 14.41 14.41	6:51 6:30 6:23 6:24 6:23 6:22	(mV) 106 76 50 42 31 22	(mS/cm) 0.557 0.565 0.572 0.572 0.572 0.566	(NTU) 6.9 5.0.4 - 0.1 - 0.0 - 0.0 1.0.0	(mg/L) 3.05 1.89 (.35 1.25 1.10 (.03	(g/L) 0.357 0.362 0.366 0.366 0.366 0.369
0835 0840 0840 0850 0055 0900 0900 0905	(feet) 9.90 10.00 10.09 10.11 10.17 10.20 10.20	(°C). 14.55 14.15 14.38 14.41 14.46 14.41 14.49	6:51 6:30 6:23 6:24 6:23 6:22 6:22	(mV) 106 76 50 42 31 22	(mS/cm) 0.557 0.565 0.572 0.572 0.572 0.566	(NTU) 6.9 5.0.4 - 0.1 - 0.0 - 0.0 1.0.0	(mg/L) 3.05 1.89 (135 (125 (125 (.10 (.03 1.25	(g/L) 0.357 0.362 0.366 0.366 0.366 0.369
0835 0840 0840 0850 0850 0900 0900 0905 0905	(feet) 9-90 10.00 10.09 10.11 10.17 10.20 (0.20 10.20	(°C). 14.55 14.15 14.41 14.41 14.45 14.41 14.41 14.49 14.49 14.49	6.51 6.30 6.23 6.24 6.23 6.22 6.23	(mV) 106 76 50 42 31 22	(mS/cm) 0.557 0.565 0.572 0.572 0.572 0.566	(NTU) 0.9 0.4 0.0 0.0 0.0 1.0 1.0 1.0 1.0 1.0	(mg/L) 3.05 1.89 (.35 (.25 (.10 (.03 1.2 (.03 1.2 (.03 1.2 (.03 1.2 (.03 1.2 (.03 1.2 (.03 1.2 (.03 (.05 (.05 (.05 (.05) (.05 (.05) (.05	(g/L) 0.357 0.362 0.366 0.366 0.362 0.355
0835 0840 0840 0860 0860 0860 0860 0860 0860	(feet) 9-90 10.00 10.07 10.17 10.17 10.20 (0.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.20 10.000	(°C). 14.55 14.15 14.41 14.41 14.41 14.41 14.41 14.49 SVOC 1 VOC's	6.51 6.30 6.23 6.24 6.22 6.22 6.23 8.23 8.23 8.23 8.23 8.23 8.23 8.23 8	(mV) 106 76 50 42 31 22	(mS/cm) 0.557 0.565 0.572 0.572 0.572 0.566	(NTU) 0.9 0.4 0.0 0.0 1.0 0.0 1.0 0.0 1.0 0.0 1.0 0.0 1.0 1	$(mg/L) \\ 3.05 \\ 1.89 \\ (.35 \\ 1.25 \\ 1.10 \\ (.03 \\ 1.0 \\ 1$	(g/L) 0.357 0.362 0.366 0.366 0.366 0.369 0.355
0825 0840 0840 0840 0850 0955 0900 0955 0900 0955 0900 0955 0900 0955 0900 0955 0900 0955 0900 0955 EPA SW-8 EPA SW-8 EPA SW-8	(feet) 9-90 10.00 10.07 10.11 10.17 10.20	(°C). 14.55 14.15 14.38 14.41 14.41 14.41 14.41 14.49 0 SVOC 1 0 VOC's Cyan	6.51 6.30 6.23 6.24 6.23 6.22 6.23 6.22 6.23	(mV) 106 76 50 42 31 22	(mS/cm) 0.557 0.565 0.572 0.572 0.572 0.566	(NTU) 0.9 0.4 0.0 0.0 1.0	$(mg/L) \\ 3.05 \\ 1.89 \\ 1.35 \\ 1.25 \\ 1.25 \\ 1.0 \\ 1.$	(g/L) 0.357 0.362 0.366 0.366 0.362 0.362 0.355 0.355
0825 0840 0840 0840 0850 0955 0900 0955 0900 0955 0900 0955 0900 0955 0900 0955 0900 0955 0900 0955 EPA SW-8 EPA SW-8 EPA SW-8	(feet) 9-90 10.00 10.07 10.11 10.17 10.20	(°C). 14.55 14.15 14.41 14.41 14.46 14.41 14.49 14.55 14.49 14	6.51 6.30 6.23 6.24 6.23 6.22 6.23 6.22 6.23	(mV) 106 76 50 42 31 22	(mS/cm) 0.557 0.565 0.572 0.572 0.572 0.566	(NTU) 0.9 0.0 0.0 0.0 1.0 0.0 1.0 0.0 1.0 0.0 1.0 0.0 1.0 1	$(mg/L) \\ 3.05 \\ 1.89 \\ 1.35 \\ 1.25 \\ 1.25 \\ 1.0 \\ 1.$	(g/L) 0.357 0.362 0.366 0.366 0.362 0.362 0.355 0.355
0835 0840 0840 0850 0850 0900 0900 0905 0900 0905 0900 0905 EPA SW-8 EPA SW-8 EPA SW-8 EPA SW-8	(feet) 9-90 10.00 10.09 10.11 10.17 10.20	(°C). 14.55 14.15 14.41 14.41 14.46 14.41 14.41 14.49 14.49 14.41 14.49 14.49 14.41 14.49 14.41 14.43 14.44 14.41 14.45 14.41 14.45 14.41 14.45 14.41 14.45 14.41 14.45 14.41 14.45 14.41 14.45 14.41 14.45 14.41 14.45 14.41 14.45 14.41 14.45 14.	6.5i 6.30 6.23 6.24 6.23 6.22 6.23 PAH's BTEX nide als	(mV) 106 76 50 42 31 22	(mS/cm) 0.557 0.565 0.572 0.572 0.572 0.566	(NTU) 0.9 0.0 0.0 0.0 1.0 0.0 1.0 0.0 1.0 0.0 1.0 0.0 1.0 1	$(mg/L) \\ 3.05 \\ 1.89 \\ 1.35 \\ 1.25 \\ 1.25 \\ 1.0 \\ 1.$	(g/L) 0.357 0.362 0.366 0.366 0.366 0.367 0.355 0.355 0.355 0.355 No ss No No ss No
0835 0840 0840 0860 0860 0955 0900 0900 0905 0905 EPA SW-8 EPA SW-8 EPA SW-8 EPA T EPA T EPA T	(feet) 9.90 10.00 10.07 10.17 10.20 (0.20 10	(°C). 14.55 14.15 14.41 14.44 14.44 14.44 14.44 14.44 14.49 5 5 5 5 5 5 5 5 5 5 5 5 5	PAH's BTEX nide als uplicate?	(mV) 106 76 76 50 42 31 22 16 16	(mS/cm) 0.557 0.565 0.572 0.572 0.572 0.566	(NTU) 0.9 0.0 0.0 0.0 0.0 0.0 1.0.0	$(mg/L) \\ 3.05 \\ 1.89 \\ (.35 \\ 1.25 \\ 1.25 \\ 1.0 \\ 1.$	(g/L) 0.357 0.362 0.366 0.366 0.366 0.366 0.355 0.355 0.355 0.355 No s No s No s No
0835         0840         0840         0850         0850         0850         0850         0900         0900         0905         0900         0905 <t< td=""><td>(feet) 9-90 10.00 10.07 10.17 10.20</td><td><math display="block">\begin{array}{c} (^{\circ}C). \\ \hline 14.55 \\ \hline 14.15 \\ \hline 14.41 \\ \hline 14.46 \\ \hline 14.41 \\ \hline 14.46 \\ \hline 14.41 \\ \hline 14.49 \\ \hline 0 </math></td><td>6.5i 6.30 6.23 6.24 6.23 6.22 6.23 PAH's BTEX nide als</td><td>(mV) 101- 76- 76- 50 4-2 31 27- 110 </td><td>(mS/cm) 0.557 0.565 0.572 0.572 0.572 0.566</td><td>(NTU) 0.9 0.0 0.0 0.0 0.0 0.0 1.0.0</td><td>(mg/L)         3.05         1.89         (.35         (.25         (.03</td><td>(g/L) 0.357 0.362 0.366 0.366 0.366 0.367 0.355 0.355 0.355 No s No s No No s No No s Xup ce Center</td></t<>	(feet) 9-90 10.00 10.07 10.17 10.20	$\begin{array}{c} (^{\circ}C). \\ \hline 14.55 \\ \hline 14.15 \\ \hline 14.41 \\ \hline 14.46 \\ \hline 14.41 \\ \hline 14.46 \\ \hline 14.41 \\ \hline 14.49 \\ \hline 0 $	6.5i 6.30 6.23 6.24 6.23 6.22 6.23 PAH's BTEX nide als	(mV) 101- 76- 76- 50 4-2 31 27- 110 	(mS/cm) 0.557 0.565 0.572 0.572 0.572 0.566	(NTU) 0.9 0.0 0.0 0.0 0.0 0.0 1.0.0	(mg/L)         3.05         1.89         (.35         (.25         (.03	(g/L) 0.357 0.362 0.366 0.366 0.366 0.367 0.355 0.355 0.355 No s No s No No s No No s Xup ce Center
0835 0840 0840 0860 0860 0955 0900 0900 0905 0905 EPA SW-8 EPA SW-8 EPA SW-8 EPA T EPA T EPA T	(feet) 9-90 10.00 10.07 10.17 10.20	(°C). 14.55 14.15 14.41 14.44 14.44 14.44 14.44 14.44 14.49 5 5 5 5 5 5 5 5 5 5 5 5 5	PAH's BTEX nide als uplicate?	(mV) 101- 76- 76- 50 4-2 31 27- 110 	(mS/cm) 0.557 0.565 0.572 0.572 0.572 0.566	(NTU) 0.9 0.0 0.0 0.0 0.0 0.0 1.0.0	(mg/L) 3.05 1.89 (.35 (.25 (.10 (.03) (.03 (.03) (.03 (.03) (.03	(g/L) 0.357 0.362 0.366 0.366 0.366 0.366 0.355 0.355 0.355 0.355 No s No s No s No

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	01.218
Sampling Personnel: PC Date	
JOD NUMBEL 00-03040-134400-221	ather: 3 mm GO
Well Id. LTMW-D05 Time	e In: 12:05 Time Out: 12:50
Well Information TOC Other Wel	I Type: Flushmount Stick-Up
	I Locked: Yes No
Depth to Bottom: (feet) 46.53 Mea	suring Point Marked: Yes No
Depth to Product: (feet) We	Material: PVC SS Other:
Length of Water Column: (neet)	II Diameter: 1" 2" Other: nments:
Volume of Water in Wen. (gai)	aments.
Three Well Volumes: (gal) 17 69	
Purging Information	
	Conversion Factors
Purging Method: Bailer Peristaltic Grundfos Pump	
Tubing/Bailer Material: Teflon Stainless St. Polyethylene Sampling Method: Bailer Peristaltic Grundfos Pump	of water 0.04 0.16 0.66 1.47
Sampling Method.	1 gallon=3.785L=3785mL=1337cu. feet
Average Pumping Rate: (ml/min) 200 Duration of Pumping: (min) 30	
Total Volume Removed: (gal) 7 Did well go dry? Yes	
Horiba U-52 Water Quality Meter Used? Yes No	$\bigcirc$
Time DTW Temp pH ORP Cond	uctivity Turbidity DO TDS
(feet) (°C) (mV) (mS	(NTU) $(mg/L)$ $(g/L)$
12:10 10.20 2002 6.23 9	
12:15 17.08 10 50 10 10	67 1.5 1.01 0.230 65 1.6 1.00 0.237
	64 1-4 0.95 0.230
12:30 15 59 17.43 7.74 -182 0.3	59 1.3 0.94 0.234
5.28 10:43 17.23 7.73 -177 0.3	61 1.9 0.93 6.235
12:40 16-69 17.08 7.73 -(72 6.3)	63 13 0.93 0.236
Sampling Information:	
EPA SW-846 Method 8270 SVOC PAH's	2 - 1 liter ambers Yes No 3 - 40 ml vials Yes No
EPA SW-846 Method 8260 VOC's BTEX	1 - 250 ml plastic Yes No
EPA Method 335.4 Cyanide EPA Method 200 7 Metals	1 - 250 ml plastic Yes No
EPA Method 200.7 Metals	
Sample ID: LTMW-D05-0918 Duplicate? Yes No	Shipped: Pace Courier Pickup
Sample Time: 12:40 MS/MSD? Yes No X	Drop-off Albany Service Center
	Drop-off Albany Service Center Laboratory: Pace Analytical Greensburg, PA

Sampling Personnel: KC	Date: 9/13/160
Job Number: 06-03040-134400-221	Weather: SUNM 730
Well Id. LTMW-S05	Time In: 1/10 Time Out: 12:05
Weil Information 	Well Type: Flushmount Stick-Up
Depth to Water: (feet) 9.66	Well Locked: Yes No
Depth to Bottom: (feet) 16.83	Measuring Point Marked: Yes No
Depth to Product: (feet)	Well Material: PVC SS Other:
Length of Water Column: (feet) 7.15	Well Diameter: 1" 2" Other:
Volume of Water in Well: (gal) / · / 4	Comments:
Three Well Volumes: (gal) 3.43	
Purging Information	Conversion Factors
Purging Method: Bailer Peristaltic Grundfo	
	thylene of
Sampling Method: Bailer Peristaltic Grundfo	
Average Pumping Rate: (ml/min)	1 galjon=3.785L=3785mL=1337cu. feet
Duration of Pumping: (min) 30	
Total Volume Removed: (gal) Did well go dry?	Yes No
Horiba U-52 Water Quality Meter Used? Yes No	-3
Time DTW Temp pH ORP	Conductivity Turbidity DO TDS
(feet) (°C) (mV) $11^{2}25$ $9.95$ $22.73$ $6.46$ $-157$	$(mS/cm) (NTU) (mg/L) (g/L)  \beta + \beta +$
11:30 10.04 19.85 6.10 -77	0.489 2.5 2.44 0.318
11:35 10.07 19.80 6.18 0	0.501 2-1 2-05 0.321
11:40-10.07 19.97 6.19 -44	0.315 2.2 1.69 6.330
11:49 10.07 19.99 6.20 -55	0.530 2.1 1.37 0.340
11:50 10.07 19:59 6-22 -58	2578 2.1 1.20 0.370
10.55 10.07 19.89 10.22 -59	0-597 21 1.17 0.376
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-S05-0918 Duplicate? Yes No	Shipped: Pace Courier Pickup
Sample Time:55 MS/MSD? YesNo	Drop-off Albany Service Center
Comments/Notes:	Laboratory: Pace Analytical
Comments/Notes:	Laboratory: Pace Analytical Greensburg, PA

Sampling Perso	onnel: PD	)			Date:	9/13/18	?	
	06-03040-134				Weather: 68-50N			
	08-03040-134 TMW-D06				Time in:	1007	Time Out:	1045
Well Id. L'						<u></u>		· · · · · · · · · · · · · · · · · · ·
Well Info	rmation	<u> </u>						
			тос	Other	Well Type:	Flus	hmount S	Stick-Up
Depth to Water	1.	(feet)	2.70		Well Locke		Yes	No
Depth to Bottor	n:	(feet)	52.22			oint Marked:	Yes	No
Depth to Produ		(feet)	Well Mater		SS Other			
Length of Wate			39:52 6:3		Well Diame Comments	•		ei.
Volume of Wat Three Well Vol	the second se	(gal) (gal)	18.9		Commenta	•		
		(gai)				·····		·····
Purging In	formation							
					<b></b>		Conversion F	
Purging Metho	d:	Bailer	Peristaltic	<u> </u>	os Pump	gal/ft.	1" ID 2" ID	4" ID 6" ID
Tubing/Bailer		Teflon	Stainless St.	<u> </u>	ethylene	of	0.04 0.40	0.66 1 47
Sampling Meth		Bailer	Peristaltic	Grundf	os Pump	water	0.04 0.16	0.66 1.47
Average Pump		(ml/min)	<u>180</u> 30			1 gallo	on=3.785L=3785m	nL=1337cu. feet
Duration of Pu		(min)		id well go dry?	Yes No			
Total Volume F		(gai)						
Horiba U-52 W	/ater Quality M	leter Used?	Yes					
Time	DTW	Temp	pН	ORP	Conductivity	Turbidity	DO (mail)	TDS
	(feet)	(°C)		(mV)	(mS/cm)	(NTU)	(mg/L)	(g/L)
[016	(feet)  3.52	(°C) 14.60	7.61	(mV) ~145	(mS/cm) 0.391	(NTU)	(mg/L) 2-6	(g/L) 0.253
1016	(feet)  3.52  3.80	(°C) 14.60 13,72	7.61	(mV) ~145 -161	(mS/cm) 0.39) 0.351	(NTU)	(mg/L) 2.6名 しこし	(g/L) 0.253 0.228
1016 1015 1020	(feet)  3.52  3.80  3.25	(°C) 14.60 13.72 13.56	7.61 7.68 7.68	(mV) -145 -161 -169	(mS/cm) 0.39) 0.351 0.351	(NTU)	(mg/L) 2.68 1.06 0.89	(g/L) 0.253 0.228 0.225
1016 1015 1020 1020	(feet) <u>3.52</u> <u>3.80</u> <u>13.255</u> <u>13.255</u> <u>13.455</u>	(°C) 14.60 13.72 13.56 13.56	7.61 7.68 7.68 7.65	(mV) ~145 -161 -169 ~175	(mS/cm) 0.391 0.351 0.351 0.364	(NTU) 0 6 0	(mg/L) 2.68 1.06 0.89 0.79	(g/L) 0.253 0.228 0.225 0.237
[016 1015 1020 1029 1029	(feet)  3.52  3.80  3.25  3.25  3.45  3.95	(°C) 14.60 13.72 13.56	7-6-8 7-6-8 7-6-8 7-6-8 7-6-8 7-6-8	(mV) -145 -161 -169 -175	(mS/cm) 0.39) 0.351 0.351	(NTU)	(mg/L) 2.68 1.06 0.89 0.79 0.79 0.72	(g/L) 0.253 0.228 0.225 0.225 0.237 0.249
[016 1015 1020 1025 1035	(feet) <u>3.52</u> <u>3.80</u> <u>13.85</u> <u>13.95</u> <u>13.95</u> <u>13.95</u> <u>13.95</u> <u>13.95</u>	(°C) 14.60 13.72 13.56 (3.60 13.60 13.66	7.61 7.68 7.68 7.65	(mV) -145 -161 -169 -175 -179	(mS/cm) 0.391 0.351 0.351 0.364 0.364 0.362	(NTU) 0 0 0 0 0	(mg/L) 2.68 1.06 0.89 0.79	(g/L) 0.253 0.228 0.225 0.237
[016 1015 1020 1029 1029	(feet)  3.52  3.80  3.25  3.25  3.45  3.95	(°C) 14.60 13.72 13.56 13.60 13.60 13.60	7-68 7-68 7-68 7-68 7-68 7-68 7-68 7-68	(mV) ~145 -161 -169 ~175 -179 -179 -182	(mS/cm) 0.391 0.351 0.364 0.364 0.362 0.398	(NTU) 0 0 0 0 0	(mg/L) 2.68 1.06 0.89 0.79 0.79 0.72	(g/L) 0:253 0:228 0:225 0:225 0:237 0:249 0:262
[016 1015 1020 1025 1030 1035	(feet) <u>3.52</u> <u>3.80</u> <u>13.85</u> <u>13.95</u> <u>13.95</u> <u>13.95</u> <u>13.95</u> <u>13.95</u>	(°C) 14.60 13.72 13.56 13.60 13.60 13.60	7-68 7-68 7-68 7-68 7-68 7-68 7-68 7-68	(mV) ~145 -161 -169 ~175 -179 -179 -182	(mS/cm) 0.391 0.351 0.364 0.364 0.362 0.398	(NTU) 0 0 0 0 0	(mg/L) 2.68 1.06 0.89 0.79 0.79 0.72	(g/L) 0:253 0:228 0:225 0:225 0:237 0:249 0:262
[016 1015 1020 1025 1030 1035	(feet) <u>3.52</u> <u>3.80</u> <u>13.85</u> <u>13.95</u> <u>13.95</u> <u>13.95</u> <u>13.95</u> <u>13.95</u>	(°C) 14.60 13.72 13.56 13.60 13.60 13.60	7-68 7-68 7-68 7-68 7-68 7-68 7-68 7-68	(mV) ~145 -161 -169 ~175 -179 -179 -182	(mS/cm) 0.391 0.351 0.364 0.364 0.362 0.398	(NTU) 0 0 0 0 0	(mg/L) 2.68 1.06 0.89 0.79 0.79 0.72	(g/L) 0:253 0:228 0:225 0:225 0:237 0:249 0:262
[016 1015 1020 1025 1030 1035	(feet) <u>3.52</u> <u>3.80</u> <u>13.85</u> <u>13.95</u> <u>13.95</u> <u>13.95</u> <u>13.95</u> <u>13.95</u>	(°C) 14.60 13.72 13.56 13.60 13.60 13.60	7-68 7-68 7-68 7-68 7-68 7-68 7-68 7-68	(mV) ~145 -161 -169 ~175 -179 -179 -182	(mS/cm) 0.391 0.351 0.364 0.364 0.362 0.392	(NTU) 0 0 0 0 0	(mg/L) 2.68 1.06 0.89 0.79 0.79 0.72	(g/L) 0:253 0:228 0:225 0:225 0:237 0:249 0:262
$   \begin{bmatrix}     016 \\     1015 \\     1020 \\     1026 \\     1035 \\     1035 \\     1040 \\     \\     1040 \\     \\     1040 \\     \end{bmatrix} $	(feet) <u>3.52</u> <u>3.80</u> <u>13.85</u> <u>13.95</u> <u>13.95</u> <u>14.00</u> <u>14.00</u>	(°C) 14.60 13.72 13.56 13.60 13.60 13.60	7-10-1 7-10-10 7-10-10 7-10-10 7-10-1 7-10-1	(mV) ~145 -161 -169 ~175 -179 -179 -182	(mS/cm) 0.391 0.351 0.364 0.364 0.362 0.392	(NTU) 0 0 0 0 0	(mg/L) 2.68 1.06 0.89 0.79 0.79 0.72	(g/L) 0:253 0:228 0:225 0:225 0:237 0:249 0:262
[016 1015 1020 1025 1030 1035	(feet) <u>3.52</u> <u>3.80</u> <u>13.85</u> <u>13.95</u> <u>13.95</u> <u>14.00</u> <u>14.00</u>	(°C) 14.60 13.72 13.56 13.60 13.60 13.60	7-10-1 7-10-10 7-10-10 7-10-10 7-10-1 7-10-1	(mV) ~145 -161 -169 ~175 -179 -179 -182	(mS/cm) 0.391 0.351 0.364 0.364 0.362 0.392	(NTU) 0 0 0 0 0	(mg/L) 2.68 1.06 0.89 0.79 0.79 0.72	(g/L) 0:253 0:228 0:225 0:225 0:237 0:249 0:262
[016 1019 1029 1029 1039 1040	(feet) 3.92 3.80 3.85 3.95 13.95 13.95 14.00 14.00	(°C) 14.60 13.72 13.56 13.60 13.60 13.66	7.61 7.68 7.68 7.65 7.63 7.63 7.61 7.62	(mV) ~145 -161 -169 ~175 -179 -179 -182	(mS/cm) 0.391 0.351 0.364 0.364 0.362 0.392	(NTU) 0 0 0 0 0	(mg/L) 2.68 1.06 0.89 0.79 0.72 0.71 0.71	(g/L) 0.253 0.228 0.225 0.237 0.249 0.249 0.267
[016 1015 1020 1026 1035 1040 Sampling Inf	(feet)  3.52  3.80 (3.25  3.95  3.95  4.00  4.00	(°C) 14.60 13.72 13.56 (3.60 13.60 13.66	7.61 7.68 7.68 7.63 7.63 7.63 7.62 7.62	(mV) ~145 -161 -169 ~175 -179 -179 -182	(mS/cm) 0.391 0.351 0.364 0.364 0.362 0.392	(NTU)	(mg/L) 2.68 1.06 0.89 0.79 0.72 0.71 0.71 0.71 0.71	(g/L) 0:253 0:228 0:225 0:237 0:249 0:267 0:267
[016 1015 1020 1026 1035 1040 Sampling Inf	(feet)  3.52  3.80 (3.85  3.95  3.95  3.95  4.00  4.00  4.00	(°C) 14.60 13.72 13.56 13.60 13.60 13.66 SVOC I VOC's	7.61 7.68 7.68 7.65 7.63 7.63 7.63 7.63	(mV) ~145 -161 -169 ~175 -179 -179 -182	(mS/cm) 0.391 0.351 0.364 0.364 0.362 0.398	(NTU)	(mg/L) 2.68 1.06 0.89 0.79 0.72 0.71 0.71 0.71 0.71 0.71 0.74 0.72 0.74 0.72 0.74 0.74 0.72 0.74	(g/L) 0:253 0.228 0.225 0.237 0.249 0.267 0.267 0.267
[016 1019 1070 1070 1079 1039 1040 Sampling Inf EPA SW-84 EPA SW-84 EPA SW-84	(feet) 3.52 3.80 3.25 3.95 3.95 13.95 14.00 14.00 14.00 6 Method 8270 46 Method 8260 ethod 335.4	(°C) 14.60 13.72 13.56 13.60 13.60 13.66 13.66 SVOC I VOC's Cyan	7.61 7.68 7.68 7.65 7.63 7.63 7.61 7.62	(mV) ~145 -161 -169 ~175 -179 -179 -182	(mS/cm) 0.391 0.351 0.364 0.364 0.362 0.398	(NTU)	(mg/L) 2.68 1.06 0.89 0.79 0.72 0.71 0.72 0.71 0.74	(g/L) 0:253 0:228 0:225 0:237 0:249 0:267 0:267
[016 1019 1070 1070 1079 1039 1040 Sampling Inf EPA SW-84 EPA SW-84 EPA SW-84	(feet)  3.52  3.80 (3.85  3.95  3.95  3.95  4.00  4.00  4.00	(°C) 14.60 13.72 13.56 13.60 13.60 13.66 SVOC I VOC's	7.61 7.68 7.68 7.65 7.63 7.63 7.61 7.62	(mV) ~145 -161 -169 ~175 -179 -179 -182	(mS/cm) 0.391 0.351 0.364 0.364 0.362 0.398	(NTU)	(mg/L) 2.68 1.06 0.89 0.79 0.72 0.71 0.72 0.71 0.74	(g/L) 0.253 0.228 0.225 0.225 0.237 0.249 0.267 0.267
[016 1015 1020 1026 1035 1040 Sampling Inf EPA SW-84 EPA SW-84 EPA M EPA M	(feet) 3.52 3.80 3.25 3.95 3.95 4.00 14.00	(°C) 14.60 13.72 13.56 13.60 13.66 13.66 SVOC I VOC's Cyan Meta	7.61 7.68 7.68 7.65 7.63 7.63 7.62 7.62	(mV) ~145 -161 -169 ~175 -179 -179 -182	(mS/cm) 0.391 0.351 0.351 0.364 0.364 0.398 0.410	(NTU)	(mg/L) 2.68 1.06 0.89 0.79 0.72 0.71 0.72 0.71 0.74	(g/L) 0:253 0:253 0:225 0:225 0:237 0:249 0:267 0:267 0:267 0:267 0:267
[016 1015 1020 1026 1035 1040 Sampling Inf EPA SW-84 EPA SW-84 EPA M EPA M EPA M	(feet) 3.52 3.80 3.25 3.95 3.95 13.95 14.00 14.00 14.00 6 Method 8270 46 Method 8260 ethod 335.4	(°C) 14.60 13.72 13.56 13.60 13.60 13.66 13.66 SVOC I VOC's Cyan Meta	7.61 7.68 7.68 7.65 7.63 7.63 7.61 7.62	(mV) -145 -161 -169 -175 -179 -179 -186	(mS/cm) 0.391 0.351 0.351 0.364 0.364 0.398 0.410	(NTU)	(mg/L) 2.68 1.06 0.89 0.79 0.72 0.71 0.71 0.71 0.71 0.71 0.74	(g/L) 0:253 0.225 0.225 0.237 0.249 0.267 0.
[016         1070         1076 <t< td=""><td>(feet) 3.92 3.80 3.85 3.95 3.95 13.95 14.00 14.00 14.00 6 Method 8270 46 Method 8260 ethod 335.4 ethod 200.7 LTMW-D06 10.40</td><td>(°C) 14.60 13.72 13.56 13.60 13.60 13.66 SVOC I VOC's Cyan Meta -0918 Du MS</td><td>7.61 7.68 7.68 7.63 7.63 7.63 7.63 7.63 7.63 7.63 8 7.63 8 7.62</td><td>(mV) -145 -161 -169 -175 -179 -179 -186 -186</td><td>(mS/cm) 0.391 0.351 0.351 0.364 0.364 0.398 0.410</td><td>(NTU)</td><td>(mg/L) 2.68 1.06 0.89 0.79 0.72 0.71 0.71 0.71 0.71 0.71 0.72 stic Yes stic Yes stic Yes vace Courier Pick off Albany Servic</td><td>(g/L) 0,253 0,225 0,225 0,237 0,249 0,267 0,00</td></t<>	(feet) 3.92 3.80 3.85 3.95 3.95 13.95 14.00 14.00 14.00 6 Method 8270 46 Method 8260 ethod 335.4 ethod 200.7 LTMW-D06 10.40	(°C) 14.60 13.72 13.56 13.60 13.60 13.66 SVOC I VOC's Cyan Meta -0918 Du MS	7.61 7.68 7.68 7.63 7.63 7.63 7.63 7.63 7.63 7.63 8 7.63 8 7.62	(mV) -145 -161 -169 -175 -179 -179 -186 -186	(mS/cm) 0.391 0.351 0.351 0.364 0.364 0.398 0.410	(NTU)	(mg/L) 2.68 1.06 0.89 0.79 0.72 0.71 0.71 0.71 0.71 0.71 0.72 stic Yes stic Yes stic Yes vace Courier Pick off Albany Servic	(g/L) 0,253 0,225 0,225 0,237 0,249 0,267 0,00
[016 1015 1020 1026 1035 1040 Sampling Inf EPA SW-84 EPA SW-84 EPA M EPA M EPA M	(feet) 3.92 3.80 3.85 3.95 3.95 13.95 14.00 14.00 14.00 6 Method 8270 46 Method 8260 ethod 335.4 ethod 200.7 LTMW-D06 10.40	(°C) 14.60 13.72 13.56 13.60 13.60 13.66 13.66 SVOC I VOC's Cyan Meta	7.61 7.68 7.68 7.63 7.63 7.63 7.63 7.63 7.63 7.63 8 7.63 8 7.62	(mV) -145 -161 -169 -175 -179 -179 -186 -186	(mS/cm) 0.391 0.351 0.351 0.364 0.364 0.398 0.410	(NTU)	(mg/L) 2.68 1.66 0.89 0.72 0.72 0.71 0.71 0.71 0.71 0.74	(g/L) 0,253 0,225 0,225 0,237 0,249 0,267 0,

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O	onnel: P()	······································	<u> </u>	····	Date:	9/13/18		
Sampling Pers		· · · · · · · · · · · · · · · · · · ·				70 - 50	~1	
Job Number:	06-03040-134	400-221			-	1052		1130
Well id. L	TMW-S06				Time In:	1045	Time Out:	1
					······································	<u></u>		
Well info	rmation				Mail Theory	Eluci		tick-Up
				Other	Well Type: Well Locke		nmount S Yes	No
Depth to Wate		(feet)	3.35		Measuring P		Yes	No
Depth to Botto		(feet)	17.60 NP		Well Materi	7		i
Depth to Produ			1.25		Well Diame	· ·	2" X Othe	
Length of Wate			5.68		Comments:	-		
Three Well Vo			2.04		00			
	iumes.	(gai)			······································			
<u> </u>								
Purging In	formation	<u></u>						
	Ionnauon					[	Conversion F	actors
Purging Metho	vd:	Bailer	Peristaltic	Grundf	os Pump	gal/ft	1" ID 2" ID	4" ID 6" ID
Tubing/Bailer		Tefion	Stainless St.			of		
Sampling Meth		Bailer	Peristaltic		os Pump	water	0.04 0.16	0.66 1.47
Average Pump		ومجمعة فتستحص المجرجين	~172			1 gaile	on=3.785L=3785m	L=1337cu. feet
Duration of Pu		(min)	30			•		
Total Volume		(gal)		id well go dry?	Yes No	æ		
					·			
Horiba U-52 V	Vater Quality M	eter Usea?	res					
								TDO
Time	DTW	Temp	pН	ORP	Conductivity	Turbidity	DO (ma/l.)	TDS (all)
	(feet)	(°C)	4	(mV)	(mS/cm)	(NTU)	(mg/L)	(g/L) 0.984
1055	13:53	16.42	6.78	-127	1.52	4.6	1.29	2 1.04
1100	13.55	15.57	6.56	-106	1.63	1.0	0.83	1.04
1105	3,55	15.64	6.50	-102	1.63	03	0.79	1.04
1110	3.55	15.57		-102	(.63	0.6	0.73	1.05
1115	13.55	15.70	6.51	-102	1.63	D	0.72	1.05
1120		the second s	6.51	-102	1.63	0	0.72	1.05
1125	13.615	15,75	<u>le</u>	102	1,0,7			······································
				[				
<b>  </b>				}	· · · · · · · · · · · · · · · · · · ·			
				<u> </u>				
	J			1	<u></u>			
Sampling In	rormation:							
	10 Martin - 2 0070	SVOC F	ک ل <b>ا</b> 'ہ			2 - 1 liter amb	ers Yes	
11	46 Method 8270					3 - 40 ml via	-	
	46 Method 8260					1 - 250 ml pla		
11	lethod 335.4	Cyani Meta				1 - 250 mi pla		
	lethod 200.7	Weta	13			, Loo in più		╘──┐
Sample ID:	LTMW-S06	<b>.0918</b> Du	plicate?		] si	hipped: F	Pace Courier Pick	kup 🖂
Sample Time:	1125		S/MSD?	Yes No	1		off Albany Servic	
I sample time.		III		K	ک (1997)	,		
						Lahar		olution
Comments/N	otes:	NE	, <u></u>			Laboratory:	Pace An	-
Comments/N	otes: <sub>N</sub> ່າ	NE				Laboratory:	Pace An Greensb	-

Sampling Personnel:	K_		• • • • •	Date:	9/13	118	
Job Number: 06-03040-13	34400-221			Weathe	r: 5 m	t Sol	
Well Id. LTMW-S07	57100 221				1 4	Time Out:	12.41
				Time In:	1400		
Well Information							
	-	тос	Other	Well Ty	pe: Flu	shmount	Stick-Up
Depth to Water:	(feet)	1.55		Well Lo		Yes	No
Depth to Bottom:	(feet)	17.82		Measurir	ng Point Marked:	Yes	No
Depth to Product:	(feet)		•	Well Ma	aterial: PVC	SS Oth	ier:
Length of Water Column:		2.27		Well Dia	ameter: 1"	2" 🔀 Oth	ier:
Volume of Water in Well:		$\omega$		Comme	nts:		
Three Well Volumes:	(gal)	2.00					
						· · · · · · · · · · · · · · · · · · ·	
Purging Information		. <u>,</u> .			·		
	-					Conversion F	actors
Purging Method:	Bailer	Peristaltic	Grundf	os Pump	gal/ft.	1" ID 2" ID	4" ID 6" ID
Tubing/Bailer Material:	Teflon	Stainless St.		/ethylene 🗙	of		
Sampling Method:	Bailer	Peristaltic	Grundf	os Pump	water	0.04 0.16	0.66 1.47
Average Pumping Rate:	(ml/min) 📿	100			1 gal	on=3.785L=3785m	L=1337cu. feet
Duration of Pumping:	(min)	30		······			
Total Volume Removed:	(gal)	⊋ ¤	id well go dry?	Yes	Not		
Horiba U-52 Water Quality	Meter Used?	Yes			$\bigcirc$		
					<u> </u>		
Time DTW	Temp	pН	ORP	Conductivi	ty Turbidity	DO	TDS
Time DTW (feet)	(°C)	pН	ORP (mV)	(mS/cm)	(NTU)	DO (mg/L)	TDS (g/L)
(feet) 13:00 11.94	(°C) 17.76	рН 7.41	(mV) -/.30	(mS/cm)		1	
(feet) <u>13-00</u> <u>11.94</u> <u>13-05</u> <u>17.4.5</u>	(°C) 17.76 16:98	7.41	(mV) -1.30 -161	(mS/cm) 0.414 0.830	(NTU)	(mg/L) Q-17 1-(3	(g/L)
(feet) 13:00 11.94 13:05 17.45 13:10 12.67	(°C) 17.76 110.96 110.65	7.41 6.46 6.48	(mV) -1.30 -161 -167	(mS/cm)	(NTU) (NT	1	(g/L) 0.275
(feet) <u>13-00</u> <u>11.94</u> <u>13-05</u> <u>17.4.5</u>	(°C) 17.76 16:98	7.41 6.46 6.48 6.50	(mV) -1.30 -161	(mS/cm) 0. 414 0. 83 0. 83 0. 63	(NTU) p - 2-1 2 - 6-5 7- 4-6 3-4	(mg/L) $Q \cdot 12$ $1 \cdot (3)$ $0 \cdot 97$ $Q \cdot 95$	(g/L) 0.275
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	(°C) 17.76 16:98 16:65 16:64 16:64 16:69	7.41 6.46 6.48 6.50 6.50	(mV) -1.30 -161 -167 -167 -167 -167	(mS/cm) 0. 414 0. 830 0. 83 0. 631 0. 634	(NTU) (N	(mg/L) $Q \cdot 12$ $1 \cdot (3)$ $0 \cdot 97$ $Q \cdot 95$ $G \cdot 95$ $G \cdot 93$	(g/L) 0.275 0.530 0.537 0.532 0.532
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	(°C) 17.76 16.96 16.65 16.64 16.64 16.64 16.56	7.41 6.46 6.48 6.50 6.50	(mV) -1.30 -161 -167 -167 -167 -167 -169	(mS/cm) 0. 414 0. 830 0. 83 0. 93 0. 93	$(NTU) = 2 \cdot 1 = 2 \cdot 2 \cdot 1 = 2 \cdot 2 \cdot 2 = 2 \cdot 2 \cdot 2 = 2 \cdot 2 \cdot 2 = 2 \cdot 2 \cdot$	(mg/L) D-17 1-(3 0.97- ()-95 C-95 C-95 C-95 0.97	(g/L) 0.275 0.530 0.534 0.532
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	(°C) 17.76 16:98 16:65 16:64 16:64 16:69	7.41 6.46 6.48 6.50 6.50	(mV) -1.30 -161 -167 -167 -167 -167	(mS/cm) 0. 414 0.930 0.83 0.631 0.631	(NTU) (N	(mg/L) $Q \cdot 12$ $1 \cdot (3)$ $0 \cdot 97$ $Q \cdot 95$ $G \cdot 95$ $G \cdot 93$	(g/L) 0.275 0.530 0.537 0.532 0.532
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	(°C) 17.76 16.96 16.65 16.64 16.64 16.64 16.56	7.41 6.46 6.48 6.50 6.50	(mV) -1.30 -161 -167 -167 -167 -167 -169	(mS/cm) 0. 414 0. 830 0. 83 0. 93 0. 93	$(NTU) = 2 \cdot 1 = 2 \cdot 2 \cdot 1 = 2 \cdot 2 \cdot 2 = 2 \cdot 2 \cdot 2 = 2 \cdot 2 \cdot 2 = 2 \cdot 2 \cdot$	(mg/L) D-17 1-(3 0.97- ()-95 C-95 C-95 C-95 0.97	(g/L) 0.275 0.530 0.537 0.532 0.532
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	(°C) 17.76 16.96 16.65 16.64 16.64 16.64 16.56	7.41 6.46 6.48 6.50 6.50	(mV) -1.30 -161 -167 -167 -167 -167 -169	(mS/cm) 0. 414 0. 830 0. 83 0. 93 0. 93	$(NTU) = 2 \cdot 1 = 2 \cdot 2 \cdot 1 = 2 \cdot 2 \cdot 2 = 2 \cdot 2 \cdot 2 = 2 \cdot 2 \cdot 2 = 2 \cdot 2 \cdot$	(mg/L) D-17 1-(3 0.97- ()-95 C-95 C-95 C-95 0.97	(g/L) 0.275 0.530 0.537 0.532 0.532
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	(°C) 17.76 16.96 16.65 16.64 16.64 16.64 16.56	7.41 6.46 6.48 6.50 6.50	(mV) -1.30 -161 -167 -167 -167 -167 -169	(mS/cm) 0. 414 0. 830 0. 83 0. 93 0. 93	$(NTU) = 2 \cdot 1 = 2 \cdot 2 \cdot 1 = 2 \cdot 2 \cdot 2 = 2 \cdot 2 \cdot 2 = 2 \cdot 2 \cdot 2 = 2 \cdot 2 \cdot$	(mg/L) D-17 1-(3 0.97- ()-95 C-95 C-95 C-95 0.97	(g/L) 0.275 0.530 0.537 0.532 0.532
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	(°C) 17.76 16.96 16.65 16.64 16.64 16.64 16.56	7.41 6.46 6.48 6.50 6.50	(mV) -1.30 -161 -167 -167 -167 -167 -169	(mS/cm) 0. 414 0. 830 0. 83 0. 93 0. 93	$(NTU) = 2 \cdot 1 = 2 \cdot 2 \cdot 1 = 2 \cdot 2 \cdot 2 = 2 \cdot 2 \cdot 2 = 2 \cdot 2 \cdot 2 = 2 \cdot 2 \cdot$	(mg/L) D-17 1-(3 0.97- ()-95 C-95 C-95 C-95 0.97	(g/L) 0.275 0.530 0.537 0.532 0.532
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	(°C) 17.76 16.96 16.65 16.64 16.64 16.64 16.56	7.41 6.46 6.48 6.50 6.50	(mV) -1.30 -161 -167 -167 -167 -167 -169	(mS/cm) 0. 414 0. 830 0. 83 0. 93 0. 93	$(NTU) = 2 \cdot 1 = 2 \cdot 2 \cdot 1 = 2 \cdot 2 \cdot 2 = 2 \cdot 2 \cdot 2 = 2 \cdot 2 \cdot 2 = 2 \cdot 2 \cdot$	(mg/L) D-17 1-(3 0.97- ()-95 C-95 C-95 C-95 0.97	(g/L) 0.275 0.530 0.537 0.532 0.532
$(feet) \\ 13.00 \\ 11.94 \\ 13.05 \\ 12.45 \\ 13.10 \\ 12.67 \\ 13.15 \\ 12.76 \\ 13.20 \\ 12.25 \\ 12.95 \\ 13.30 \\ 12.95 \\ 13.30 \\ 12.99 \\ 13.30 \\ 12.99 \\ 13.30 \\ 12.99 \\ 13.30 \\ 12.99 \\ 13.30 \\ 12.99 \\ 13.30 \\ 12.99 \\ 13.30 \\ 12.99 \\ 13.30 \\ 12.99 \\ 13.30 \\ 13.$	(°C) 17.76 16.96 16.65 16.64 16.64 16.64 16.56	7.41 6.46 6.48 6.50 6.50	(mV) -1.30 -161 -167 -167 -167 -167 -169	(mS/cm) 0. 414 0. 830 0. 83 0. 93 0. 93	$(NTU) = 2 \cdot 1 = 2 \cdot 2 \cdot 1 = 2 \cdot 2 \cdot 2 = 2 \cdot 2 \cdot 2 = 2 \cdot 2 \cdot 2 = 2 \cdot 2 \cdot$	(mg/L) D-17 1-(3 0.97- ()-95 C-95 C-95 C-95 0.97	(g/L) 0.275 0.530 0.537 0.532 0.532
$(feet) \\ 13.00 \\ 11.94 \\ 13.05 \\ 12.45 \\ 13.10 \\ 12.67 \\ 13.15 \\ 12.76 \\ 13.20 \\ 12.25 \\ 12.95 \\ 13.30 \\ 12.95 \\ 13.30 \\ 12.99 \\ 13.30 \\ 12.99 \\ 13.30 \\ 12.99 \\ 13.30 \\ 12.99 \\ 13.30 \\ 12.99 \\ 13.30 \\ 12.99 \\ 13.30 \\ 12.99 \\ 13.30 \\ 12.99 \\ 13.30 \\ 13.$	(°C) 17.76 16.98 16.65 16.64 16.69 16.56 16.54	7.41 6.46 6.48 6.50 6.50 (0.50	(mV) -1.30 -161 -167 -167 -167 -167 -169	(mS/cm) 0. 414 0. 830 0. 83 0. 93 0. 93	$(NTU) = 2 \cdot 1 = 2 \cdot 2 \cdot 1 = 2 \cdot 2 \cdot 2 = 2 \cdot 2 \cdot 2 = 2 \cdot 2 \cdot 2 = 2 \cdot 2 \cdot$	(mg/L) Q-12 1-(3 0.97 0.97 C-95 C-95 C-95 (.93 0.97 (.93	$(9^{L})$ 0.275 0.530 0.532 0.532 0.531 0.531 0.531 0.531 0.531
(feet) <u>13</u> -00 11-94 <u>13</u> -05 <u>17.45</u> <u>13</u> -10 <u>12</u> -67 <u>13</u> -15 <u>12.76</u> <u>13</u> -20 <u>17.66</u> <u>13</u> -25 <u>12.95</u> <u>13</u> -30 <u>12.95</u> <u>13</u> -30 <u>12.95</u> <u>13</u> -30 <u>12.95</u>	(°C) 17.76 16.98 16.65 16.69 16.56 16.56 16.56 16.54	7.41 6.46 6.48 6.50 6.50 (0.50	(mV) -1.30 -161 -167 -167 -167 -167 -169	(mS/cm) 0. 414 0. 830 0. 83 0. 93 0. 93	(NTU) $(NTU)$ $(NTU)$ $(0, 7)$ $(0, 7)$ $(0, 7)$ $(1,$	(mg/L) D-17 1-(3 0.97- 0.97- 0.95 0.97 0.97 0.93 0.97 0.93	(g/L) 0.275 0.530 0.532 0.532 0.531 0.531 0.531 0.531
(feet) <u>73-00</u> <u>11.94</u> <u>13-05</u> <u>17.45</u> <u>13-10</u> <u>12-67</u> <u>13-15</u> <u>12-76</u> <u>13-25</u> <u>12-96</u> <u>12-25</u> <u>12-95</u> <u>13-30</u> <u>12-99</u> <u>13-30</u> <u>12-99</u> <u>13-30</u> <u>12-99</u> <u>13-80</u> <u>12-99</u> <u>13-80</u> <u>12-99</u>	(°C) 17.76 16.98 16.65 16.69 16.56 16.56 16.56 16.54	7.41 6.46 6.48 6.50 6.50 (0.50 (0.50	(mV) -1.30 -161 -167 -167 -167 -167 -169	(mS/cm) 0. 414 0. 830 0. 83 0. 93 0. 93	(NTU) 2 - 1 2 - 6 - 7 7 - 7 - 6 7 - 7 - 7 - 6 7 - 7 - 7 - 7 - 6 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 -	(mg/L) D-17 1-(3 0.97 (0.95 C.95 C.92 0.97 (1.93 0.97 (1.93 0.97 (1.93 0.97 (1.93 0.97 (1.93 0.97 (1.93 0.97 (1.93 0.97 (1.93	(g/L) 0.275 0.530 0.537 0.532 0.531 0.531 0.531 0.531
(feet) <u>73-00</u> <u>11.94</u> <u>13-05</u> <u>7.4.5</u> <u>13-10</u> <u>12-67</u> <u>13-15</u> <u>12-76</u> <u>13-25</u> <u>12-96</u> <u>13-25</u> <u>12-96</u> <u>13-30</u> <u>12-99</u> <u>13-30</u> <u>12-99</u> <u>13-30</u> <u>12-99</u> <u>13-30</u> <u>12-99</u> <u>13-80</u> <u>12-99</u> <u>13-90</u> <u>12-99</u> <u>13-90</u> <u>12-99</u> <u>13-90</u> <u>12-99</u> <u>13-90</u> <u>12-99</u> <u>13-90</u> <u>12-90</u> <u>13-90</u> <u>12-90</u> <u>13-90</u> <u>12-90</u> <u>13-90</u> <u>12-90</u> <u>13-90</u> <u>12-90</u> <u>13-90</u> <u>12-90</u> <u>12-90</u> <u>13-90</u> <u>12-90</u> <u>12-90</u> <u>13-90</u> <u>12-90</u> <u>12-90</u> <u>12-90</u> <u>13-90</u> <u>12-90</u> <u>12</u>	(°C) 17-76 16-96 16-65 16-64 16-64 16-566 16-566 16	7.41 6.48 6.48 6.50 6.50 (0.50 (0.50	(mV) -1.30 -161 -167 -167 -167 -167 -169	(mS/cm) 0. 414 0. 830 0. 83 0. 93 0. 93	(NTU) 2 - 1 2 - 6 - 7 7 - 7 - 6 7 - 7 - 7 - 6 7 - 7 - 7 - 7 - 6 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 -	(mg/L) Q-12 1-(3 0.97- 0.97- 0.93 0.97 (1.93 0.97 (1.93 0.97 0.93 0.97 (1.93 0.97 (1.93 0.95 0.55 0.55 0.55 0.55 0.55 0.55 0.55	(g/L) 0.275 0.530 0.537 0.532 0.531 0.531 0.531 0.531
(feet) <u>73-00</u> <u>11-94</u> <u>13-10</u> <u>12-67</u> <u>13-10</u> <u>12-67</u> <u>13-15</u> <u>12-76</u> <u>13-25</u> <u>12-95</u> <u>13-25</u> <u>12-95</u> <u>13-30</u> <u>12-99</u> <u>13-30</u> <u>12-99</u> <u>13-80</u> <u>12-99</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u>	(°C) 17.76 16.65 16.67 16.69 16.56 16.5	7.41 6.48 6.48 6.50 6.50 (1.50	(mV) -1.30 -161 -167 -167 -167 -166	(mS/cm) 0. 414 0. 830 0. 83 0. 93 0. 93	(NTU) 2 - 1 2 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7	(mg/L) $Q - 17$ $I - (3)$ $Q - 7 - (3)$ $Q - 9 - 5$	(g/L) 0.275 0.530 0.532 0.532 0.531 0.531 0.531 0.527 0.527 0.527 0.527
(feet) <u>73-00</u> <u>11.94</u> <u>13-10</u> <u>12-67</u> <u>13-10</u> <u>12-67</u> <u>13-15</u> <u>12-76</u> <u>13-25</u> <u>12-96</u> <u>12-25</u> <u>12-95</u> <u>13-30</u> <u>12-99</u> <u>13-30</u> <u>12-99</u> <u>13-95</u> <u>13-95</u> <u>13-30</u> <u>12-99</u> <u>13-30</u> <u>12-99</u> <u>13-30</u> <u>12-99</u> <u>13-30</u> <u>12-99</u> <u>13-30</u> <u>12-99</u> <u>13-30</u> <u>12-99</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u>	(°C) 17-76 16-65 16-69 16-69 16-69 16-566 16-566 16-566 16-566 16-566 16-566 16-566 16-566 16	7.41 6.48 6.50 6.50 6.50 (1.50 AH's TEX e	(mV) -1.30 -1.61 -1.67 -1.67 -1.67 -1.69 -1.60 -1.60 -1.60	(mS/cm) 0. 414 0. 830 0. 83 0. 93 0. 93	(NTU) 	(mg/L) Q-17 I-(3 O-97 G-95 G-95 G-95 G-95 G-93 O-97 G-95 S-95	(g/L) 0.275 0.530 0.532 0.532 0.531 0.531 0.531 0.531 0.531 0.531 0.531 0.531 0.531 0.531 0.531 0.531 0.531 0.532 0.
(feet)         13:0       11.94         13:10       12.43         13:10       12.67         13:10       12.67         13:10       12.67         13:10       12.76         13:20       12.95         13:30       12.95         13:30       12.94         (3:30)       12.94         (3:30)       12.94         (3:30)       12.94         (3:30)       12.94         (3:30)       12.94         (3:30)       12.94         (3:30)       12.94         (3:30)       12.94         (3:30)       12.94         (3:30)       12.94         (3:30)       12.94         (3:30)       12.94         (3:30)       12.94         (3:30)       12.94         EPA SW-846 Method 8270       EPA Method 335.4         EPA Method 200.7       Sample ID:         Sample ID:       13.33         13.33       13.34	(°C) 17-76 16-65 16-69 16-69 16-69 16-566 16-566 16-566 16-566 16-566 16-566 16-566 16-566 16	7.41 6.46 6.48 6.50 6.50 6.50 (0.50 AH's TEX e	(mV) -1.30 -161 -167 -167 -167 -166	(mS/cm) 0. 414 0. 830 0. 83 0. 93 0. 93	(NTU) 2 - 1 2 - 7 2 - 7 2 - 7 2 - 0 7 2 - 1 1 - 250 ml plas 1 - 250 ml plas 1 - 250 ml plas Shipped: P Drop-o	(mg/L) Q-12 I-(3 O-97 Q-95	(g/L) 0.275 0.530 0.537 0.532 0.531 0.531 0.531 0.531 0.531 0.531 0.532 0.532 0.532 0.531 0.532 0.552 0.
(feet) <u>73-00</u> <u>11.94</u> <u>13-10</u> <u>12-67</u> <u>13-10</u> <u>12-67</u> <u>13-15</u> <u>12-76</u> <u>13-25</u> <u>12-96</u> <u>12-25</u> <u>12-95</u> <u>13-30</u> <u>12-99</u> <u>13-30</u> <u>12-99</u> <u>13-95</u> <u>13-95</u> <u>13-30</u> <u>12-99</u> <u>13-30</u> <u>12-99</u> <u>13-30</u> <u>12-99</u> <u>13-30</u> <u>12-99</u> <u>13-30</u> <u>12-99</u> <u>13-30</u> <u>12-99</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u> <u>13-95</u>	(°C) 17-76 16-65 16-69 16-69 16-69 16-566 16-566 16-566 16-566 16-566 16-566 16-566 16-566 16	7.41 6.48 6.50 6.50 6.50 (1.50 AH's TEX e	(mV) -1.30 -1.61 -1.67 -1.67 -1.67 -1.69 -1.60 -1.60 -1.60	(mS/cm) 0. 414 0. 830 0. 83 0. 93 0. 93	(NTU) 	(mg/L) Q-17 I-(3 O-97 G-95 G-95 G-95 G-95 G-93 O-97 G-95 S-95	(g/L) 0.530 0.537 0.5777 0.5777 0.577 0.577 0.577 0.577 0.577 0.577 0.577

	Date: 9/13/18
Sampling Personnel: PD	
Job Number: 06-03040-134400-221	Weather: 68-SUN
Well Id. LTMW-S08	Time In: 1300 Time Out: 1330
Well Information	
TOC Other	Well Type: Flushmount Stick-Up
Depth to Water: (feet) 15.80	Well Locked: Yes No
Depth to Bottom: (feet) 17.39	Measuring Point Marked: Yes No
Depth to Product: (feet) NP	Well Material: PVC SS Other:
Length of Water Column: (feet) 1,59	Well Diameter: 1" 2" Other:
Volume of Water in Well: (gal) 0.25	Comments:
Three Well Volumes: (gal) O. 76	
Purging Information	October Frankrike
	Conversion Factors
	gant
	rethylene of water 0.04 0.16 0.66 1.47
Average Pumping Rate: (ml/min) ~160	1 gallon=3.785L=3785mL=1337cu. feet
Duration of Pumping: (min) 30	
Total Volume Removed: (gal) / C Did well go dry?	
Horiba U-52 Water Quality Meter Used? Yes No	
Time DTW Temp pH ORP	Conductivity Turbidity DO TDS
Time         DTW         Temp         pH         ORP           (feet)         (°C)         (mV)	(mS/cm) (NTU) (mg/L) (g/L)
(feet) (°C) (mV)	(mS/cm) (NTU) (mg/L) (g/L) 1,12- 43,1 3,36 0.694
(feet) (°C) (mV) 1303 16-02 20-55 6-28 -83	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
(feet) (°C) (mV) 1303 16-02 20.55 6.28 -83 1308 16-28 17.20 6-33 -60	(mS/cm) (NTU) (mg/L) (g/L) 112- 43 ( 3.36 0.694
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	(mS/cm)         (NTU)         (mg/L)         (g/L)           112         43.1         3.36         0.694           0.554         26.8         1.05         0.354
(feet) (°C) (mV) 1303 16-02 20.56 6.28 -83 1308 16-28 17.20 6-33 -60	(mS/cm)         (NTU)         (mg/L)         (g/L)           112         43.1         3.36         0.694           0.554         26.8         1.05         0.354
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	(mS/cm)         (NTU)         (mg/L)         (g/L)           112         43.1         3.36         0.694           0.554         26.8         1.05         0.354
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	(mS/cm)         (NTU)         (mg/L)         (g/L)           112         43.1         3.36         0.694           0.554         26.8         1.05         0.354
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	(mS/cm)         (NTU)         (mg/L)         (g/L)           112         43.1         3.36         0.694           0.554         26.8         1.05         0.354
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	(mS/cm)         (NTU)         (mg/L)         (g/L)           112         43.1         3.36         0.694           0.554         26.8         1.05         0.354
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	(mS/cm)         (NTU)         (mg/L)         (g/L)           112         43.1         3.36         0.694           0.554         26.8         1.05         0.354
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	(mS/cm)         (NTU)         (mg/L)         (g/L)           112         43.1         3.36         0.694           0.554         26.8         1.05         0.354
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	(mS/cm)         (NTU)         (mg/L)         (g/L)           112         43.1         3.36         0.694           0.554         26.8         1.05         0.354
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	(mS/cm)         (NTU)         (mg/L)         (g/L)           112         43.1         3.36         0.694           0.554         26.8         1.05         0.354
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	(mS/cm)       (NTU)       (mg/L)       (g/L)         1:12-       43:1       3:36       0:694-         0:554       26.8       1.05       0:354-         0:576       3:9       0:93       0:369
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	(mS/cm)       (NTU)       (mg/L)       (g/L)         1:12-       43. i       3.36       0.694+         0.5554       26.8       1.05       0.354+         0:576       3.9       0.93       0.369+
Interm         (feet)         (°C)         (mV)           1309         16.02         20.55         6.28         -83           1309         16.28         17.20         6.33         -60           1310         4677         133         16.45         -55           1315         16.45         Cmpla         -55           1315         5         5         -55           1315         5         5         -55           1315         5         5         -55           1315         5         5         -55           1315         5         5         -55           1315         5         5         -55           1315         5         5         -55           1315         5         5         -5           14         5         5         -5           15         5         5         -5	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Intermeter       (feet)       (°C)       (mV)         1303       16.02       20.55       6.28       -83         1303       16.22       17.20       6.33       -60         1310       Heith 1.35       16.76       6.31       -55         1310       Heith 1.35       16.76       6.31       -55         1315       16.45       Chan pla	(mS/cm)       (NTU)       (mg/L)       (g/L)         1; 12-       43; i       3.36       0.694-         0; 554       26.8       1.05       0; 354-         0; 576       3, 9       0,93       0,369         -       -       -       -         -       -       -       -         -       -       -       -         -       -       -       -         -       -       -       -         -       -       -       -         -       -       -       -         -       -       -       -         -       -       -       -         -       -       -       -         -       -       -       -         -       -       -       -         -       -       -       -         -       -       -       -         -       -       -       -         -       -       -       -         -       -       -       -         -       -       -       -         3 - 40 ml vials       Ye
Intermitting       (feet)       (°C)       (mV)         1309       16.02       20.55       6.28       -83         1309       16.28       17.20       6.33       -60         1310       Heith 1.35       16.76       6.33       -55         1315       16.45       Cmpla       -55         1315       16.45       SVOC PAH's       -55         1415       16.55       16.55       -55         1515       16.55	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Intermitted       (feet)       (°C)       (mV)         1303       16.03       20.56       6.28       -83         1303       16.28       17.20       6.33       -60         1310       HTT 1.35       14.70       6.31       -55         1315       16.45       Impla       -55         1316       16.45       Impla       -55         1316       16.45       Impla       -55         1400       16.45       Impla       -55         1516       16.45       Imp	(mS/cm)       (NTU)       (mg/L)       (g/L)         1       12-       43. i       3.36       0.6944         0.5554       26.8       1.05       0.3544         0.576       3.9       0.93       0.369         0.576       3.9       0.93       0.369         0.576       3.9       0.93       0.369         0.576       3.9       0.93       0.369         0.576       3.9       0.93       0.369         0.576       3.9       0.93       0.369         0.576       3.9       0.93       0.369         0.576       3.9       0.93       0.369         0.576       3.9       0.93       0.369         0.576       3.9       0.93       0.369         0.576       3.9       0.93       0.369         0.576       3.9       0.93       0.369         0.576       3.9       0.93       0.93         1.000       1.000       1.000       1.000         1.000       1.000       1.000       1.000         1.000       1.000       1.000       1.000         1.000       1.0000       1.000       1.000     <
Internation       (feet)       (C)       (mV)         1309       16.02       20.55       6.33       -60         1310       16.75       14.70       6.33       -60         1310       16.75       14.70       6.33       -55         1315       16.45       14.70       6.31       -55         1315       16.45       14.70       16.31       -55         1315       16.45       14.70       16.31       -55         1315       16.45       14.70       16.31       -55         1315       16.45       14.70       16.31       -55         1315       16.45       14.70       16.31       -55         1315       16.45       14.70       16.31       -55         1315       16.45       14.70       16.31       -55         1315       16.45       14.70       16.31       -55         1316       16.45       14.70       16.31       -55         1316       16.45       14.70       16.31       -55         14.70       16.75       14.70       14.70       14.70         15.70       16.70       16.70       15.70       15.70	(mS/cm)       (NTU)       (mg/L)       (g/L)         1:12-       43:1       3.36       0.6944         0.554       26.8       1.05       0.3544         0:576       3.9       0.93       0.3544         0:576       3.9       0.93       0.3544         0:576       3.9       0.93       0.3544         0:576       3.9       0.93       0.3544         0:576       3.9       0.93       0.3544         0:576       3.9       0.93       0.3544         0:576       3.9       0.93       0.3544         0:576       3.9       0.93       0.3544         0:576       3.9       0.93       0.3544         0:577       3.9       0.93       0.3544         0:576       3.9       0.93       0.3544         0:577       3.9       0.93       0.3544         0:577       3.9       0.93       0.93         1.250 ml plastic       Yes       No
Internet       (feet)       (C)       (mV)         1303       16.03       20.55       6.28       -83         1303       16.23       17.20       6.33       -60         1310       Hart 1.35       16.45       L.27       6.31       -55         1315       16.45       L.27       L.27       6.31       -55         1315       16.45       L.02       L.27       L.27       L.27         1315       16.45       L.02       L.27       L.27       L.27         1315       16.45       L.02       L.27       L.27       L.27         1315       16.45       L.02       L.02       L.27       L.27         1315       16.45       L.02       L.02       L.27       L.27         1315       16.45       L.02       L.02       L.02       L.27         1315       16.45       L.02       L.02       L.02       L.27         Sampling Information:       EPA SW-846 Method 8270       SVOC PAH's       L.27         EPA SW-846 Method 8260       VOC's BTEX       EPA Method 335.4       Cyanide         EPA Method 200.7       Metals       L.27       Metals	(mS/cm)       (NTU)       (mg/L)       (g/L)         1       12-       43. i       3.36       0.6944         0.5554       26.8       1.05       0.3544         0.576       3.9       0.93       0.369         0.576       3.9       0.93       0.369         0.576       3.9       0.93       0.369         0.576       3.9       0.93       0.369         0.576       3.9       0.93       0.369         0.576       3.9       0.93       0.369         0.576       3.9       0.93       0.369         0.576       3.9       0.93       0.369         0.576       3.9       0.93       0.369         0.576       3.9       0.93       0.369         0.576       3.9       0.93       0.369         0.576       3.9       0.93       0.369         0.576       3.9       0.93       0.93         1.000       1.000       1.000       1.000         1.000       1.000       1.000       1.000         1.000       1.000       1.000       1.000         1.000       1.0000       1.000       1.000     <
Image       (feet)       (°C)       (mV)         1309       16.02       20.55       6.28       -63         1310       16.22       17.20       6.33       -60         1310       16.75       16.31       -55         1315       16.45       16.70       6.31       -55         1315       16.45       16.70       6.31       -55         1315       16.45       16.70       6.31       -55         1315       16.45       16.70       6.31       -55         1315       16.45       16.70       6.31       -55         1315       16.45       16.70       16.31       -55         1315       16.45       16.70       16.31       -55         1315       16.45       16.70       16.31       -55         1315       16.45       16.45       16.31       -55         1316       16.45       16.70       16.31       -55         1316       16.45       16.75       16.75       16.75         1316       16.45       16.75       16.75       16.75         14.5       16.75       16.75       17.75       17.75 <td< td=""><td>(mS/cm)       (NTU)       (mg/L)       (g/L)         1:12-       43:1       3.36       0.6944         0.554       26.8       1.05       0.3544         0:576       3.9       0.93       0.3544         0:576       3.9       0.93       0.3544         0:576       3.9       0.93       0.3544         0:576       3.9       0.93       0.3544         0:576       3.9       0.93       0.3544         0:576       3.9       0.93       0.3544         0:576       3.9       0.93       0.3544         0:576       3.9       0.93       0.3544         0:576       3.9       0.93       0.3544         0:577       3.9       0.93       0.3544         0:576       3.9       0.93       0.3544         0:577       3.9       0.93       0.93         1.250 ml plastic       Yes       No         1.250 ml plastic       Yes       No         No       No       No         1.250 ml plastic       Yes       No         Shipped:       Pace Courier Pickup       X</td></td<>	(mS/cm)       (NTU)       (mg/L)       (g/L)         1:12-       43:1       3.36       0.6944         0.554       26.8       1.05       0.3544         0:576       3.9       0.93       0.3544         0:576       3.9       0.93       0.3544         0:576       3.9       0.93       0.3544         0:576       3.9       0.93       0.3544         0:576       3.9       0.93       0.3544         0:576       3.9       0.93       0.3544         0:576       3.9       0.93       0.3544         0:576       3.9       0.93       0.3544         0:576       3.9       0.93       0.3544         0:577       3.9       0.93       0.3544         0:576       3.9       0.93       0.3544         0:577       3.9       0.93       0.93         1.250 ml plastic       Yes       No         1.250 ml plastic       Yes       No         No       No       No         1.250 ml plastic       Yes       No         Shipped:       Pace Courier Pickup       X
Internation       (feet)       (C)       (mV)         1309       16.02       20.55       6.33       -60         1310       16.75       14.70       6.31       -55         1310       16.75       16.75       16.31       -55         1310       16.75       16.70       16.31       -55         1315       16.45       14.70       16.31       -55         1315       16.45       14.70       16.31       -55         1315       16.45       14.70       16.31       -55         1315       16.45       14.70       16.31       -55         1315       16.45       14.70       16.31       -55         1315       16.45       14.70       16.31       -55         1315       16.45       14.70       16.31       -55         1315       16.45       14.70       16.31       -55         1316       16.45       14.70       16.31       -55         1316       16.45       14.70       16.31       -55         1316       16.45       14.70       14.70       14.70         1417       15.70       16.70       15.70       15.70	(mS/cm)       (NTU)       (mg/L)       (g/L)         1:12-       43:1       3.36       0.6944         0.554       26.8       1.05       0.3544         0:576       3.9       0.93       0.354         0:576       3.9       0.93       0.354         0:576       3.9       0.93       0.354         0:576       3.9       0.93       0.354         0:576       3.9       0.93       0.354         0:576       3.9       0.93       0.354         0:576       3.9       0.93       0.354         0:576       3.9       0.93       0.354         0:576       3.9       0.93       0.354         0:576       3.9       0.93       0.354         0:576       3.9       0.93       0.354         1:577       3.9       0.93       0.93         3:40 ml vials       Yes       No       No         1:250 ml plastic       Yes       No       No         1:250 ml plastic       Yes       No       No         Shipped:       Pace Courier Pickup       Drop-off Albany Service Center       Laboratory:         Laboratory:       Pace Analytic

	Date: 9/13/19
Sampling Personnel:	Date. 1 5
Job Number: 06-03040-134400-221	Weather: Dupun Co
Well Id. LTMW-S09	Time In: 3:40 Time Out: 14:33
Well Information         ,TOC Other         Depth to Water:       (feet)       (1)-7.3         Depth to Bottom:       (feet)       16.92         Depth to Product:       (feet)       -         Length of Water Column:       (feet)       -         Volume of Water in Well:       (gai)       /.07         Three Well Volumes:       (gal)       2.21	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         Tubing/Bailer Material:       Teflon       Stainless St.       Polye         Sampling Method:       Bailer       Peristaltic       Grundfos         Average Pumping Rate:       (ml/min)       ZOO       Grundfos         Duration of Pumping:       (min)       30       Did well go dry?         Horiba U-52 Water Quality Meter Used?       Yes No       No	
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $
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         Field Duplicate 0918       Duplicate?       Yes No         Sample ID:       LTMW-S09-0918       Duplicate?       Yes No         Comments/Notes:	2 - 1 liter ambers Yes No 3 - 40 ml vials Yes No 1 - 250 ml plastic Yes No 1 - 250 ml plastic Yes No Shipped: Pace Courier Pickup Drop-off Albany Service Center Laboratory: Pace Analytical Greensburg, PA

National Grid

Kingsley Avenue, Rome, New York

Sampling Pers	sonnel:	0			Date:	9/13/18		
Job Number:		1400-221	·····	Weather: 70° 50 N				
					Time In: 114-8 Time Out: 1255			
Well Id.	LTMW-S10					140		16.1
Well Info	ormation							
			тос	Other	Well Type:	Flus	hmount S	tick-Up
Depth to Wate	er:	(feet)	10,75	Well Locke		Yes	No	
Depth to Botto		(feet)	17.18	Measuring P		Yes	No	
Depth to Prod	NP	Well Materi						
Length of Wat		(feet)	6.43		Well Diame Comments		2"\/Oth	er:
Three Well Vo		(gal) (gal)	3.08		Commenta			
	Junico.	(901)	0.96					
L								
Purging Ir	formation							
							Conversion F	
Purging Metho	the second s	Bailer	Peristaltic		os Pump	gai/ft.	1" ID 2" ID	4" ID 6" ID
Tubing/Bailer		Teflon	Stainless St.		ethylene	of	0.04 0.40	0.00 4.47
Sampling Met		Bailer	Peristaltic	Grundf	os Pump	water	0.04 0.16	0.66 1.47
Average Pum Duration of Pu		(ml/min) · · (min)	- <u>180</u> 30			1 gall	on=3.785L=3785m	L=1337cu. teet
Total Volume		(mm) (gal)		id well go dry?	Yes No	2		
						$\sim$		
Horiba U-52 V	Vater Quality N		tes					
Time	DTW	Temp	pН	ORP	Conductivity	Turbidity	DO	TDS
Time	(feet)	(°C)	рп	(mV)	(mS/cm)	(NTU)	(mg/L)	(g/L)
1200	11.00	17.54	6.53	-65	1,125	130	2.86	0,720
1205	(),(0	17.255	6.19	-52	1.07	164	0.90	0.687
1210	11.12	16.90	6.20	-59	1.06	14.2	0,77	0=675
1215	11.15	16.76	6.20	-65	1.05	53	0,71	0.670
1220	1619	16.63	10120	-67	1.04	217	0.67	0.667
1225	11.20	16.57	6.19	-70	1.04	<u>ම.0</u> දැ.0	0.63	0.666
1230	11.00	14.77	10: cu		1.04	0.0		0.000
Sampling Int	formation:							
					,	,		
EPA SW-84	46 Method 8270	SVOC F				2 2 - 1 liter amb		$ \longleftrightarrow  \square  \blacksquare$
	46 Method 8260	VOC's E				₹ Si - 40 ml vial		
1	lethod 335.4	Cyani				ל 1 250 ml plas א - 250 ml plas		
	lethod 200.7 /-S10-MS-0918	Meta L <b>TMW-</b>	IS \$10-MSD-091	8	، ~~	ג - 200 mi pias	500 TCS	
Sample ID:	LTMW-S10-		plicate?		Sh	ipped: P	ace Courier Pick	up 🔽 🛛
Sample Time:	1230		S/MSD?	Yes		••	ff Albany Service	· • •
				·····	· 	Laboratory:	Pace Ana	
Comments/N		المسمعة وبربي المع	Nel a c	1. A	~.0	Laboratory:	Greensbu	- 1
	THON SEE	NU WITTEN MII D	PUTAP FILM	est START			Greenabu	1 1 A
\\svrrmt88-vm2\s	yracuse-01\Dashb	oard\Planning\72	9274.xlsm	v of NM	•			Page 22 of



## CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A			Section	~																								<u> </u>	
Reguired Client Information;		Invoice Information:															Page:	1	of '1										
Company: GES - Syracuse Report To: Devin Shay (GES) dshay@gesonline.com				Attention: Accounts Payable vie email at ges-invoices@gesoniine.com									E	REGU	JLAT	ORY /	GENC	Y											
Address: 5 Technology Place, Suite 4 Report To: Tim Beaumont (GES) tbeaumont@gesonline.com				Company	Name: G	iroundy	weter & I	Environ	mental	Services	, inc.							1	NF	DES		GRO		VATER			GWA		
East Syracuse, New York 13057			Address: 5 Technology Place, Suite 4, East Syracuse, NY 13057							1		ST	f	RCR/				OTHE											
Emell To: dshay@gesonline.com Purchase Order No				Pace Quote Reference:								1			SIT			<u>، ر</u>	GA	H.	IN :'	MI							
Phone: 800.220.3069 Fax: None Project Name: National Grid - Roma M x4051 Ave. Site, Rome, NY				ey Pace Project Manager: Rachel Christner											LOC	ATIC	14(			· .	он 🗄	sc		от	HER				
Requested Due Date/TAT: Standard Project Number: 0603040-134400-221-1106				Pace Profile #.								1	Filtered	(Y/N)					7	77	7	11	177						
Section D Required Client Information	T	T		COLLECTED Preservatives										Reques		••••		•. •		<u> /</u>	+	+	$\mathcal{H}$	H					
SAMPLE ID One Character per box. (A-Z, 0-9 /,-) Samples	MATELIS CODE minore office of material with material with material of the second of the se		C) SAMPLE TYPE G+GRAB C=COMP	OMPOSITE S		Give				SAMPLE TEMP AT COLLECTION		CONTAINERS	Co Unpreserved		Ę	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Other	Analysi	s:						The second secon			Pace Project Number Lab I.D.
Trip Blank		WT				H	$\mu \mu$	p-	<u>D</u>	$\nu_{-}$	1		*	-+-		1	╉			-	-	1	-1-	1	-+-	+			
END OF RECORD			G					1				3	+	+	3	• +	+-				3	┝┤		┼╌┥		+			
								1			┢	-	╞	1	Η	+		$\vdash$		~†	+-	╞┼	+	+					
<i>t.</i>			•••••					+		~~~ <b>~</b> ~	┢		╡		$\dagger$	1	-			-	┿		-†	+		+			
			-					1			1-		1			-+	+			$\top$				++	-				
a											T		1	T			1				1	Π	-	1-1				·	
								1	_			1	$\top$		Ħ		-	Π		-		Ħ		$\uparrow \uparrow$					
· F. ·						-		1			1		+		$\square$	1	+			-	-				T		<u> </u>		
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Company: GES - Syracuse	Report To: Davin Shay (GES) dshay@gesonline.com		Attention: Accounts I								REG	JLAT	,								
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# 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

October 19, 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. 30265203, 30265204

Groundwater & Environmental Services, Inc. (GES) reviewed two data packages (Laboratory Project Number 30265203, 30265204) from Pace Analytical Services, Inc., for the analysis of an effluent sample and trip blank collected September 13, 2018 as well as groundwater samples collected on September 13, 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
LTMW-S10	J+	Acenaphthene	MS/MSD recovery high
		Acetone	RPD exceeds maximum

In summary, sample results are usable as reported, with non-compliances in the matrix spike including acenaphthene recovery and the RPD out of specification for acetone. The result for pH in all samples was qualified by the laboratory as estimated 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, with the exception of dichloroethane-d4 recovering high across all samples. Analytes reported are not associated with this surrogate, and the high recovery does not affect the data. Calibrations standards show acceptable responses within analytical protocol and validation action limits with the exception of 2-hexanone, where the high continuing calibration recovery did not affect the non-detect data. The laboratory control spike recoveries and precision indicate the method is within laboratory control, Matrix spike and matrix spike recoveries were within laboratory specified criteria, with the exception that the RPD for acetone was out of specification. This resulted in uncertainty in the non-detect reported for LTMW-S10, with acetone results qualified as estimated non-detect. The blind field duplicate correlations of LTMW-S09 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. 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, Matrix spike and matrix spike recoveries were within laboratory specified criteria, with the exception that the recovery for acenaphthene was high, out-of-specification. This resulted in uncertainty in the detect reported for LTMW-S10, with acenaphthene results qualified as estimated detect, with a possible high bias. The blind field duplicate correlations of LTMW-S09 fall within guidance limits.

# 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 fall within guidance limits. Instrument performance is compliant, and blanks show no contamination above the reporting limit. The recovery on the post digestion spike of mercury



was high out of specification, but the associated sample did not report a detection, and no qualification is required.

# 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 the Effluent sample is qualified as estimated due to outlying holding time, as noted in the laboratory case narrative.

All 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,

antwick >

Bonnie Janowiak, Ph.D. Senior Chemist



Project: National Grid - Rome Kingsley

Pace Project No.: 30265204

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30265204001	LTMW-D01-0918	200.7 Rev4.4, 1994	CTS	3	PASI-PA
		EPA 8270D by SIM	AJC	19	PASI-PA
		EPA 8260C	JAS	10	PASI-PA
		EPA 335.4	LEP	1	PASI-PA
30265204002 LTMW-S01-0918	LTMW-S01-0918	200.7 Rev4.4, 1994	CTS	3	PASI-PA
		EPA 8270D by SIM	AJC	19	PASI-PA
		EPA 8260C	JAS	10	PASI-PA
		EPA 335.4	LEP	1	PASI-PA
30265204003 LTMW-D02-0918	LTMW-D02-0918	200.7 Rev4.4, 1994	CTS	3	PASI-PA
	EPA 8270D by SIM	AJC	19	PASI-PA	
		EPA 8260C	JAS	10	PASI-PA
		EPA 335.4	LEP	1	PASI-PA
30265204004 LTMW-S02-0918	LTMW-S02-0918	200.7 Rev4.4, 1994	CTS	3	PASI-PA
		EPA 8270D by SIM	AJC	19	PASI-PA
		EPA 8260C	JAS	10	PASI-PA
		EPA 335.4	LEP	1	PASI-PA
30265204005 LTM	LTMW-D03-0918	200.7 Rev4.4, 1994	CTS	3	PASI-PA
		EPA 8270D by SIM	AJC	19	PASI-PA
		EPA 8260C	JAS	10	PASI-PA
		EPA 335.4	LEP	1	PASI-PA
30265204006	LTMW-S03-0918	200.7 Rev4.4, 1994	CTS	3	PASI-PA
		EPA 8270D by SIM	AJC	19	PASI-PA
		EPA 8260C	JAS	10	PASI-PA
		EPA 335.4	LEP	1	PASI-PA
30265204007	LTMW-D04-0918	200.7 Rev4.4, 1994	CTS	3	PASI-PA
		EPA 8270D by SIM	AJC	19	PASI-PA
		EPA 8260C	JAS	10	PASI-PA
		EPA 335.4	LEP	1	PASI-PA
30265204008	LTMW-S04-0918	200.7 Rev4.4, 1994	CTS	3	PASI-PA
		EPA 8270D by SIM	AJC	19	PASI-PA
		EPA 8260C	JAS	10	PASI-PA
		EPA 335.4	LEP	1	PASI-PA
30265204009	LTMW-D05-0918	200.7 Rev4.4, 1994	CTS	3	PASI-PA
		EPA 8270D by SIM	AJC	19	PASI-PA
		EPA 8260C	JAS	10	PASI-PA
		EPA 335.4	LEP	1	PASI-PA
30265204010	LTMW-S05-0918	200.7 Rev4.4, 1994	CTS	3	PASI-PA



Project: National Grid - Rome Kingsley

Pace Project No.: 30265204

EPA 8270D by SIMAJC19PASI-PAEPA 8260CJAS10PASI-PAEPA 335.4LEP1PASI-PA	Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
B3265204011         LTMW-D06-0918         EPA 335.4         LEP         1         PASI-PA           B3265204011         LTMW-D06-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           B3265204012         LTMW-S06-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           B3265204012         LTMW-S06-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           B3265204012         LTMW-S06-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           B3265204012         LTMW-S07-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           B3265204013         LTMW-S07-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           B3265204014         LTMW-S08-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           B3265204014         LTMW-S08-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           B3265204015         LTMW-S08-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           B3265204015         LTMW-S08-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           B3265204015         LTMW-S09-0918			EPA 8270D by SIM	AJC	19	PASI-PA
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Bit PA 8200C         JAS         10         PASI-PA           Bit PA 335.4         LEP         1         PASI-PA           Bit PA 335.4         LEP         1         PASI-PA           Bit PA 8270D by SIM         ALC         19         PASI-PA           EPA 8270D by SIM         ALC         19         PASI-PA           Bit PA 8270D by SIM         ALC         19         PASI-PA           Bit PA 335.4         LEP         1         PASI-PA           Bit PA 8270D by SIM         ALC         19         PASI-PA           Bit PA 8250C         JAS         10         PASI-PA           Bit PA 335.4         LEP         1         PASI-PA           Bit PA 8250C         JAS         10         PASI-PA           Bit PA 8250C	30265204011	LTMW-D06-0918	200.7 Rev4.4, 1994	CTS	3	PASI-PA
B0265204012         LTMW-S06-0918         EPA 335.4         LEP         1         PASI-PA           B0265204012         LTMW-S06-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           EPA 82600C         JAS         10         PASI-PA           EPA 335.4         LEP         1         PASI-PA           B0265204013         LTMW-S07-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           B0265204014         LTMW-S07-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           B0265204014         LTMW-S06-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           B0265204014         LTMW-S06-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           B0265204015         LTMW-S06-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           B0265204015         LTMW-S09-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           B0265204015         LTMW-S09-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           B0265204015         LTMW-S10-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           B0265204			EPA 8270D by SIM	AJC	19	PASI-PA
30265204012         LTMW-S06-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           EPA 8270D by SIM         ALC         19         PASI-PA           EPA 8250C         JAS         10         PASI-PA           EPA 8250C         JAS         10         PASI-PA           B0265204013         LTMW-S07-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           B0265204014         LTMW-S07-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           B0265204014         LTMW-S08-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           B0265204014         LTMW-S08-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           B0265204015         LTMW-S09-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           B0265204015         LTMW-S09-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           B0265204015         LTMW-S09-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           B0265204015         LTMW-S10-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           B0265204016         LTMW-S10-0918			EPA 8260C	JAS	10	PASI-PA
BPA 8270D by SIM         AJC         19         PASI-PA           EPA 8260C         JAS         10         PASI-PA           EPA 335.4         LEP         1         PASI-PA           EPA 335.4         LEP         1         PASI-PA           EPA 8270D by SIM         ALC         19         PASI-PA           B0265204014         LTMW-S08-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           B0265204015         LTMW-S09-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           B0265204015         LTMW-S09-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           B0265204015         LTMW-S09-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           B0265204015         LTMW-S10-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           B0265204017         LTMW-S10-MS-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           B0265204017			EPA 335.4	LEP	1	PASI-PA
B0265204013         LTMW-S07-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           B0265204013         LTMW-S07-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           B0265204014         LTMW-S07-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           B0265204014         LTMW-S08-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           B0265204014         LTMW-S08-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           B0265204015         LTMW-S08-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           B0265204015         LTMW-S09-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           B0265204015         LTMW-S09-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           B0265204015         LTMW-S10-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           B0265204016         LTMW-S10-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           B0265204017         LTMW-S10-MS-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           B0265204017         LTMW-S10-MS	80265204012	LTMW-S06-0918	200.7 Rev4.4, 1994	CTS	3	PASI-PA
ID2652204013LTMW-S07-0918EPA 335.4LEP1PASI-PA200.7 Rev4.4, 1994CTS3PASI-PAEPA 8270D by SIMAJC19PASI-PAEPA 8270D by SIMAJC10PASI-PAEPA 335.4LEP1PASI-PA20265204014LTMW-S08-0918200.7 Rev4.4, 1994CTS320265204015LTMW-S08-0918200.7 Rev4.4, 1994CTS3PASI-PAEPA 8270D by SIMAJC19PASI-PAEPA 8270D by SIMAJC19PASI-PA20265204015LTMW-S09-0918200.7 Rev4.4, 1994CTS3PASI-PA20265204016LTMW-S10-0918200.7 Rev4.4, 1994CTS3PASI-PA20265204016LTMW-S10-0918200.7 Rev4.4, 1994CTS3PASI-PA20265204017LTMW-S10-0918200.7 Rev4.4, 1994CTS3PASI-PA20265204017LTMW-S10-MS-0918200.7 Rev4.4, 1994CTS3PASI-PA			EPA 8270D by SIM	AJC	19	PASI-PA
30265204013         LTMW-S07-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           EPA 8270D by SIM         AJC         19         PASI-PA           EPA 82500C         JAS         10         PASI-PA           EPA 82500C         JAS         10         PASI-PA           EPA 335.4         LEP         1         PASI-PA           EPA 8270D by SIM         AJC         19         PASI-PA           EPA 8260C         JAS         10         PASI-PA           EPA 8260C         JAS         10         PASI-PA           EPA 8260C         JAS         10         PASI-PA		EPA 8260C	JAS	10	PASI-PA	
EPA 8270D by SIM         AJC         19         PASI-PA           EPA 8260C         JAS         10         PASI-PA           EPA 335.4         LEP         1         PASI-PA           EPA 335.4         LEP         1         PASI-PA           C65204014         LTMW-S08-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           EPA 8270D by SIM         AJC         19         PASI-PA           EPA 8270D by SIM         AJC         19         PASI-PA           C65204015         LTMW-S09-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           C65204015         LTMW-S09-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           C65204015         LTMW-S10-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           C65204016         LTMW-S10-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           C65204016         LTMW-S10-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           C65204016         LTMW-S10-MS-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           C65204017         LTMW-S10-MS-0918         200.7 Rev4.4, 1994 <td></td> <td></td> <td>EPA 335.4</td> <td>LEP</td> <td>1</td> <td>PASI-PA</td>			EPA 335.4	LEP	1	PASI-PA
EPA 8260C         JAS         10         PASI-PA           EPA 335.4         LEP         1         PASI-PA           EPA 335.4         LEP         1         PASI-PA           EPA 8270D by SIM         AJC         19         PASI-PA           EPA 8270D by SIM         AJC         10         PASI-PA           EPA 8260C         JAS         10         PASI-PA           EPA 8260C         JAS         10         PASI-PA           EPA 835.4         LEP         1         PASI-PA           EPA 8260C         JAS         10         PASI-PA           EPA 8260C         JAS         10         PASI-PA           EPA 8270D by SIM         AJC         19         PASI-PA           EPA 8260C         JAS         10         PASI-PA           EPA 8270D by SIM         AJC         19         PASI-PA           EPA 8270D by SIM         AJC         19         PASI-PA           EPA 8260C         JAS         10 <t< td=""><td rowspan="3">30265204013 LTMW-S07-0918</td><td>LTMW-S07-0918</td><td>200.7 Rev4.4, 1994</td><td>CTS</td><td>3</td><td>PASI-PA</td></t<>	30265204013 LTMW-S07-0918	LTMW-S07-0918	200.7 Rev4.4, 1994	CTS	3	PASI-PA
EPA 335.4         LEP         1         PASI-PA           10265204014         LTMW-S08-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           EPA 8270D by SIM         AJC         19         PASI-PA           EPA 8260C         JAS         10         PASI-PA           EPA 335.4         LEP         1         PASI-PA           EPA 335.4         LEP         1         PASI-PA           EPA 8270D by SIM         AJC         19         PASI-PA           EPA 8260C         JAS         10         PASI-PA           EPA 8270D by SIM         AJC         19         PASI-PA           EPA 8260C         JAS         10         PASI-PA           EPA 8260C         JAS         10         PASI-PA           EPA 8260C         JAS         10         PASI-PA           EPA 8270D by SIM         AJC         19         PASI-PA <t< td=""><td>EPA 8270D by SIM</td><td>AJC</td><td>19</td><td>PASI-PA</td></t<>		EPA 8270D by SIM	AJC	19	PASI-PA	
30265204014         LTMW-S08-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           EPA 8270D by SIM         AJC         19         PASI-PA           EPA 8260C         JAS         10         PASI-PA           EPA 335.4         LEP         1         PASI-PA           EPA 335.4         LEP         1         PASI-PA           EPA 8270D by SIM         AJC         19         PASI-PA           EPA 8270D by SIM         AJC         19         PASI-PA           EPA 8260C         JAS         10         PASI-PA           EPA 8260C         JAS         10         PASI-PA           EPA 8260C         JAS         10         PASI-PA           B0265204016         LTMW-S10-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           EPA 8270D by SIM         AJC         19         PASI-PA           B0265204017         LTMW-S10-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           EPA 8260C         JAS         10         PASI-PA           B0265204017         LTMW-S10-MS-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           B0265204018         LTMW-S10-MSD-			EPA 8260C	JAS	10	PASI-PA
EPA 8270D by SIM       AJC       19       PASI-PA         EPA 8260C       JAS       10       PASI-PA         EPA 335.4       LEP       1       PASI-PA         EPA 335.4       LEP       1       PASI-PA         EPA 335.4       LEP       1       PASI-PA         EPA 8270D by SIM       AJC       19       PASI-PA         EPA 8270D by SIM       AJC       19       PASI-PA         EPA 8270D by SIM       AJC       19       PASI-PA         EPA 8260C       JAS       10       PASI-PA         EPA 8270D by SIM       AJC       19       PASI-PA         EPA 8260C       JAS       10       PASI-PA         EPA 826			EPA 335.4	LEP	1	PASI-PA
EPA 8260C         JAS         10         PASI-PA           0265204015         LTMW-S09-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           0265204015         LTMW-S09-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           EPA 8270D by SIM         AJC         19         PASI-PA           EPA 8260C         JAS         10         PASI-PA           EPA 335.4         LEP         1         PASI-PA           EPA 335.4         LEP         1         PASI-PA           6265204016         LTMW-S10-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           6265204016         LTMW-S10-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           6265204017         LTMW-S10-MS-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           6265204017         LTMW-S10-MS-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           6265204017         LTMW-S10-MSD-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           6265204017         LTMW-S10-MSD-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           6265204018 </td <td rowspan="2">30265204014 LTMW-S08-0918</td> <td>LTMW-S08-0918</td> <td>200.7 Rev4.4, 1994</td> <td>CTS</td> <td>3</td> <td>PASI-PA</td>	30265204014 LTMW-S08-0918	LTMW-S08-0918	200.7 Rev4.4, 1994	CTS	3	PASI-PA
D265204015         LTMW-S09-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           0265204015         LTMW-S09-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           EPA 8270D by SIM         AJC         19         PASI-PA           EPA 335.4         LEP         JAS         10         PASI-PA           EPA 335.4         LEP         JAS         10         PASI-PA           EPA 335.4         LEP         1         PASI-PA           EPA 335.4         LEP         1         PASI-PA           EPA 8260C         JAS         19         PASI-PA           EPA 8270D by SIM         AJC         19         PASI-PA           EPA 8260C         JAS         10         PASI-PA           EPA 335.4         LEP			EPA 8270D by SIM	AJC	19	PASI-PA
0265204015         LTMW-S09-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           EPA 8270D by SIM         AJC         19         PASI-PA           EPA 8260C         JAS         10         PASI-PA           EPA 335.4         LEP         1         PASI-PA           EPA 335.4         LEP         1         PASI-PA           EPA 8270D by SIM         AJC         3         PASI-PA           EPA 8270D by SIM         AJC         19         PASI-PA           EPA 8260C         JAS         10         PASI-PA           EPA 8260C         JAS         10         PASI-PA           EPA 8270D by SIM         AJC         19         PASI-PA           EPA 8270D by SIM         AJC         19         PASI-PA           EPA 8270D by SIM         AJC         19         PASI-PA           EPA 8260C         JAS         10         PASI-PA           EPA 8260C         JAS         10         PASI-PA			EPA 8260C	JAS	10	PASI-PA
EPA 8270D by SIM         AJC         19         PASI-PA           EPA 8260C         JAS         10         PASI-PA           EPA 335.4         LEP         1         PASI-PA           C65204016         LTMW-S10-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           C65204016         LTMW-S10-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           C65204017         LTMW-S10-MS-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           C65204018         LTMW-S10-MSD-0918			EPA 335.4	LEP	1	PASI-PA
EPA 8260C         JAS         10         PASI-PA           EPA 335.4         LEP         1         PASI-PA           6265204016         LTMW-S10-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           EPA 8270D by SIM         AJC         19         PASI-PA           EPA 8260C         JAS         10         PASI-PA           C65204017         LTMW-S10-MS-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           C65204017         LTMW-S10-MS-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           C65204018         LTMW-S10-MSD-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA<	0265204015	LTMW-S09-0918	200.7 Rev4.4, 1994	CTS	3	PASI-PA
0265204016       LTMW-S10-0918       200.7 Rev4.4, 1994       CTS       3       PASI-PA         0265204016       LTMW-S10-0918       200.7 Rev4.4, 1994       CTS       3       PASI-PA         EPA 8270D by SIM       AJC       19       PASI-PA         EPA 8260C       JAS       10       PASI-PA         EPA 335.4       LEP       1       PASI-PA         EPA 335.4       LEP       1       PASI-PA         EPA 335.4       LEP       1       PASI-PA         EPA 8260C       JAS       10       PASI-PA         EPA 8270D by SIM       AJC       19       PASI-PA         EPA 8260C       JAS       10       PASI-PA         EPA 8260C       JAS       10       PASI-PA         EPA 335.4       LEP       1       PASI-PA         EPA 335.4       LEP       1       PASI-PA         EPA 8270D by SIM       AJC       19       PASI-PA         EPA 8260C       JAS       10       PASI-PA         EPA 8270D by SIM       AJC       19       PASI-PA         EPA 8270D by SIM       AJC       19       PASI-PA         EPA 8260C       JAS       10       PASI-PA <t< td=""><td></td><td></td><td>EPA 8270D by SIM</td><td>AJC</td><td>19</td><td>PASI-PA</td></t<>			EPA 8270D by SIM	AJC	19	PASI-PA
CO265204016         LTMW-S10-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           EPA 8270D by SIM         AJC         19         PASI-PA           EPA 8260C         JAS         10         PASI-PA           EPA 335.4         LEP         1         PASI-PA           CO265204017         LTMW-S10-MS-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           CO265204017         LTMW-S10-MS-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           CO265204017         LTMW-S10-MS-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           EPA 8260C         JAS         10         PASI-PA           EPA 335.4         LEP         1         PASI-PA           C0265204018         LTMW-S10-MSD-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           C0265204018         LTMW-S10-MSD-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           EPA 8260C         JAS         10         PASI-PA           EPA 8260C         JAS         10         PASI-PA           EPA 8260C         JAS         10         PASI-PA           EPA 335.4 <t< td=""><td></td><td></td><td>EPA 8260C</td><td>JAS</td><td>10</td><td>PASI-PA</td></t<>			EPA 8260C	JAS	10	PASI-PA
EPA 8270D by SIM       AJC       19       PASI-PA         EPA 8260C       JAS       10       PASI-PA         EPA 335.4       LEP       1       PASI-PA         EPA 335.4       LEP       1       PASI-PA         EPA 8270D by SIM       AJC       19       PASI-PA         EPA 335.4       LEP       1       PASI-PA         EPA 8270D by SIM       AJC       19       PASI-PA         EPA 8270D by SIM       AJC       19       PASI-PA         EPA 8260C       JAS       10       PASI-PA         EPA 8260C       JAS       10       PASI-PA         EPA 8270D by SIM       AJC       19       PASI-PA         EPA 8260C       JAS       10       PASI-PA         EPA 8270D by SIM       AJC       19       PASI-PA         EPA 8260C       JAS       10       PASI-PA         EPA 335.4       LEP       1       PASI-PA			EPA 335.4	LEP	1	PASI-PA
EPA 8260C       JAS       10       PASI-PA         EPA 335.4       LEP       1       PASI-PA         EPA 335.4       LEP       1       PASI-PA         C0265204017       LTMW-S10-MS-0918       200.7 Rev4.4, 1994       CTS       3       PASI-PA         EPA 8270D by SIM       AJC       19       PASI-PA         EPA 8260C       JAS       10       PASI-PA         EPA 8260C       JAS       10       PASI-PA         EPA 8260C       JAS       10       PASI-PA         EPA 335.4       LEP       1       PASI-PA         EPA 8260C       JAS       10       PASI-PA         EPA 8260C       JAS       10       PASI-PA         EPA 8270D by SIM       AJC       19       PASI-PA         EPA 8270D by SIM       AJC       19       PASI-PA         EPA 8270D by SIM       AJC       19       PASI-PA         EPA 8260C       JAS       10       PASI-PA         EPA 335.4       LEP       1	0265204016	LTMW-S10-0918	200.7 Rev4.4, 1994	CTS	3	PASI-PA
EPA 335.4LEP1PASI-PA20265204017LTMW-S10-MS-0918200.7 Rev4.4, 1994CTS3PASI-PAEPA 8270D by SIMAJC19PASI-PAEPA 8260CJAS10PASI-PAEPA 335.4LEP1PASI-PAEPA 335.4LEP1PASI-PAEPA 8270D by SIMAJC19PASI-PAEPA 8270D by SIMAJC19PASI-PAEPA 8270D by SIMAJC19PASI-PAEPA 8260CJAS10PASI-PAEPA 8260CJAS10PASI-PAEPA 335.4LEP1PASI-PAEPA 335.4LEP1PASI-PAEPA 335.4LEP1PASI-PAEPA 335.4S10PASI-PAEPA 335.4S10PASI-PAEPA 335.4S10PASI-PAEPA 335.4S10PASI-PAEPA 335.4S3PASI-PAEPA 335.4S			EPA 8270D by SIM	AJC	19	PASI-PA
K0265204017         LTMW-S10-MS-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           EPA 8270D by SIM         AJC         19         PASI-PA           EPA 8260C         JAS         10         PASI-PA           EPA 335.4         LEP         1         PASI-PA           20265204018         LTMW-S10-MSD-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           EPA 8260C         JAS         10         PASI-PA           EPA 8270D by SIM         AJC         19         PASI-PA           EPA 8270D by SIM         AJC         19         PASI-PA           EPA 8270D by SIM         AJC         19         PASI-PA           EPA 8260C         JAS         10         PASI-PA           EPA 8260C         JAS         10         PASI-PA           EPA 8260C         JAS         10         PASI-PA           EPA 335.4         LEP         1         PASI-PA           EPA 335.4         LEP         1         PASI-PA           EVA 335.4         S00.7 Rev4.4, 1994         STS         3         PASI-PA			EPA 8260C	JAS	10	PASI-PA
EPA 8270D by SIM       AJC       19       PASI-PA         EPA 8260C       JAS       10       PASI-PA         EPA 335.4       LEP       1       PASI-PA         EPA 335.4       LEP       1       PASI-PA         EPA 8270D by SIM       CTS       3       PASI-PA         EPA 8270D by SIM       AJC       19       PASI-PA         EPA 8260C       JAS       10       PASI-PA         EPA 335.4       LEP       1       PASI-PA         EPA 335.4       LEP       1       PASI-PA         EPA 335.4       State       3       PASI-PA         EPA 335.4       State       3       PASI-PA         EPA 300.7 Rev4.4, 1994       State       3       PASI-PA			EPA 335.4	LEP	1	PASI-PA
EPA 8270D by SIM       AJC       19       PASI-PA         EPA 8260C       JAS       10       PASI-PA         EPA 335.4       LEP       1       PASI-PA         EPA 335.4       LEP       1       PASI-PA         EPA 8270D by SIM       CTS       3       PASI-PA         EPA 8270D by SIM       AJC       19       PASI-PA         EPA 8260C       JAS       10       PASI-PA         EPA 335.4       LEP       1       PASI-PA         EPA 335.4       LEP       1       PASI-PA         EPA 335.4       State       3       PASI-PA         EPA 335.4       State       3       PASI-PA         EPA 300.7 Rev4.4, 1994       State       3       PASI-PA	0265204017	LTMW-S10-MS-0918	200.7 Rev4.4, 1994	CTS	3	PASI-PA
EPA 335.4         LEP         1         PASI-PA           20265204018         LTMW-S10-MSD-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           EPA 8270D by SIM         AJC         19         PASI-PA           EPA 8260C         JAS         10         PASI-PA           EPA 335.4         LEP         1         PASI-PA           EPA 335.4         LEP         1         PASI-PA           EPA 335.4         LEP         1         PASI-PA           EPA 335.4         LEP         3         PASI-PA			EPA 8270D by SIM	AJC	19	PASI-PA
K0265204018         LTMW-S10-MSD-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA           EPA 8270D by SIM         AJC         19         PASI-PA           EPA 8260C         JAS         10         PASI-PA           EPA 335.4         LEP         1         PASI-PA           60265204019         Field Duplicate-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA			EPA 8260C	JAS	10	PASI-PA
EPA 8270D by SIM       AJC       19       PASI-PA         EPA 8260C       JAS       10       PASI-PA         EPA 335.4       LEP       1       PASI-PA         60265204019       Field Duplicate-0918       200.7 Rev4.4, 1994       CTS       3       PASI-PA			EPA 335.4	LEP	1	PASI-PA
EPA 8260C         JAS         10         PASI-PA           EPA 335.4         LEP         1         PASI-PA           0265204019         Field Duplicate-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA	0265204018	LTMW-S10-MSD-0918	200.7 Rev4.4, 1994		3	
EPA 335.4         LEP         1         PASI-PA           80265204019         Field Duplicate-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA			EPA 8270D by SIM	AJC	19	PASI-PA
Big 20265204019         Field Duplicate-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA					10	
B0265204019         Field Duplicate-0918         200.7 Rev4.4, 1994         CTS         3         PASI-PA			EPA 335.4	LEP	1	
EPA 8270D by SIM AJC 19 PASI-PA	30265204019	Field Duplicate-0918	200.7 Rev4.4, 1994		3	
			EPA 8270D by SIM	AJC	19	



Project:National Grid - Rome KingsleyPace Project No.:30265204

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8260C	JAS	10	PASI-PA
		EPA 335.4	LEP	1	PASI-PA
30265204020	Trip Blank	EPA 8260C	JAS	10	PASI-PA



Project: National Grid - Rome Kingsley

Pace Project No.: 30265204

# Method: 200.7 Rev4.4, 1994

Description:200.7 Metals, TotalClient:Groundwater & Environmental Services, Inc. (Syracuse)Date:September 26, 2018

### **General Information:**

19 samples were analyzed for 200.7 Rev4.4, 1994. 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 200.7 Rev4.4, 1994 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:



Project: National Grid - Rome Kingsley

Pace Project No.: 30265204

#### Method: EPA 8270D by SIM

Description:8270D MSSV PAH by SIMClient:Groundwater & Environmental Services, Inc. (Syracuse)Date:September 26, 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.

ip: Benzo(b)fluoranthene and benzo(k)fluoranthene were separated in the check standard but did not meet the resolution criteria in SW846 Method 8270D. Whereas sample results included are reported as individual isomers, the lab and the customer must recognize them as an isomeric pair.

• LTMW-D03-0918 (Lab ID: 30265204005)

## 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: 313603

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30265204016

MH: Matrix spike recovery and/or matrix spike duplicate recovery was above laboratory control limits. Result may be biased high.

- MS (Lab ID: 1531013)
- Acenaphthene
- MSD (Lab ID: 1531014)
  - Acenaphthene



Project:National Grid - Rome KingsleyPace Project No.:30265204

Method:EPA 8270D by SIMDescription:8270D MSSV PAH by SIMClient:Groundwater & Environmental Services, Inc. (Syracuse)Date:September 26, 2018

Additional Comments:



Project: National Grid - Rome Kingsley

Pace Project No.: 30265204

# Method: EPA 8260C

Description:8260C MSVClient:Groundwater & Environmental Services, Inc. (Syracuse)Date:September 26, 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.

#### QC Batch: 313627

S3: Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated sample.

- Field Duplicate-0918 (Lab ID: 30265204019)
  - 1,2-Dichloroethane-d4 (S)
- LTMW-D04-0918 (Lab ID: 30265204007)
  - 1,2-Dichloroethane-d4 (S)
- LTMW-D06-0918 (Lab ID: 30265204011)
  - 1,2-Dichloroethane-d4 (S)
- LTMW-S06-0918 (Lab ID: 30265204012)
  - 1,2-Dichloroethane-d4 (S)
- LTMW-S07-0918 (Lab ID: 30265204013)
  - 1,2-Dichloroethane-d4 (S)
- LTMW-S08-0918 (Lab ID: 30265204014)

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• 1,2-Dichloroethane-d4 (S)
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- LTMW-S09-0918 (Lab ID: 30265204015)
  - 1,2-Dichloroethane-d4 (S)

ST: Surrogate recovery was above laboratory control limits. Results may be biased high.

• Field Duplicate-0918 (Lab ID: 30265204019)

- 1,2-Dichloroethane-d4 (S)
- LTMW-D03-0918 (Lab ID: 30265204005)
  - 1,2-Dichloroethane-d4 (S)
- LTMW-D04-0918 (Lab ID: 30265204007)
  - 1,2-Dichloroethane-d4 (S)
- LTMW-D06-0918 (Lab ID: 30265204011)
  - 1,2-Dichloroethane-d4 (S)
- LTMW-S05-0918 (Lab ID: 30265204010)



Project: National Grid - Rome Kingsley

Pace Project No.: 30265204

Method:	EPA 8260C
Description:	
Client: Date:	Groundwater & Environmental Services, Inc. (Syracuse) September 26, 2018
Dale.	September 20, 2016
QC Batch: 31	3627
ST: S	urrogate recovery was above laboratory control limits. Results may be biased high.
	• 1,2-Dichloroethane-d4 (S)
• 🗋	TMW-S06-0918 (Lab ID: 30265204012)
	• 1,2-Dichloroethane-d4 (S)
• L	TMW-S07-0918 (Lab ID: 30265204013)
	• 1,2-Dichloroethane-d4 (S)
• L	TMW-S08-0918 (Lab ID: 30265204014)
	• 1,2-Dichloroethane-d4 (S)
• []	TMW-S09-0918 (Lab ID: 30265204015)
	• 1,2-Dichloroethane-d4 (S)
• []	TMW-S10-MS-0918 (Lab ID: 30265204017)
	• 1,2-Dichloroethane-d4 (S)
• []	TMW-S10-MSD-0918 (Lab ID: 30265204018)
	• 1,2-Dichloroethane-d4 (S)
• N	IS (Lab ID: 1531103)
	• 1,2-Dichloroethane-d4 (S)
• IV	ISD (Lab ID: 1531104)
	• 1,2-Dichloroethane-d4 (S)
QC Batch: 31	3802
ST: S	urrogate recovery was above laboratory control limits. Results may be biased high.
• B	LANK (Lab ID: 1532009)
	• 1,2-Dichloroethane-d4 (S)
• L	CS (Lab ID: 1532010)
	• 1,2-Dichloroethane-d4 (S)
• []	TMW-D01-0918 (Lab ID: 30265204001)
	• 1,2-Dichloroethane-d4 (S)
Method Blan	к:

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:



Project: National Grid - Rome Kingsley

Pace Project No.: 30265204

### Method: EPA 335.4

Description:335.4 Cyanide, TotalClient:Groundwater & Environmental Services, Inc. (Syracuse)Date:September 26, 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.



Project:National Grid - Rome KingsleyPace Project No.:30265203

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30265203001	Effluent System 0918	200.7 Rev4.4, 1994	CTS	8	PASI-PA
		245.1 Rev. 3.0, 1994	CTS	1	PASI-PA
		EPA 8270D by SIM	AJC	18	PASI-PA
		EPA 8260C	JAS	41	PASI-PA
		SM4500H+B-2011	ZMH	1	PASI-PA
		EPA 335.4	LEP	1	PASI-PA
30265203002	Trip Blank	EPA 8260C	JAS	41	PASI-PA



Project: National Grid - Rome Kingsley

Pace Project No.: 30265203

# Method: 200.7 Rev4.4, 1994

Description:200.7 Metals, TotalClient:Groundwater & Environmental Services, Inc. (Syracuse)Date:September 26, 2018

#### **General Information:**

1 sample was analyzed for 200.7 Rev4.4, 1994. 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 200.7 Rev4.4, 1994 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:



Project: National Grid - Rome Kingsley

Pace Project No.: 30265203

#### Method: 245.1 Rev. 3.0, 1994

 Description:
 245.1 Mercury

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

 Date:
 September 26, 2018

#### **General Information:**

1 sample was analyzed for 245.1 Rev. 3.0, 1994. 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 245.1 Rev. 3.0, 1994 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:

Analyte Comments:

# QC Batch: 313695

- 1c: The PDS recovery was outside of the laboratory control limits. Result may be biased high.
  - Effluent System 0918 (Lab ID: 30265203001)

Mercury



Project: National Grid - Rome Kingsley

Pace Project No.: 30265203

# Method: EPA 8270D by SIM

Description:8270D MSSV PAH by SIMClient:Groundwater & Environmental Services, Inc. (Syracuse)Date:September 26, 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: 313603

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30265204016

- MH: Matrix spike recovery and/or matrix spike duplicate recovery was above laboratory control limits. Result may be biased high.
  - MS (Lab ID: 1531013)
    - Acenaphthene
  - MSD (Lab ID: 1531014)
    - Acenaphthene

Additional Comments:



Project: National Grid - Rome Kingsley

Pace Project No.: 30265203

# Method: EPA 8260C

Description:8260C MSVClient:Groundwater & Environmental Services, Inc. (Syracuse)Date:September 26, 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: 314258

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

- BLANK (Lab ID: 1534053)
  - 2-Hexanone
- Effluent System 0918 (Lab ID: 30265203001)
- 2-Hexanone
- LCS (Lab ID: 1534054)
  - 2-Hexanone
- MS (Lab ID: 1534055)
  - 2-Hexanone
- MSD (Lab ID: 1534056)
  - 2-Hexanone
- Trip Blank (Lab ID: 30265203002)
  - 2-Hexanone

# 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.



Project: National Grid - Rome Kingsley

Pace Project No.: 30265203

# Method: EPA 8260C

Description:8260C MSVClient:Groundwater & Environmental Services, Inc. (Syracuse)Date:September 26, 2018

# QC Batch: 314258

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30264929002

R1: RPD value was outside control limits.

• MSD (Lab ID: 1534056)

Acetone

Additional Comments:



Project: National Grid - Rome Kingsley

Pace Project No.: 30265203

#### Method: SM4500H+B-2011

Description:4500H+ pH, ElectrometricClient:Groundwater & Environmental Services, Inc. (Syracuse)Date:September 26, 2018

#### **General Information:**

1 sample was analyzed for SM4500H+B-2011. 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 0918 (Lab ID: 30265203001)
- H6: Analysis initiated outside of the 15 minute EPA required holding time.
  - Effluent System 0918 (Lab ID: 30265203001)

#### 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:



Project: National Grid - Rome Kingsley

Pace Project No.: 30265203

### Method: EPA 335.4

Description:335.4 Cyanide, TotalClient:Groundwater & Environmental Services, Inc. (Syracuse)Date:September 26, 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.