

2020 Periodic Review Report

Oneonta Former MGP Site

NYSDEC Site Number: 4-39-001

January 2021

2020 PERIODIC REVIEW REPORT

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Contents

Acronyms and Abbreviations	iii
Executive Summary	1
1 Introduction.....	1
1.1 Background.....	1
1.1.1 Remediation Construction.....	1
1.1.2 Post-Remediation Groundwater Treatment.....	1
1.1.3 SMP Revisions	2
1.1.4 Emerging Contaminant Sampling.....	2
1.2 Objectives.....	2
2 Effectiveness Monitoring and Results	4
2.1 Potentiometric Surfaces and Groundwater Flow	4
2.2 NAPL Monitoring	5
2.3 Groundwater Quality	5
2.3.1 Dissolved BTEX	6
2.3.2 Dissolved PAHs	6
3 Operation and Maintenance	8
3.1 Well Network	8
3.1.1 Well Repairs	8
3.1.2 Depth to Bottom Assessment	8
3.2 Annual Site Inspection.....	10
4 Disturbance Activities in Potentially Impacted Areas	11
5 Conclusions and Recommendations	12
5.1 Conclusions	12
5.2 Recommendations	12
6 CERTIFICATION STATEMENT.....	14
7 References	15

TABLES

Table 1. Monitoring, Operation and Maintenance Tasks

Table 2. Gauging Data

Table 3. Groundwater Analytical Results

FIGURES

Figure 1. Site Location Map

Figure 2. Permeable Wall and Associated Wells

Figure 3. Water Table Figure – June 15, 2020

Figure 4. Water Table Figure – November 17, 2020

Figure 5. Total BTEX Concentrations in Groundwater

Figure 6. Total PAH Concentrations in Groundwater

Figure 7. Photograph Orientation

APPENDICES

- A Absorbent Socks Photographic Log**
- B Laboratory Data Packages**
- C DUSRs**
- D Graphs**
- E Well Photographic Logs**
- F Site Inspection Photographic Logs**
- G Certification Statements**

Acronyms and Abbreviations

AW	application well
BTEX	benzene, toluene, ethyl benzene, and xylenes
DUSRs	Data Usability Summary Reports
GWSQ	Groundwater Quality Standards
MGP	manufactured gas plant
MW	monitoring well
NAPL	non-aqueous phase liquid
NRWs	NAPL recovery wells
NYSDEC	New York State Department of Environmental Conservation
NYSEG	New York State Electric and Gas
O&M	operation and maintenance
PAH	polycyclic aromatic hydrocarbon
PFAS	per- and polyfluoroalkyl substances
PMWs	performance monitoring wells
PRR	Periodic Review Report
ROD	Record of Decision
SMP	Site Management Plan
USEPA	United States Environmental Protection Agency

Executive Summary

This Periodic Review Report (PRR) summarizes the January 2020 through December 2020 reporting period effectiveness monitoring and operation and maintenance (O&M) activities and results for the New York State Department of Environmental Conservation- (NYSDEC-) selected remedy for the New York State Electric and Gas (NYSEG) Oneonta former manufactured gas plant (MGP) site. The former MGP site is located on James Georgeson Avenue (in Neahwa Park) in the southern portion of the City of Oneonta, Otsego County, New York (Figure 1).

The NYSDEC-selected soil, sediment, and groundwater remedial components are presented in the Record of Decision (NYSDEC 2005) (ROD). The soil remedy consisted of excavation and off-site disposal of soil within the former MGP footprint that contained MGP-tar or elevated concentrations of polycyclic aromatic hydrocarbons (PAHs), backfilling the excavation with approved fill materials, and finishing the ground surface with crushed stone and/or asphalt. The sediment remedy consisted of excavation and off-site disposal of sediment that contained MGP-tar or concentrations of PAHs greater than upstream background concentrations, and backfilling portions of Mill Race Creek. The soil and sediment remedies for the site were completed by NYSEG in 2007.

The groundwater remedy consisted of:

- Passive removal of drainable MGP-related non-aqueous phase liquid (NAPL), when identified.
- In-situ treatment of groundwater.

NYSEG completed construction of a permeable wall associated with the groundwater remedy in December 2007, followed by start-up of groundwater treatment (i.e., oxygen enhanced in situ microbial degradation) in May 2008. Based on review of the initial five-year treatment system performance and effectiveness monitoring data (2008 through 2013), NYSDEC approved a five-year oxygen-enhancement suspension beginning in November 2013 (Q22), while NYSEG collected monitoring data to document the resulting effect on groundwater quality at the dissolved-phase impacts plume fringe.

Periodic Review Report (Q39 – Q42) (Arcadis 2019a) presented five years of effectiveness monitoring data following suspension of oxygen-releasing material placement. Based on data collected during the five-year period, in May 2019 the NYSDEC approved an additional five-year oxygen-enhancement suspension, along with a request to remove three monitoring wells (MW-9110S, MW-8807S, and MW-8808S) from the semi-annual and annual sampling requirements (NYSDEC 2019). This PRR represents the seventh annual report since oxygen-enhancement suspension.

Effectiveness monitoring, NAPL gauging, and O&M activities for the reporting period (Q48 and Q50 site visits) were conducted in accordance with the Site Management Plan (SMP) (Arcadis 2014a) and the SMP Addendum (Arcadis 2019b). Based on data collected during the reporting period:

- The requirements for effectiveness monitoring were met.
- NAPL was not detected in either of the two site NAPL recovery wells (NRWs), and the sorbent socks installed in application well (AW) AW-12 have been successful at removing the quantity of NAPL entering the well.
- There is an overall decreasing trend in total benzene, toluene, ethyl benzene, and xylenes (BTEX) and PAH groundwater concentrations since oxygen-enhancement suspension.
- Q50 (semi-annual) groundwater sample laboratory analytical results for monitoring well MW-8806S indicated BTEX at concentrations exceeding groundwater quality standards; however, this result is consistent within the range of BTEX concentrations detected during historical sampling events and consistent with historical

trends observed at the site (i.e., greater BTEX concentrations detected during the semi-annual event and decreased BTEX concentrations detected during annual event). In addition, the exceedances detected in MW-8806S during this event could also be associated with the recent construction/renovation activities to Damaschke field conducted in late 2019 (as discussed in Section 5). BTEX during the Q48 (annual) sampling event and PAHs detected during both the Q48 (annual) and Q50 (semi-annual) in groundwater at monitoring well MW-8806S did not exceed groundwater quality standards. Based on the location of this well (i.e., located approximately 50 feet downgradient from the former treatment area), historical and recent data provides strong evidence that suspension of oxygen enhancement has not had a negative effect on downgradient dissolved concentrations.

Recommendations for future monitoring activities, based on operation and monitoring of the site remedy during the reporting period, include:

- Continued semi-annual effectiveness monitoring as described in the SMP.
- Continued sorbent sock maintenance to passively remove accumulated NAPL in AW-12. Sorbent sock replacement should continue on a semi-annual basis.
- Continued semi-annual and annual monitoring well (MW), performance monitoring well (PMW), NRW, AW, staff gauge, and piezometer gauging as described in the SMP.
- Analyze groundwater samples collected from monitoring well MW-9111S for per- and polyfluoroalkyl substances (PFAS) on a triennial basis, with the first sample to be collected in May 2022.
- Continued site inspections and site maintenance as described in the SMP.
- Continued annual PRR preparation as described in the NYSDEC's December 19, 2016 letter correspondence to NYSEG.

1 Introduction

This Periodic Review Report (PRR) summarizes the January 2020 through December 2020 reporting period effectiveness monitoring and operation and maintenance (O&M) activities and results for the New York State Department of Environmental Conservation- (NYSDEC-) selected remedy for the New York State Electric and Gas (NYSEG) Oneonta former manufactured gas plant (MGP) site. The former MGP site is located on James Georgeson Avenue (in Neahwa Park) in the southern portion of the City of Oneonta, Otsego County, New York (Figure 1).

This PRR includes data collected during the June 2020 (Q48) and November 2020 (Q50) site visits. Please note, the Q48 site visit was scheduled to be conducted in May, however, was postponed due to state travel restrictions in response to the COVID-19 pandemic.

Certification that site controls were in place and effective, and no changes have occurred at the site during this reporting period that would impair the ability of the controls to protect public health and the environment is included herein.

1.1 Background

Relevant site background information is presented in the following subsections.

1.1.1 Remediation Construction

The NYSDEC-selected soil, sediment, and groundwater remedial components are presented in the ROD (NYSDEC 2005). The soil remedy consisted of excavation and off-site disposal of soil within the former MGP footprint that contained MGP-tar or elevated concentrations of PAHs, backfilling the excavation with approved fill materials, and finishing the ground surface with crushed stone and/or asphalt. The sediment remedy consisted of excavation, off-site disposal, and backfilling portions of Mill Race Creek. The soil and sediment remedies for the site were completed by NYSEG in 2007.

The groundwater remedy consists of two components:

- Passive removal of drainable MGP-related NAPL, when identified.
- In-situ treatment of groundwater.

NYSEG completed construction of a permeable wall associated with the groundwater remedy in December 2007 during soil remediation backfilling operations. AW, PMW, and NRW installation was completed in March 2008, followed by in-situ groundwater treatment start-up in May 2008. Site well construction details are provided in the NYSDEC-approved SMP (Arcadis 2014a). The permeable wall and associated site well network locations are presented on Figure 2.

1.1.2 Post-Remediation Groundwater Treatment

In-situ groundwater treatment completed during the first five years of system operation (2008 through 2013) consisted of increasing the groundwater dissolved oxygen content (i.e., through application of oxygen releasing compounds – Adventus ECH-O oxygen-releasing socks) to enhance natural

biodegradation of dissolved-phase MGP-related contaminants. Based on review of the initial five-year treatment system performance and effectiveness monitoring data, the NYSDEC approved suspension of oxygen enhancement of groundwater for a five-year period beginning in November 2013 (Q22), while continuing to collect monitoring data to document the resulting effect on groundwater quality at the plume fringe of dissolved-phase impacts.

1.1.3 SMP Revisions

Based on the data collected during the five-year period following enhanced biodegradation groundwater treatment suspension, the NYSDEC approved the Site Management Plan Addendum (SMP Addendum, Arcadis 2019b) that included a request for an additional five-year groundwater treatment suspension. NYSDEC's May 29, 2019 letter to NYSEG requested that NYSEG revise the SMP to incorporate modifications provided in the SMP Addendum and update the SMP to the current NYSDEC SMP template. The revised SMP is currently being drafted. This PRR represents the seventh annual report since suspension of oxygen enhancement of groundwater.

The SMP (forthcoming, revised) and SMP Addendum presents protocols for conducting the following activities during the third five-year period of the site remedy (January 2019 through December 2023):

- Effectiveness monitoring to document site-wide groundwater quality.
- Monitoring for and removing NAPL, if encountered.
- O&M of the site's well network.
- Implementing notification and procedural requirements for conducting soil disturbance activities within areas potentially containing MGP-impacted material, as applicable.
- Considering vapor intrusion potential if structures within areas potentially containing residual MGP-impacts are developed in the future.
- Minimum health and safety requirements for contractors performing work within areas potentially containing residual MGP impacts.
- Completed site activity reporting requirements.

1.1.4 Emerging Contaminant Sampling

In response to NYSDEC's May 30, 2018 letter to NYSEG, during the November 2019 semi-annual site visit, groundwater samples from three monitoring wells (MW-0201, MW-9111S, and MW-9114S) were submitted for analysis of emerging contaminants: per- and polyfluoroalkyl substances (PFAS) and 1,4-Dioxane. Emerging contaminant sampling results were presented in Arcadis' January 3, 2020 letter report to NYSDEC. As requested in NYSDEC's June 18, 2020 letter to NYSEG (NYSDEC 2020) and subsequently clarified in NYSDEC's email August 28, 2020, groundwater samples collected from monitoring well MW-9111S will be analyzed for PFAS on a triennial basis, beginning in May 2022.

1.2 Objectives

As presented in the SMP and SMP Addendum, the objectives of the groundwater remedy for the third five-year monitoring period are to:

2020 PERIODIC REVIEW REPORT

- Passively remove recoverable NAPL, if encountered.
- Assess groundwater movement patterns at the site.
- Monitor groundwater quality to document dissolved BTEX and PAH concentrations at the dissolved-phase impact's plume fringe.

To document achieving the objectives, this PRR presents the following:

- Site-wide data collected during the monitoring period including groundwater analytical data and groundwater and surface elevation data.
- Conclusions and recommendations for modifications to the monitoring requirements, if required.

For comparison purposes, and to support the conclusions and recommendations presented in Section 5, data collected during the previous site visits are included in tables, where appropriate. Effectiveness monitoring, NAPL gauging, and O&M activities for the current reporting period were conducted in accordance with the SMP and SMP Addendum and are presented in this PRR.

2 Effectiveness Monitoring and Results

A summary of the monitoring, gauging, and O&M tasks completed during the monitoring period covered by this PRR is presented in Table 1.

Table 1 – Effectiveness Monitoring, Operation, and Maintenance Tasks

Event	Dates Completed	Effectiveness Monitoring	NAPL Gauging	Site Inspection	Well Inspections
Q47 Monitoring (Annual)	June 15-17, 2020	X	X	X	X
Q50 Monitoring (Semi-Annual)	November 17-19, 2020	X	X		X

As described in the SMP and SMP Addendum, along with NYSDEC-approved modifications to the effectiveness monitoring program presented in previous PRRs, effectiveness monitoring during the reporting period consisted of:

- Semi-annual groundwater and surface water elevation measurement in 14 PMWs, 14 MWs, four staff gauges, and four piezometers.
- Semi-annual groundwater sampling from 10 MWs for BTEX and PAH analysis.

As presented in the ROD, BTEX data is used to evaluate the groundwater remedy effectiveness; however, for completeness, PAH data is also collected and evaluated. Effectiveness monitoring results are presented below.

2.1 Potentiometric Surfaces and Groundwater Flow

To document groundwater elevation and flow direction, field personnel measured the relative depth to groundwater and surface water from surveyed points semi-annually (i.e., Q48 and Q50) from the following locations, as described in the SMP:

- 14 performance monitoring wells (PMW-01 through PMW-14).
- 14 site monitoring wells (MW-0201, MW-0203, MW-0301, MW-8604S, MW-8806S, MW-8807S, MW-8808S, MW-9110S, MW-9111S, MW-9112D, MW-9112S, MW-9114S, MW-9502S, and PTMW-0202).
- Four staff gauges (SG-105, SG-107, SG-110, and SG-111).
- Four piezometers (PZ-0801, PZ-0802, PZ-0803, and PZ-105).

Water elevations measured during this reporting period, along with previously measured elevations are summarized in Table 2.

The potentiometric surface and groundwater flow direction for the June 2020 (Q48 annual) gauging event is presented on Figure 3 and the potentiometric surface and groundwater flow direction for the November 2020 (Q50 semi-annual) gauging event is presented on Figure 4. As shown on the figures, the general groundwater flow direction at the site was to the south and southwest during each gauging event. When

compared to potentiometric surface maps prepared for the previous years, no significant change to site-wide groundwater flow direction has occurred.

2.2 NAPL Monitoring

Field personnel gauged two NRWs (NRW-01 and NRW-02) for the potential presence of NAPL and changed-out the sorbent sock in AW-12 during both of the monitoring events. Locations of existing wells NRW-01, NRW-02, and AW-12, along with the locations of abandoned NRWs (NRW-03 and NRW-04) are shown on Figure 2.

NAPL gauging data are presented in Table 2. NAPL was not observed in either NRW during the reporting period. As presented in Table 2, to date (i.e., since first gauged in April 2008), NAPL has not been observed in either of the NRWs).

As recommended in the sixth Annual Report (Q21-Q24) (Arcadis 2014b), a NAPL sorbent sock was installed in AW-12 during the Q26 site visit to passively remove NAPL. The sorbent sock is removed, and a new sock reinstalled during each semi-annual site visit. During the Q48 site visit, approximately 15% of the outer surface of the sorbent material was coated with NAPL; none of the sock was saturated with NAPL; and the bottom 6 inches of the canister was coated with NAPL. During the Q50 site visit, approximately 25% of the outer surface of the sorbent material was coated with NAPL; none of the sock was saturated with NAPL; and the bottom approximate 3 inches of the canister was coated with NAPL. The recovered sorbent socks were containerized and staged in the secure on-site shed for disposal by NYSEG. Photographs of the spent sorbent socks from each site visit during the reporting period are included as Appendix A.

2.3 Groundwater Quality

An ongoing groundwater monitoring program has been conducted since 1986 (i.e., prior to implementing the site remedy). As presented in the Supplemental Remedial Investigation Report (BBL 2004), based on long-term monitoring data, the extent of impacted groundwater at that time appeared to be stable due to a variety of naturally occurring processes, including dilution, hydrophobic sorption, and in-situ biodegradation.

During the reporting period, groundwater samples collected from 10 MWs were submitted to Eurofins TestAmerica Laboratories located in Amherst, New York for analysis of:

- BTEX by United States Environmental Protection Agency (USEPA) SW-846 Method 8260.
- PAHs by USEPA SW-846 Method 8270.

Analytical results are summarized in Table 3. For comparison purposes, baseline groundwater quality results collected in April 2008 and groundwater analytical results for samples collected for the subsequent 11 years of monitoring (i.e., Q1 through Q46), as well as historical data from 2003, are also included in the table.

Arcadis reviewed the laboratory data packages for the Q48 and Q50 sampling events, conducted data validation, and prepared Data Usability Summary Reports (DUSRs) for both monitoring events. Data review indicated that overall laboratory performance was acceptable, and that the overall data quality was

within guidelines specified in the respective methods. The laboratory reports are included as Appendix B and the DUSRs are included as Appendix C.

Groundwater analytical results for BTEX and PAHs are summarized below.

2.3.1 Dissolved BTEX

Groundwater analytical results for dissolved BTEX are summarized in Table 3 and shown on Graph 1 (Appendix D). Additionally, dissolved total BTEX data from 2020 and the previous ten years of groundwater sample are presented on Figure 5. As shown on Figure 5, nine of the wells currently sampled are located around the study area perimeter (for discussion purposes MW-8806S is not considered a perimeter well). For the two sampling events included in this reporting period:

- During the Q48 (June) sampling event, BTEX was detected at concentrations greater than NYSDEC groundwater quality standards (GWQS) in groundwater collected from three of the nine perimeter wells (MW-0201, MW-8604S, and PTMW-0202).
- During the Q50 (November) sampling event, BTEX was detected at concentrations greater than GWQS in groundwater from three of the nine perimeter wells (MW-0201, MW-9111S, and PTMW-0202).
- Total BTEX concentrations have continued an overall decreasing trend or remained below detection limits for all perimeter wells, except PTMW-0202.
- Total BTEX concentrations at PTMW-0202 continue to fluctuate with an overall (slight) increasing trend.
- At “internal” well MW-8806S (located approximately 50 feet downgradient from the former treatment area), total BTEX concentrations increased during the Q50 sampling event with benzene, ethylbenzene, and total xylenes exceeding GWQS. The exceedances observed in MW-8806S during the Q50 event are consistent with historical trends observed at the site (i.e., greater BTEX concentrations detected during the semi-annual event and decreased BTEX concentrations detected during the annual event) and could also be associated with the Damaschke Field construction/renovation activities conducted in late 2019 and discussed in more detail in Section 4. These activities caused disturbance to subsurface soil in areas just outside of the Oneonta former MGP footprint; however, disturbances were below the groundwater table and within the Off-Site Excavation Advisory Area as defined in the SMP.
- As indicated above, detected BTEX concentrations during the Q48 (June) annual sampling event were generally less than the Q50 (November) semi-annual sampling event. This is consistent with historical site trends, which indicate greater BTEX concentrations during the semi-annual event.

2.3.2 Dissolved PAHs

Laboratory data for dissolved PAHs are summarized in Table 3 and shown on Graph 2 (Appendix D). In addition, dissolved total PAH data from 2020 and the previous ten years of groundwater sampling are presented on Figure 6.

As shown on Figure 6, nine of the monitoring wells that are currently sampled are located around the study area perimeter (again, for discussion purposes MW-8806S is not considered a perimeter well). For the two sampling events included in this reporting period:

2020 PERIODIC REVIEW REPORT

- During both the Q48 (June) and Q50 (November) sampling events, PAHs were detected above GWQS in groundwater from one of the nine perimeter wells (i.e., PTMW-0202).
- PAH concentrations in PTMW-0202 have continued to fluctuate, with an overall decreasing trend observed since 2017.
- PAH analytes were not detected above GWQS in groundwater sampled from “internal” well MW-8806S (located approximately 50 feet downgradient from the former treatment area) during either the Q48 or Q50 sampling events.
- Similar to the trends observed for BTEX concentrations, detected PAH concentrations during the Q48 (June) annual sampling event were generally less than the (Q50) November semi-annual sampling event. This is consistent with historical site trends, which indicate greater PAH concentrations during the semi-annual event.

3 Operation and Maintenance

The City of Oneonta is responsible for overall maintenance of Neahwa Park and Damaschke Field; however, NYSEG is responsible for maintaining any aspect of the site that is associated with remediation activities for the former MGP.

In addition to routine site maintenance, O&M activities conducted during the reporting period are presented in Table 1 and included:

- Annual inspection of the site well network.
- Comprehensive remedial component and site condition inspection.

A summary of these activities is presented in the following subsections.

3.1 Well Network

Completed well repair and inspection activities/findings are presented in the following subsections.

3.1.1 Well Repairs

Arcadis completed visual inspections of site wells (MWs, PMWs, NRWs, AWs, piezometers, and staff gauges) during the annual (Q48) site visit to confirm that the integrity of protective road boxes and surrounding concrete collars were maintained, locks were existing, and to identify potential repairs. Photographic documentation of the condition of each well associated with the site, including protective covers, locking devices, and overall integrity of the well is provided as Appendix E.

Arcadis performed the following repairs during the semi-annual (Q50) site visit:

- Replacing the PMW-02 locking well cap.
- Re-tapping threads in the road box bolt tabs at MW-8808S, MW-8808D, MW-9110S, MW-911S, MW-9112D, MW-9114S, and PZ-0803.
- Cutting down the polyvinyl chloride riser at MW-9502S, PMW-01, PMW-07, and PMW-12 (locations will be resurveyed in 2021).
- Applying cold patch asphalt around the road boxes at AW-07, AW-08, AW-09, AW-10, PMW-05, PMW-06, PMW-09, PMW-10, PMW-11, and PMW-13 to address ground surface settling.

During visual inspection of site wells, Arcadis observed that bolt tabs in the surface completions at MW-9112S and MW-9114D were broken or missing and the well cover could not be properly secured. Arcadis recommends replacing the surface completions (flush-mounted road box and concrete apron) at these locations.

3.1.2 Depth to Bottom Assessment

Depth to bottom measurements and accumulated thickness of sediments (e.g., silts, sands) for each well were measured and are included in Table 2. Depth to bottom measurements were compared to the installed depth as reported on each well's construction logs to determine if re-development is needed.

The most recent depth to bottom measurements for the AWs were collected during the annual (Q48) event and the most recent depth to bottom measurements for the remaining wells and staff gauges were collected during the semi-annual (Q50) event. A summary of the most recent gauging event results is provided below.

- Monitoring Wells:
 - o 11 of the 14 wells did not contain measurable amounts of accumulated sediments.
 - o 3 wells (MW-0203, MW-9109S, and MW-9111S) had less than 1-foot of accumulated sediments based on the installed depth and length of screened interval.
- Application Wells:
 - o 14 of the 16 AWs had some sediment accumulation, ranging from 0.06 feet (AW-01) to 2.46 feet (AW-14).
 - o These noted sediment accumulations are consistent with quantities previously reported; therefore, do not appear to be significantly increasing. AW-14 has only 4 feet of screen length and historically has had greater than 2 feet of sediment following re-development; past re-development efforts have been unsuccessful at reducing the quantity of sediments in the well.
- Performance Monitoring Wells:
 - o 5 of the 14 PMWs contained some amount of accumulated sediments, ranging from 0.02 feet (PMW-03, PMW-04, and PMW-11) to 0.51 feet (PMW-07).
 - o These quantities of sedimentation are consistent with quantities previously reported; therefore, do not appear to be significantly increasing.
- Piezometers:
 - o Accumulated sediment in the piezometers ranged from 0.02 feet (PZ-0803) to 1.1 feet (PZ-0801).
 - o The accumulated sediments at PZ-0801 is consistent with historical results dating back to May 2015.
 - o Piezometer PZ-105 (located near the northwest edge of Neahwa Pond) is generally dry; historically, when present, water has typically been recorded from 0.1 to 0.8 feet since 2008. PZ-105 contained 0.16 feet of water during the Q48 site visit and was dry during the Q50 site visit. Approximately 0.4 feet of sediment was measured in PZ-105. Historically, this piezometer exhibits siltation of approximately 0.36 to 0.42 feet (even when dry). Therefore, it is likely that either the surveyed depth to bottom is inaccurate or there is consistent and unchanging siltation or an obstruction in the bottom.
- Staff Gauges – The four staff gauges (SG-105, SG-107, SG-110, and SG-111) were present and in good condition during the annual (Q48) site visit; however, bank erosion has occurred near SG-110 and it should be reset and re-surveyed.

3.2 Annual Site Inspection

Arcadis completed an annual site inspection on June 15, 2020. During the annual inspection, areas within the former MGP footprint were inspected for sparse vegetation, erosion, settling, and damaged asphalt (including, but not limited to, cracks and depressions). A photographic log documenting the site conditions at the time of the annual inspection is included as Appendix F. The location where each photograph was taken, and the direction that the photographer was facing, is shown on Figure 7. The annual site inspection indicated that the site cover is in good condition, and:

- Maintenance to the soil cover across the site was not required.
- Maintenance to the asphalt surface above the groundwater treatment system was not required.
- Drainage features were clear of obstructions.

Inspections of the site wells and staff gauges were also conducted during the annual site visit. No significant deficiencies were identified during this reporting period; however, several minor repairs/maintenance actions are required, as identified in the Recommendations section (Section 5), below.

4 Disturbance Activities in Potentially Impacted Areas

The City of Oneonta performed renovation activities to Damaschke Field in 2019. Renovations included demolition of existing structures and construction of new facilities. A portion of the renovations included installation of a new safety netting system, which required installing multiple concrete pier foundations and subsurface soil disturbance. Disturbed soil areas were outside the footprint of the Oneonta former MGP site, extended below the groundwater table, and were within the Off-Site Excavation Advisory Area, as defined in the SMP. One of the pole foundations was located within approximately 10 feet of MW-8806S.

Portions of the renovations occurring in the Off-site Excavation Advisory Area requiring observation and documentation were conducted between October 28 through November 4, 2019. A separate report presenting details associated with observations, soil disposition, and air monitoring results was submitted to the NYSDEC under separate cover on July 9, 2020.

5 Conclusions and Recommendations

Conclusions and recommendations based on the seventh year of monitoring following groundwater oxygen-enhancement suspension are presented below.

5.1 Conclusions

A summary of pertinent conclusions is presented below.

- Effectiveness monitoring requirements were met during the reporting period.
- General groundwater flow direction continues to be to the south and southwest; the groundwater movement pattern is consistent with the previous 12 years of monitoring.
- NAPL Monitoring.
 - o NAPL was not detected in either of the two NRWs during the reporting period; NAPL has not been detected in any of the NRWs during the 12 years of monitoring.
 - o The sorbent sock installed in AW-12 was successful at removing the quantity of NAPL entering the well.
- Groundwater Quality
 - o Total BTEX concentrations in groundwater shows an overall decreasing trend since the suspension of oxygen enhancement.
 - o Seasonal changes continue to influence dissolved BTEX and PAH concentrations. Where present, dissolved BTEX and PAH concentrations were generally greater during the semi-annual sampling events when compared to annual sampling events.
- Well Network:
 - o Minor repairs were required and completed during the Q50 site visit. No significant repairs were required.
 - o No significant amounts of accumulated sediments were observed that were not within historical quantities previously reported, respective to each location.
- Annual Site Inspection
 - o The soil cover and asphalt surface above the groundwater treatment system were in good condition; no repairs were required.
 - o Drainage features were clear of obstructions.

5.2 Recommendations

Recommendations based on O&M of the NYSDEC-selected remedy during the reporting period are presented in the following subsections.

- Effectiveness Monitoring
 - o Continue to conduct effectiveness monitoring as described in the SMP.

2020 PERIODIC REVIEW REPORT

- o Continue to install a sorbent sock to passively remove accumulated NAPL in AW-12. Replacement of the sorbent sock should continue to be conducted on a semi-annual basis.
 - o Continue semi-annual and annual gauging of wells and annual sampling of MWs as described in the SMP.
- O&M
 - o Continue to conduct O&M, including site inspections and site maintenance as described in the SMP.
 - o Because past re-development efforts have been unsuccessful at reducing the quantity of sediments in AW-14, and the AWs are currently not in use, no further efforts to remove sediment are considered at this time.
 - o Replace surface completions (including flush-mount road box) at MW-9112S and MW-9114D.
 - o Reinstall and resurvey staff gauge SG-110 on the bank of Mill Race creek near its current location.
 - o Resurvey locations where the riser was cut down (MW-9502S, PMW-01, PMW-07, and PMW-12), SG-110 after reinstallation, and MW-9112S and MW-9114D following surface completion replacement.
- Continue to prepare annual PRRs as described in the NYSDEC's December 19, 2016 letter correspondence to NYSEG, and as described in the SMP and SMP Addendum.
- Analyze groundwater collected from monitoring well MW-9111S for PFAS on a triennial basis, with the first sample collected in May 2022.

6 CERTIFICATION STATEMENT

The completed NYSDEC Site Management PRR Notice Institutional and Engineering Controls Certification Form is included in Appendix G, which certifies that site controls were in place and effective and no changes occurred during the reporting period that would impair the ability of the controls to protect public health and the environment.

7 References

- Arcadis. 2019a. Periodic Review Report (Q39 through Q42). Prepared for New York State Electric & Gas Corporation, Oneonta Former MGP Site, Oneonta New York (January 2019).
- Arcadis. 2019b. Site Management Plan Addendum. Prepared for New York State Electric & Gas Corporation, Oneonta Former MGP Site, Oneonta New York (May 2019)
- Arcadis. 2014a. Site Management Plan. Prepared for New York State Electric & Gas Corporation, Oneonta Former MGP Site, Oneonta, New York (February 2014).
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- BBL. 2004. Supplemental Remedial Investigation Report, Prepared for New York State Electric & Gas Corporation, Oneonta Former MGP Site, Oneonta, New York (May 2004).
- New York State Department of Environmental Conservation. 2005. Record of Decision, NYSEG Oneonta MGP Site, City of Oneonta, Otsego County, New York. Site Number 4-39-001. March 2005.
- New York State Department of Environmental Conservation. 2016. Site Management (SM) Periodic Review Report (PRR) Response Letter, NYSEG – Oneonta MGP, Oneonta. December 19, 2016.
- New York State Department of Environmental Conservation. 2019. Site Management Plan Addendum Response Letter, NYSEG – Oneonta MGP, Oneonta. May 29, 2019.
- New York State Department of Environmental Conservation. 2020. Review of Groundwater Sampling Results for Emerging Contaminants, NYSEG – Oneonta MGP, Oneonta. June 18, 2020.

Tables

Table 2
Gauging Data
2020 Annual Periodic Review Report
NYSEG
Oneonta, New York

Well ID	Measuring Point Elevation	Actual Depth to Bottom	Screen Length	Date	Depth to Water (feet TOC)	Groundwater Elevation	Depth to Product (feet TOC)	Depth to Bottom (feet TOC)	Accumulated Thickness of Sediments (feet)	Percent Screen Occluded By Sediments (%)
MW-9502S	1080.77	23.72	19.0	April 21, 2008	5.56	1075.41	-	24.01	-0.09	0.00
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	-	-	-	-	-	-
				November 10, 2008	7.47	1073.50	-	24.04	-0.12	0.00
				February 17, 2009	-	-	-	-	-	-
				May 11, 2009	6.67	1074.30	-	24.01	-0.09	0.00
				August 5, 2009	6.04	1074.93	-	24.02	-0.10	0.00
				November 30, 2009	6.77	1074.20	-	24.02	-0.10	0.00
				February 24, 2010	7.22	1073.75	-	24.03	-0.11	0.00
				May 17, 2010	6.15	1074.82	-	23.97	-0.05	0.00
				November 1, 2010	5.55	1075.42	-	23.80	0.12	0.63
				May 9, 2011	4.70	1076.07	-	23.80	-0.08	0.00
				November 7, 2011	6.08	1074.69	-	23.81	-0.09	0.00
				May 29, 2012	6.09	1074.68	-	23.82	-0.10	0.00
				November 26, 2012	7.23	1073.54	-	23.88	-0.16	0.00
				May 6, 2013	6.01	1074.76	-	23.77	-0.05	0.00
				November 12, 2013	7.22	1073.55	-	23.75	-0.03	0.00
				May 27, 2014	5.44	1075.33	-	23.76	-0.04	0.00
				November 17, 2014	7.35	1073.42	-	23.75	-0.03	0.00
				May 19, 2015	7.01	1073.76	-	23.74	-0.02	0.00
				November 16, 2015	6.10	1074.67	-	23.78	-0.06	0.00
				May 9, 2016	6.68	1074.09	-	23.74	-0.02	0.00
				November 15, 2016	8.01	1072.76	-	23.75	-0.03	0.00
				May 16, 2017	5.54	1075.23	-	23.75	-0.03	0.00
				November 6, 2017	7.65	1073.12	-	23.75	-0.03	0.00
				May 14, 2018	5.95	1074.82	-	23.75	-0.03	0.00
				November 12, 2018	5.79	1074.98	-	23.75	-0.03	0.00
				May 20, 2019	5.32	1075.45	-	23.73	-0.01	0.00
				November 4, 2019	5.59	1075.18	-	23.74	-0.02	0.00
				June 15, 2020	7.47	1073.30	-	23.79	-0.07	0.00
				November 17, 2020	8.01	1072.76	-	23.72	0.00	0.00
MW-0203*	1075.16	29.58	10.0	April 21, 2008	1.95	1073.21	-	28.82	0.76	5.60
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	-	-	-	-	-	-
				November 10, 2008	3.57	1071.59	-	28.84	0.74	5.40
				February 17, 2009	-	-	-	-	-	-
				May 11, 2009	3.23	1071.93	-	28.80	0.78	5.80
				August 5, 2009	2.29	1072.87	-	28.84	0.74	5.40
				November 30, 2009	3.11	1072.05	-	28.81	0.77	5.70
				February 24, 2010	3.57	1071.59	-	28.81	0.77	5.70
				May 17, 2010	2.64	1072.52	-	29.58	0.00	0.00
				November 1, 2010	1.93	1073.23	-	29.63	-0.05	0.00
				May 9, 2011	1.09	1074.07	-	29.62	-0.04	0.00
				November 7, 2011	2.57	1072.59	-	29.58	0.00	0.00
				May 29, 2012	2.85	1072.31	-	29.66	-0.08	0.00
				November 26, 2012	3.69	1071.47	-	29.62	-0.04	0.00
				May 6, 2013	2.68	1072.48	-	29.54	0.04	0.00
				November 12, 2013	3.82	1071.34	-	29.57	0.01	0.00
				May 27, 2014	2.11	1073.05	-	29.63	-0.05	0.00
				November 17, 2014	3.90	1071.26	-	29.60	-0.02	0.00
				May 19, 2015	3.85	1071.31	-	29.59	-0.01	0.00
				November 16, 2015	2.58	1072.58	-	29.59	-0.01	0.00
				May 9, 2016	3.19	1071.97	-	29.59	-0.01	0.00
				November 15, 2016	4.62	1070.54	-	29.59	-0.01	0.00
				May 16, 2017	2.02	1073.14	-	29.60	-0.02	0.00
				November 6, 2017	4.00	1071.16	-	29.59	-0.01	0.00
				May 14, 2018	2.59	1072.57	-	29.59	-0.01	0.00
				November 12, 2018	2.02	1073.14	-	29.59	-0.01	0.00
				May 20, 2019	1.59	1073.57	-	29.60	-0.02	0.00
				November 4, 2019	1.48	1073.68	-	29.60	-0.02	0.00
				June 15, 2020	4.14	1071.02	-	29.71	-0.13	0.00
				November 17, 2020	4.35	1070.81	-	28.62	0.96	7.60

See notes on last page

Table 2
Gauging Data
2020 Annual Periodic Review Report
NYSEG
Oneonta, New York

Well ID	Measuring Point Elevation	Actual Depth to Bottom	Screen Length	Date	Depth to Water (feet TOC)	Groundwater Elevation	Depth to Product (feet TOC)	Depth to Bottom (feet TOC)	Accumulated Thickness of Sediments (feet)	Percent Screen Occluded By Sediments (%)
MW-9114S	1082.38	10.63	5.5	April 21, 2008	6.23	1076.15	-	11.16	-0.53	0.00
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	-	-	-	-	-	-
				November 10, 2008	8.15	1074.23	-	11.16	-0.53	0.00
				February 17, 2009	-	-	-	-	-	-
				May 11, 2009	7.38	1075.00	-	11.16	-0.53	0.00
				August 5, 2009	6.71	1075.67	-	11.16	-0.53	0.00
				November 30, 2009	7.51	1074.87	-	11.15	-0.52	0.00
				February 24, 2010	7.83	1074.55	-	11.17	-0.54	0.00
				May 17, 2010	6.77	1075.61	-	11.11	-0.48	0.00
				November 1, 2010	6.38	1076.00	-	11.16	-0.53	0.00
				May 9, 2011	5.54	1076.84	-	11.16	-0.53	0.00
				November 7, 2011	7.10	1075.28	-	11.18	-0.55	0.00
				May 29, 2012	7.08	1075.30	-	11.18	-0.55	0.00
				November 26, 2012	8.21	1074.17	-	11.17	-0.54	0.00
				May 6, 2013	7.03	1075.35	-	11.16	-0.53	0.00
				November 12, 2013	8.09	1074.29	-	11.12	-0.49	0.00
				May 27, 2014	6.30	1076.08	-	11.15	-0.52	0.00
				November 17, 2014	8.20	1074.18	-	11.15	-0.52	0.00
				May 19, 2015	7.89	1074.49	-	11.11	-0.48	0.00
				November 16, 2015	7.04	1075.34	-	11.13	-0.50	0.00
				May 9, 2016	7.60	1074.78	-	11.13	-0.50	0.00
				November 15, 2016	8.89	1073.49	-	11.12	-0.49	0.00
				May 16, 2017	6.40	1075.98	-	11.13	-0.50	0.00
				November 6, 2017	8.40	1073.98	-	11.12	-0.49	0.00
				May 14, 2018	6.85	1075.53	-	11.15	-0.52	0.00
				November 12, 2018	6.66	1075.72	-	11.14	-0.51	0.00
				May 20, 2019	6.13	1076.25	-	11.13	-0.50	0.00
				November 4, 2019	6.45	1075.93	-	11.15	-0.52	0.00
				June 15, 2020	8.28	1074.10	-	11.16	-0.53	0.00
				November 17, 2020	8.75	1073.63	-	11.15	-0.52	0.00
MW-8604S	1083.02	19.00	15.0	April 21, 2008	9.22	1073.80	-	19.48	-0.48	0.00
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	-	-	-	-	-	-
				November 10, 2008	9.40	1073.62	-	19.49	-0.49	0.00
				February 17, 2009	-	-	-	-	-	-
				May 11, 2009	9.19	1073.83	-	19.48	-0.48	0.00
				August 5, 2009	8.97	1074.05	-	19.46	-0.46	0.00
				November 30, 2009	9.20	1073.82	-	19.48	-0.48	0.00
				February 24, 2010	9.37	1073.65	-	19.47	-0.47	0.00
				May 17, 2010	8.98	1074.04	-	19.44	-0.44	0.00
				November 1, 2010	8.89	1074.13	-	19.48	-0.48	0.00
				May 9, 2011	8.90	1074.12	-	19.51	-0.51	0.00
				November 7, 2011	9.23	1073.79	-	19.50	-0.50	0.00
				May 29, 2012	9.09	1073.93	-	19.44	-0.44	0.00
				November 26, 2012	9.36	1073.66	-	19.50	-0.50	0.00
				May 6, 2013	9.01	1074.01	-	19.45	-0.45	0.00
				November 12, 2013	9.29	1073.73	-	19.48	-0.48	0.00
				May 27, 2014	8.86	1074.16	-	19.44	-0.44	0.00
				November 17, 2014	9.31	1073.71	-	19.47	-0.47	0.00
				May 19, 2015	9.06	1073.96	-	19.45	-0.45	0.00
				November 16, 2015	9.35	1073.67	-	19.43	-0.43	0.00
				May 9, 2016	9.49	1073.53	-	19.47	-0.47	0.00
				November 15, 2016	10.11	1072.91	-	19.50	-0.50	0.00
				May 16, 2017	8.80	1074.22	-	19.45	-0.45	0.00
				November 6, 2017	8.95	1074.07	-	19.50	-0.50	0.00
				May 14, 2018	9.10	1073.92	-	19.35	-0.35	0.00
				November 12, 2018	9.24	1073.78	-	19.47	-0.47	0.00
				May 20, 2019	8.82	1074.20	-	19.46	-0.46	0.00
				November 4, 2019	9.25	1073.77	-	19.45	-0.45	0.00
				June 15, 2020	9.85	1073.17	-	20.16	-1.16	0.00
				November 17, 2020	10.13	1072.89	-	20.15	-1.15	0.00

See notes on last page

Table 2
Gauging Data
2020 Annual Periodic Review Report
NYSEG
Oneonta, New York

Well ID	Measuring Point Elevation	Actual Depth to Bottom	Screen Length	Date	Depth to Water (feet TOC)	Groundwater Elevation	Depth to Product (feet TOC)	Depth to Bottom (feet TOC)	Accumulated Thickness of Sediments (feet)	Percent Screen Occluded By Sediments (%)
MW-9112S	1079.32	9.44	5.0	April 21, 2008	3.46	1075.86	-	9.59	-0.15	0.00
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	-	-	-	-	-	-
				November 10, 2008	5.87	1073.45	-	9.60	-0.16	0.00
				February 17, 2009	-	-	-	-	-	-
				May 11, 2009	5.24	1074.08	-	9.58	-0.14	0.00
				August 5, 2009	4.12	1075.20	-	9.59	-0.15	0.00
				November 30, 2009	5.19	1074.13	-	9.56	-0.12	0.00
				February 24, 2010	5.96	1073.36	-	9.59	-0.15	0.00
				May 17, 2010	4.96	1074.36	-	9.55	-0.11	0.00
				November 1, 2010	3.60	1075.72	-	9.60	-0.16	0.00
				May 9, 2011	4.85	1074.47	-	9.59	-0.15	0.00
				November 7, 2011	4.71	1074.61	-	9.61	-0.17	0.00
				May 29, 2012	4.95	1074.37	-	9.64	-0.20	0.00
				November 26, 2012	6.59	1072.73	-	9.53	-0.09	0.00
				May 6, 2013	4.91	1074.41	-	9.59	-0.15	0.00
				November 12, 2013	6.01	1073.31	-	9.55	-0.11	0.00
				May 27, 2014	3.50	1075.82	-	9.59	-0.15	0.00
				November 17, 2014	7.10	1072.22	-	9.59	-0.15	0.00
				May 19, 2015	6.14	1073.18	-	9.54	-0.10	0.00
				November 16, 2015	4.84	1074.48	-	9.55	-0.11	0.00
				May 9, 2016	5.60	1073.72	-	9.56	-0.12	0.00
				November 15, 2016	7.81	1071.51	-	9.55	-0.11	0.00
				May 16, 2017	3.80	1075.52	-	9.58	-0.14	0.00
				November 6, 2017	6.85	1072.47	-	9.55	-0.11	0.00
				May 14, 2018	5.21	1074.11	-	9.60	-0.16	0.00
				November 12, 2018	4.28	1075.04	-	9.55	-0.11	0.00
				May 20, 2019	3.35	1075.97	-	9.54	-0.10	0.00
				November 4, 2019	3.54	1075.78	-	9.56	-0.12	0.00
				June 15, 2020	6.15	1073.17	-	9.56	-0.12	0.00
				November 17, 2020	6.57	1072.75	-	9.58	-0.14	0.00
PTMW-0202*	1078.17	16.40	10.0	April 21, 2008	3.28	1074.89	-	15.88	0.52	3.20
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	-	-	-	-	-	-
				November 10, 2008	5.03	1073.14	-	15.88	0.52	3.20
				February 17, 2009	-	-	-	-	-	-
				May 11, 2009	4.24	1073.93	-	15.87	0.53	3.30
				August 5, 2009	3.75	1074.42	-	15.90	0.50	3.00
				November 30, 2009	4.34	1073.83	-	15.88	0.52	3.20
				February 24, 2010	4.71	1073.46	-	15.84	0.56	3.60
				May 17, 2010	3.88	1074.29	-	15.81	0.59	3.90
				November 1, 2010	3.43	1074.74	-	15.90	0.50	3.00
				May 9, 2011	2.73	1075.44	-	15.89	0.51	3.10
				November 7, 2011	3.90	1074.27	-	15.90	0.50	3.00
				May 29, 2012	3.92	1074.25	-	15.90	0.50	3.00
				November 26, 2012	4.78	1073.39	-	15.87	0.53	3.30
				May 6, 2013	3.75	1074.42	-	15.88	0.52	3.20
				November 12, 2013	4.71	1073.46	-	15.85	0.55	3.50
				May 27, 2014	3.29	1074.88	-	15.86	0.54	3.40
				November 17, 2014	5.05	1073.12	-	15.88	0.52	3.20
				May 19, 2015	4.55	1073.62	-	16.42	-0.02	0.00
				November 16, 2015	3.79	1074.38	-	16.44	-0.04	0.00
				May 9, 2016	4.33	1073.84	-	16.45	-0.05	0.00
				November 15, 2016	5.35	1072.82	-	16.44	-0.04	0.00
				May 16, 2017	3.20	1074.97	-	16.45	-0.05	0.00
				November 6, 2017	5.25	1072.92	-	16.39	0.01	0.00
				May 14, 2018	3.60	1074.57	-	16.45	-0.05	0.00
				November 12, 2018	3.62	1074.55	-	16.42	-0.02	0.00
				May 20, 2019	3.11	1075.06	-	16.40	0.00	0.00
				November 4, 2019	3.42	1074.75	-	16.44	-0.04	0.00
				June 15, 2020	5.04	1073.13	-	16.40	0.00	0.00
				November 17, 2020	5.68	1072.49	-	16.44	-0.04	0.00

See notes on last page

Table 2
Gauging Data
2020 Annual Periodic Review Report
NYSEG
Oneonta, New York

Well ID	Measuring Point Elevation	Actual Depth to Bottom	Screen Length	Date	Depth to Water (feet TOC)	Groundwater Elevation	Depth to Product (feet TOC)	Depth to Bottom (feet TOC)	Accumulated Thickness of Sediments (feet)	Percent Screen Occluded By Sediments (%)
MW-9111S	1076.43	15.92	10.0	April 21, 2008	2.65	1073.78	-	15.98	-0.06	0.00
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	-	-	-	-	-	-
				November 10, 2008	4.42	1072.01	-	15.95	-0.03	0.00
				February 17, 2009	-	-	-	-	-	-
				May 11, 2009	3.97	1072.46	-	15.92	0.00	0.00
				August 5, 2009	3.01	1073.42	-	15.91	0.01	0.10
				November 30, 2009	3.94	1072.49	-	15.93	-0.01	0.00
				February 24, 2010	4.39	1072.04	-	15.93	-0.01	0.00
				May 17, 2010	3.35	1073.08	-	15.89	0.03	0.30
				November 1, 2010	2.72	1073.71	-	15.80	0.12	1.20
				May 9, 2011	1.83	1074.60	-	15.92	0.00	0.00
				November 7, 2011	3.41	1073.02	-	15.82	0.10	1.00
				May 29, 2012	3.60	1072.83	-	15.92	0.00	0.00
				November 26, 2012	4.54	1071.89	-	15.87	0.05	0.50
				May 6, 2013	3.43	1073.00	-	15.90	0.02	0.20
				November 12, 2013	4.64	1071.79	-	15.85	0.07	0.70
				May 27, 2014	2.81	1073.62	-	15.74	0.18	1.80
				November 17, 2014	4.67	1071.76	-	15.88	0.04	0.40
				May 19, 2015	4.60	1071.83	-	15.75	0.17	1.70
				November 16, 2015	3.32	1073.11	-	15.82	0.10	1.00
				May 9, 2016	4.00	1072.43	-	15.80	0.12	1.20
				November 15, 2016	5.41	1071.02	-	15.78	0.14	1.40
				May 16, 2017	2.79	1073.64	-	15.68	0.24	2.40
				November 6, 2017	4.88	1071.55	-	15.70	0.22	2.20
				May 14, 2018	3.35	1073.08	-	15.72	0.20	2.00
				November 12, 2018	2.91	1073.52	-	15.74	0.18	1.80
				May 20, 2019	2.40	1074.03	-	15.68	0.24	2.40
				November 4, 2019	2.43	1074.00	-	15.75	0.17	1.70
				June 15, 2020	4.95	1071.48	-	15.66	0.26	2.60
				November 17, 2020	5.26	1071.17	-	15.71	0.21	2.10
MW-9109S	1076.45	7.86	5.0	April 21, 2008	5.63	1070.82	-	7.75	0.11	2.20
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	-	-	-	-	-	-
				November 10, 2008	6.88	1069.57	-	7.74	0.12	2.40
				February 17, 2009	-	-	-	-	-	-
				May 11, 2009	6.16	1070.29	-	7.74	0.12	2.40
				August 5, 2009	6.12	1070.33	-	7.78	0.08	1.60
				November 30, 2009	6.53	1069.92	-	7.73	0.13	2.60
				February 24, 2010	6.91	1069.54	-	7.73	0.13	2.60
				May 17, 2010	6.23	1070.22	-	7.71	0.15	3.00
				November 1, 2010	5.67	1070.78	-	7.75	0.11	2.20
				May 9, 2011	4.83	1071.62	-	7.76	0.10	2.00
				November 7, 2011	6.07	1070.38	-	7.78	0.08	1.60
				May 29, 2012	6.18	1070.27	-	7.78	0.08	1.60
				November 26, 2012	6.92	1069.53	-	7.75	0.11	2.20
				May 6, 2013	5.96	1070.49	-	7.74	0.12	2.40
				November 12, 2013	6.94	1069.51	-	7.71	0.15	3.00
				May 27, 2014	5.72	1070.73	-	7.70	0.16	3.20
				November 17, 2014	7.52	1068.93	-	7.73	0.13	2.60
				May 19, 2015	6.98	1069.47	-	7.75	0.11	2.20
				November 16, 2015	5.92	1070.53	-	7.74	0.12	2.40
				May 9, 2016	6.45	1070.00	-	7.75	0.11	2.20
				November 15, 2016	7.36	1069.09	-	7.75	0.11	2.20
				May 16, 2017	5.40	1071.05	-	7.76	0.10	2.00
				November 6, 2017	7.18	1069.27	-	7.72	0.14	2.80
				May 14, 2018	6.00	1070.45	-	7.75	0.11	2.20
				November 12, 2018	5.52	1070.93	-	7.75	0.11	2.20
				May 20, 2019	5.27	1071.18	-	7.74	0.12	2.40
				November 4, 2019	4.73	1071.72	-	7.78	0.08	1.60
				June 15, 2020	7.27	1069.18	-	7.75	0.11	2.20
				November 17, 2020	7.70	1068.75	-	7.77	0.09	1.80

See notes on last page

Table 2
Gauging Data
2020 Annual Periodic Review Report
NYSEG
Oneonta, New York

Well ID	Measuring Point Elevation	Actual Depth to Bottom	Screen Length	Date	Depth to Water (feet TOC)	Groundwater Elevation	Depth to Product (feet TOC)	Depth to Bottom (feet TOC)	Accumulated Thickness of Sediments (feet)	Percent Screen Occluded By Sediments (%)
MW-8808S	1076.00	17.65	16.3	April 21, 2008	4.65	1071.35	-	16.77	0.88	5.40
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	-	-	-	-	-	-
				November 10, 2008	6.58	1069.42	-	16.78	0.87	5.34
				February 17, 2009	-	-	-	-	-	-
				May 11, 2009	4.76	1071.24	-	16.74	0.91	5.58
				August 5, 2009	4.56	1071.44	-	16.75	0.90	5.52
				November 30, 2009	5.59	1070.41	-	16.75	0.90	5.52
				February 24, 2010	6.17	1069.83	-	16.75	0.90	5.52
				May 17, 2010	5.45	1070.55	-	17.65	0.00	0.00
				November 1, 2010	5.04	1070.96	-	17.71	-0.06	0.00
				May 9, 2011	4.31	1071.69	-	17.70	-0.05	0.00
				November 7, 2011	5.13	1070.87	-	17.72	-0.07	0.00
				May 29, 2012	4.71	1071.29	-	17.74	-0.09	0.00
				November 26, 2012	6.31	1069.69	-	17.72	-0.07	0.00
				May 6, 2013	4.30	1071.70	-	17.70	-0.05	0.00
				November 12, 2013	6.34	1069.66	-	17.67	-0.02	0.00
				May 27, 2014	4.72	1071.28	-	17.71	-0.06	0.00
				November 17, 2014	7.05	1068.95	-	17.72	-0.07	0.00
				May 19, 2015	6.10	1069.90	-	17.67	-0.02	0.00
				November 16, 2015	5.08	1070.92	-	17.68	-0.03	0.00
				May 9, 2016	5.74	1070.26	-	17.70	-0.05	0.00
				November 15, 2016	6.21	1069.79	-	17.67	-0.02	0.00
				May 16, 2017	4.29	1071.71	-	17.70	-0.05	0.00
				November 6, 2017	6.78	1069.22	-	17.67	-0.02	0.00
				May 14, 2018	4.83	1071.17	-	17.70	-0.05	0.00
				November 12, 2018	5.18	1070.82	-	17.68	-0.03	0.00
				May 20, 2019	4.64	1071.36	-	17.69	-0.04	0.00
				November 4, 2019	4.45	1071.55	-	17.70	-0.05	0.00
				June 15, 2020	6.33	1069.67	-	17.68	-0.03	0.00
				November 17, 2020	7.57	1068.43	-	17.70	-0.05	0.00
MW-0201*	1077.20	18.92	5.0	April 21, 2008	5.17	1072.03	-	19.71	-0.79	0.00
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	-	-	-	-	-	-
				November 10, 2008	7.11	1070.09	-	19.62	-0.70	0.00
				February 17, 2009	-	-	-	-	-	-
				May 11, 2009	5.74	1071.46	-	19.62	-0.70	0.00
				August 5, 2009	5.84	1071.36	-	19.69	-0.77	0.00
				November 30, 2009	6.08	1071.12	-	19.63	-0.71	0.00
				February 24, 2010	6.41	1070.79	-	19.67	-0.75	0.00
				May 17, 2010	5.97	1071.23	-	19.63	-0.71	0.00
				November 1, 2010	5.29	1071.91	-	19.70	-0.78	0.00
				May 9, 2011	4.86	1072.34	-	19.68	-0.76	0.00
				November 7, 2011	5.51	1071.69	-	19.64	-0.72	0.00
				May 29, 2012	5.48	1071.72	-	19.72	-0.80	0.00
				November 26, 2012	6.61	1070.59	-	19.63	-0.71	0.00
				May 6, 2013	5.16	1072.04	-	19.62	-0.70	0.00
				November 12, 2013	6.88	1070.32	-	19.63	-0.71	0.00
				May 27, 2014	5.45	1071.75	-	19.69	-0.77	0.00
				November 17, 2014	7.33	1069.87	-	19.67	-0.75	0.00
				May 19, 2015	6.57	1070.63	-	19.64	-0.72	0.00
				November 16, 2015	5.66	1071.54	-	19.67	-0.75	0.00
				May 9, 2016	6.22	1070.98	-	19.65	-0.73	0.00
				November 15, 2016	6.76	1070.44	-	19.65	-0.73	0.00
				May 16, 2017	5.00	1072.20	-	19.66	-0.74	0.00
				November 6, 2017	7.13	1070.07	-	19.63	-0.71	0.00
				May 14, 2018	5.45	1071.75	-	19.65	-0.73	0.00
				November 12, 2018	5.84	1071.36	-	19.66	-0.74	0.00
				May 20, 2019	5.25	1071.95	-	19.65	-0.73	0.00
				November 4, 2019	5.26	1071.94	-	19.66	-0.74	0.00
				June 15, 2020	6.97	1070.23	-	19.66	-0.74	0.00
				November 17, 2020	7.82	1069.38	-	19.68	-0.76	0.00

See notes on last page

Table 2
Gauging Data
2020 Annual Periodic Review Report
NYSEG
Oneonta, New York

Well ID	Measuring Point Elevation	Actual Depth to Bottom	Screen Length	Date	Depth to Water (feet TOC)	Groundwater Elevation	Depth to Product (feet TOC)	Depth to Bottom (feet TOC)	Accumulated Thickness of Sediments (feet)	Percent Screen Occluded By Sediments (%)
MW-9110S	1077.66	22.00	10.0	April 21, 2008	4.84	1072.82	-	20.91	1.09	10.90
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	-	-	-	-	-	-
				November 10, 2008	5.11	1072.55	-	20.64	1.36	13.60
				February 17, 2009	-	-	-	-	-	-
				May 11, 2009	5.11	1072.55	-	20.64	1.36	13.60
				August 5, 2009	4.92	1072.74	-	20.69	1.31	13.10
				November 30, 2009	5.21	1072.45	-	20.65	1.35	13.50
				February 24, 2010	5.55	1072.11	-	20.53	1.47	14.70
				May 17, 2010	4.99	1072.67	-	22.00	0.00	0.00
				November 1, 2010	4.74	1072.92	-	22.06	-0.06	0.00
				May 9, 2011	4.33	1073.33	-	22.05	-0.05	0.00
				November 7, 2011	3.95	1073.71	-	22.08	-0.08	0.00
				May 29, 2012	4.94	1072.72	-	22.08	-0.08	0.00
				November 26, 2012	5.71	1071.95	-	22.01	-0.01	0.00
				May 6, 2013	4.87	1072.79	-	22.05	-0.05	0.00
				November 12, 2013	5.63	1072.03	-	22.01	-0.01	0.00
				May 27, 2014	4.70	1072.96	-	22.01	-0.01	0.00
				November 17, 2014	5.74	1071.92	-	22.04	-0.04	0.00
				May 19, 2015	5.42	1072.24	-	22.01	-0.01	0.00
				November 16, 2015	4.84	1072.82	-	22.02	-0.02	0.00
				May 9, 2016	5.21	1072.45	-	22.03	-0.03	0.00
				November 15, 2016	5.94	1071.72	-	22.02	-0.02	0.00
				May 16, 2017	4.42	1073.24	-	22.01	-0.01	0.00
				November 6, 2017	5.62	1072.04	-	21.95	0.05	0.50
				May 14, 2018	4.89	1072.77	-	22.01	-0.01	0.00
				November 12, 2018	4.68	1072.98	-	22.00	0.00	0.00
				May 20, 2019	4.35	1073.31	-	22.01	-0.01	0.00
				November 4, 2019	4.59	1073.07	-	22.02	-0.02	0.00
				June 15, 2020	5.74	1071.92	-	21.74	0.26	2.60
				November 17, 2020	6.21	1071.45	-	22.00	0.00	0.00
MW-8807S	1077.89	17.94	16.3	April 21, 2008	4.50	1073.39	-	15.54	2.40	14.72
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	-	-	-	-	-	-
				November 10, 2008	5.21	1072.68	-	15.37	2.57	15.77
				February 17, 2009	-	-	-	-	-	-
				May 11, 2009	4.75	1073.14	-	15.39	2.55	15.64
				August 5, 2009	4.40	1073.49	-	15.46	2.48	15.21
				November 30, 2009	4.76	1073.13	-	15.43	2.51	15.40
				February 24, 2010	5.10	1072.79	-	15.38	2.56	15.71
				May 17, 2010	4.53	1073.36	-	17.94	0.00	0.00
				November 1, 2010	4.38	1073.51	-	17.98	-0.04	0.00
				May 9, 2011	4.15	1073.74	-	17.97	-0.03	0.00
				November 7, 2011	4.61	1073.28	-	17.98	-0.04	0.00
				May 29, 2012	4.65	1073.24	-	17.99	-0.05	0.00
				November 26, 2012	5.19	1072.70	-	17.98	-0.04	0.00
				May 6, 2013	4.56	1073.33	-	17.98	-0.04	0.00
				November 12, 2013	5.91	1071.98	-	17.94	0.00	0.00
				May 27, 2014	4.39	1073.50	-	17.97	-0.03	0.00
				November 17, 2014	5.32	1072.57	-	17.95	-0.01	0.00
				May 19, 2015	4.90	1072.99	-	17.95	-0.01	0.00
				November 16, 2015	4.45	1073.44	-	17.98	-0.04	0.00
				May 9, 2016	4.86	1073.03	-	17.97	-0.03	0.00
				November 15, 2016	5.53	1072.36	-	17.96	-0.02	0.00
				May 16, 2017	4.05	1073.84	-	17.98	-0.04	0.00
				November 6, 2017	5.19	1072.70	-	17.96	-0.02	0.00
				May 14, 2018	4.41	1073.48	-	17.98	-0.04	0.00
				November 12, 2018	4.33	1073.56	-	17.95	-0.01	0.00
				May 20, 2019	4.19	1073.70	-	17.96	-0.02	0.00
				November 4, 2019	4.29	1073.60	-	17.97	-0.03	0.00
				June 15, 2020	5.33	1072.56	-	17.95	-0.01	0.00
				November 17, 2020	5.88	1072.01	-	17.98	-0.04	0.00

See notes on last page

Table 2
Gauging Data
2020 Annual Periodic Review Report
NYSEG
Oneonta, New York

Well ID	Measuring Point Elevation	Actual Depth to Bottom	Screen Length	Date	Depth to Water (feet TOC)	Groundwater Elevation	Depth to Product (feet TOC)	Depth to Bottom (feet TOC)	Accumulated Thickness of Sediments (feet)	Percent Screen Occluded By Sediments (%)
MW-0301*	1075.36	18.72	10.0	April 21, 2008	4.38	1070.98	-	18.57	0.15	0.00
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	-	-	-	-	-	-
				November 10, 2008	6.35	1069.01	-	18.58	0.14	0.00
				February 17, 2009	-	-	-	-	-	-
				May 11, 2009	4.58	1070.78	-	18.56	0.16	0.00
				August 5, 2009	5.16	1070.20	-	18.52	0.20	0.00
				November 30, 2009	5.34	1070.02	-	18.54	0.18	0.00
				February 24, 2010	5.91	1069.45	-	18.54	0.18	0.00
				May 17, 2010	5.16	1070.20	-	18.72	0.00	0.00
				November 1, 2010	4.69	1070.67	-	18.75	-0.03	0.00
				May 9, 2011	3.94	1071.42	-	18.74	-0.02	0.00
				November 7, 2011	4.80	1070.56	-	18.78	-0.06	0.00
				May 29, 2012	4.45	1070.91	-	18.78	-0.06	0.00
				November 26, 2012	6.01	1069.35	-	18.74	-0.02	0.00
				May 6, 2013	4.06	1071.30	-	18.50	0.22	0.20
				November 12, 2013	6.07	1069.29	-	18.72	0.00	0.00
				May 27, 2014	4.42	1070.94	-	18.75	-0.03	0.00
				November 17, 2014	6.68	1068.68	-	18.79	-0.07	0.00
				May 19, 2015	5.88	1069.48	-	18.74	-0.02	0.00
				November 16, 2015	4.72	1070.64	-	18.73	-0.01	0.00
				May 9, 2016	5.39	1069.97	-	18.73	-0.01	0.00
				November 15, 2016	5.99	1069.37	-	18.74	-0.02	0.00
				May 16, 2017	4.01	1071.35	-	18.75	-0.03	0.00
				November 6, 2017	6.35	1069.01	-	18.72	0.00	0.00
				May 14, 2018	4.69	1070.67	-	18.75	-0.03	0.00
				November 12, 2018	4.80	1070.56	-	18.76	-0.04	0.00
				May 20, 2019	4.29	1071.07	-	18.74	-0.02	0.00
				November 4, 2019	4.11	1071.25	-	18.72	0.00	0.00
				June 15, 2020	6.16	1069.20	-	18.73	-0.01	0.00
				November 17, 2020	7.05	1068.31	-	18.75	-0.03	0.00
MW-8806S	1079.10	19.30	16.3	April 21, 2008	4.73	1074.37	-	18.66	0.64	3.93
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	-	-	-	-	-	-
				November 10, 2008	5.72	1073.38	-	18.67	0.63	3.87
				February 17, 2009	-	-	-	-	-	-
				May 11, 2009	5.30	1073.80	-	18.60	0.70	4.29
				August 5, 2009	4.80	1074.30	-	18.67	0.63	3.87
				November 30, 2009	5.23	1073.87	-	18.56	0.74	4.54
				February 24, 2010	5.62	1073.48	-	18.65	0.65	3.99
				May 17, 2010	4.97	1074.13	-	19.30	0.00	0.00
				November 1, 2010	4.65	1074.45	-	19.37	-0.07	0.00
				May 9, 2011	4.33	1074.77	-	19.35	-0.05	0.00
				November 7, 2011	5.09	1074.01	-	19.38	-0.08	0.00
				May 29, 2012	5.02	1074.08	-	19.37	-0.07	0.00
				November 26, 2012	5.64	1073.46	-	19.34	-0.04	0.00
				May 6, 2013	4.91	1074.19	-	19.35	-0.05	0.00
				November 12, 2013	5.62	1073.48	-	19.30	0.00	0.00
				May 27, 2014	4.64	1074.46	-	19.34	-0.04	0.00
				November 17, 2014	5.52	1073.58	-	19.32	-0.02	0.00
				May 19, 2015	5.16	1073.94	-	19.29	0.01	0.06
				November 16, 2015	4.88	1074.22	-	19.30	0.00	0.00
				May 9, 2016	5.32	1073.78	-	19.30	0.00	0.00
				November 15, 2016	6.21	1072.89	-	19.31	-0.01	0.00
				May 16, 2017	4.16	1074.94	-	19.30	0.00	0.00
				November 6, 2017	5.75	1073.35	-	19.30	0.00	0.00
				May 14, 2018	4.78	1074.32	-	19.30	0.00	0.00
				November 12, 2018	4.74	1074.36	-	19.29	0.01	0.06
				May 20, 2019	4.34	1074.76	-	19.29	0.01	0.06
				November 6, 2019	4.85	1074.25	-	19.30	0.00	0.00
				June 15, 2020	5.83	1073.27	-	18.31	0.99	6.07
				November 17, 2020	6.29	1072.81	-	19.32	-0.02	0.00

See notes on last page

Table 2
Gauging Data
2020 Annual Periodic Review Report
NYSEG
Oneonta, New York

Well ID	Measuring Point Elevation	Actual Depth to Bottom	Screen Length	Date	Depth to Water (feet TOC)	Groundwater Elevation	Depth to Product (feet TOC)	Depth to Bottom (feet TOC)	Accumulated Thickness of Sediments (feet)	Percent Screen Occluded By Sediments (%)
AW-01	1079.68	15.04	11.7	April 21, 2008	5.20	1074.73	-	15.26	0.03	0.26
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	-	-	-	-	-	-
				November 10, 2008	-	-	-	15.29	0.00	0.00
				February 17, 2009	-	-	-	-	-	-
				May 11, 2009	-	-	-	15.23	0.06	0.51
				August 5, 2009	4.88	1075.05	-	15.12	0.17	1.45
				November 30, 2009	-	-	-	15.23	0.06	0.51
				February 24, 2010	-	-	-	-	-	-
				May 17, 2010	-	-	-	14.70	0.59	5.04
				November 1, 2010	4.68	1075.25	-	14.40	0.89	7.61
				May 9, 2011	4.77	1074.91	-	14.35	0.69	5.90
				November 7, 2011	4.83	1074.85	-	14.53	0.51	4.36
				May 29, 2012	4.85	1074.83	-	14.52	0.52	4.44
				November 26, 2012	5.16	1074.52	-	14.40	0.64	5.47
				May 6, 2013	4.89	1074.79	-	15.14	-0.10	0.00
				November 12, 2013	4.82	1074.86	-	15.12	-0.08	0.00
				May 27, 2014	4.78	1074.90	-	14.99	0.05	0.43
				May 19, 2015	-	-	-	15.00	0.04	0.34
				May 9, 2016	4.86	1074.82	-	15.50	-0.46	0.00
				May 16, 2017	4.60	1075.08	-	14.98	0.06	0.51
				May 14, 2018	4.80	1074.88	-	15.05	-0.01	0.00
				May 20, 2019	4.51	1075.17	-	14.91	0.13	1.11
				June 15, 2020	-	-	-	14.98	0.06	0.51
AW-02	1079.57	14.69	6.0	April 21, 2008	4.85	1074.72	-	13.79	0.90	15.00
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	-	-	-	-	-	-
				November 10, 2008	-	-	-	13.70	0.99	16.50
				February 17, 2009	-	-	-	-	-	-
				May 11, 2009	-	-	-	13.48	1.21	20.17
				August 5, 2009	4.54	1075.03	-	13.41	1.28	21.33
				November 30, 2009	-	-	-	13.29	1.40	23.33
				February 24, 2010	-	-	-	-	-	-
				May 17, 2010	-	-	-	14.53	0.16	2.67
				November 1, 2010	4.47	1075.10	-	14.34	0.35	5.83
				May 9, 2011	4.55	1075.02	-	14.33	0.36	6.00
				November 7, 2011	4.60	1074.97	-	14.45	0.24	4.00
				May 29, 2012	4.61	1074.96	-	14.31	0.38	6.33
				November 26, 2012	4.95	1074.62	-	14.34	0.35	5.83
				May 6, 2013	4.65	1074.92	-	14.29	0.40	6.67
				November 12, 2013	4.61	1074.96	-	14.37	0.32	5.33
				May 27, 2014	4.52	1075.05	-	14.28	0.41	6.83
				May 19, 2015	-	-	-	14.27	0.42	7.00
				May 9, 2016	4.68	1074.89	-	14.33	0.36	6.00
				May 16, 2017	4.39	1075.18	-	14.20	0.49	8.17
				May 14, 2018	4.60	1074.97	-	14.19	0.50	8.33
				May 20, 2019	4.33	1075.24	-	13.99	0.70	11.67
				June 15, 2020	-	-	-	14.14	0.55	9.17

See notes on last page

Table 2
Gauging Data
2020 Annual Periodic Review Report
NYSEG
Oneonta, New York

Well ID	Measuring Point Elevation	Actual Depth to Bottom	Screen Length	Date	Depth to Water (feet TOC)	Groundwater Elevation	Depth to Product (feet TOC)	Depth to Bottom (feet TOC)	Accumulated Thickness of Sediments (feet)	Percent Screen Occluded By Sediments (%)
AW-03	1079.69	17.13	8.0	April 21, 2008	4.96	1074.73	-	14.83	2.30	28.75
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	-	-	-	-	-	-
				November 10, 2008	-	-	-	14.65	2.48	31.00
				February 17, 2009	-	-	-	-	-	-
				May 11, 2009	-	-	-	14.27	2.86	35.75
				August 5, 2009	4.93	1074.76	-	14.35	2.78	34.75
				November 30, 2009	-	-	-	14.25	2.88	36.00
				February 24, 2010	-	-	-	-	-	-
				May 17, 2010	-	-	-	17.13	0.00	0.00
				November 1, 2010	4.56	1075.13	-	17.21	-0.08	0.00
				May 9, 2011	4.68	1075.01	-	17.10	0.03	0.37
				November 7, 2011	4.69	1075.00	-	17.15	-0.02	0.00
				May 29, 2012	4.73	1074.96	-	17.01	0.12	1.50
				November 26, 2012	5.05	1074.64	-	17.15	-0.02	0.00
				May 6, 2013	4.77	1074.92	-	17.10	0.03	0.37
				November 12, 2013	4.71	1074.98	-	17.12	0.01	0.12
				May 27, 2014	4.66	1075.03	-	16.97	0.16	2.00
				May 19, 2015	-	-	-	17.05	0.08	1.00
				May 9, 2016	4.79	1074.90	-	17.10	0.03	0.37
				May 16, 2017	4.45	1075.24	-	16.88	0.25	3.13
				May 14, 2018	4.67	1075.02	-	16.90	0.23	2.88
				May 20, 2019	4.41	1075.28	-	16.89	0.24	3.00
				June 15, 2020	-	-	-	16.72	0.41	5.13
AW-04	1081.31	18.97	10.0	April 21, 2008	7.01	1074.73	-	17.95	1.45	14.50
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	-	-	-	-	-	-
				November 10, 2008	-	-	-	17.75	1.65	16.50
				February 17, 2009	-	-	-	-	-	-
				May 11, 2009	-	-	-	17.52	1.88	18.80
				August 5, 2009	6.71	1075.03	-	17.59	1.81	18.10
				November 30, 2009	-	-	-	17.32	2.08	20.80
				February 24, 2010	-	-	-	-	-	-
				May 17, 2010	-	-	-	19.40	0.00	0.00
				November 1, 2010	6.45	1075.29	-	19.28	0.12	1.20
				May 9, 2011	6.54	1074.77	-	19.27	-0.30	0.00
				November 7, 2011	6.58	1074.73	-	19.26	-0.29	0.00
				May 29, 2012	6.60	1074.71	-	19.30	-0.33	0.00
				November 26, 2012	6.93	1074.38	-	19.23	-0.26	0.00
				May 6, 2013	6.65	1074.66	-	19.24	-0.27	0.00
				November 12, 2013	6.95	1074.36	-	19.14	-0.17	0.00
				May 27, 2014	6.51	1074.80	-	19.22	-0.25	0.00
				May 19, 2015	-	-	-	19.19	-0.22	0.00
				May 9, 2016	6.64	1074.67	-	19.24	-0.27	0.00
				May 16, 2017	6.32	1074.99	-	19.20	-0.23	0.00
				May 14, 2018	6.42	1074.89	-	19.24	-0.27	0.00
				May 20, 2019	6.24	1075.07	-	19.16	-0.19	0.00
				June 15, 2020	-	-	-	19.29	-0.32	0.00

See notes on last page

Table 2
Gauging Data
2020 Annual Periodic Review Report
NYSEG
Oneonta, New York

Well ID	Measuring Point Elevation	Actual Depth to Bottom	Screen Length	Date	Depth to Water (feet TOC)	Groundwater Elevation	Depth to Product (feet TOC)	Depth to Bottom (feet TOC)	Accumulated Thickness of Sediments (feet)	Percent Screen Occluded By Sediments (%)
AW-05	1081.00	16.25	8.5	April 21, 2008	6.27	1074.73	-	15.54	0.71	8.35
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	-	-	-	-	-	-
				November 10, 2008	-	-	-	15.65	0.60	7.06
				February 17, 2009	-	-	-	-	-	-
				May 11, 2009	-	-	-	15.21	1.04	12.24
				August 5, 2009	5.98	1075.02	-	15.38	0.87	10.24
				November 30, 2009	-	-	-	15.15	1.10	12.94
				February 24, 2010	-	-	-	-	-	-
				May 17, 2010	-	-	-	16.25	0.00	0.00
				November 1, 2010	5.88	1075.12	-	16.36	-0.11	0.00
				May 9, 2011	5.99	1075.01	-	16.23	0.02	0.24
				November 7, 2011	6.01	1074.99	-	16.25	0.00	0.00
				May 29, 2012	6.05	1074.95	-	16.30	-0.05	0.00
				November 26, 2012	6.35	1074.65	-	16.24	0.01	0.12
				May 6, 2013	6.08	1074.92	-	16.29	-0.04	0.00
				November 12, 2013	6.82	1074.18	-	16.20	0.05	0.59
				May 27, 2014	5.96	1075.04	-	16.22	0.03	0.35
				May 19, 2015	-	-	-	16.19	0.06	0.71
				May 9, 2016	6.09	1074.91	-	16.20	0.05	0.59
				May 16, 2017	5.76	1075.24	-	16.22	0.03	0.35
				May 14, 2018	6.00	1075.00	-	16.23	0.02	0.24
				May 20, 2019	5.72	1075.28	-	16.16	0.09	1.06
				June 15, 2020	-	-	-	16.25	0.00	0.00
AW-06	1080.72	14.80	9.0	April 21, 2008	6.00	1074.72	-	14.45	0.35	3.89
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	-	-	-	-	-	-
				November 10, 2008	-	-	-	14.83	-0.03	0.00
				February 17, 2009	-	-	-	-	-	-
				May 11, 2009	-	-	-	14.11	0.69	7.67
				August 5, 2009	5.71	1075.01	-	13.90	0.90	10.00
				November 30, 2009	-	-	-	14.00	0.80	8.89
				February 24, 2010	-	-	-	-	-	-
				May 17, 2010	-	-	-	13.76	1.04	11.56
				November 1, 2010	5.61	1075.11	-	13.60	1.20	13.33
				May 9, 2011	5.71	1075.01	-	13.65	1.15	12.78
				November 7, 2011	5.74	1074.98	-	13.76	1.04	11.56
				May 29, 2012	5.78	1074.94	-	13.72	1.08	12.00
				November 26, 2012	6.08	1074.64	-	13.74	1.06	11.78
				May 6, 2013	5.81	1074.91	-	14.85	-0.05	0.00
				November 12, 2013	5.73	1074.99	-	14.28	0.52	5.78
				May 27, 2014	5.68	1075.04	-	14.51	0.29	3.22
				May 19, 2015	-	-	-	14.76	0.04	0.44
				May 9, 2016	5.82	1074.90	-	14.69	0.11	1.22
				May 16, 2017	5.51	1075.21	-	14.51	0.29	3.22
				May 14, 2018	5.67	1075.05	-	14.51	0.29	3.22
				May 20, 2019	5.44	1075.28	-	14.45	0.35	3.89
				June 15, 2020	-	-	-	14.50	0.30	3.33

See notes on last page

Table 2
Gauging Data
2020 Annual Periodic Review Report
NYSEG
Oneonta, New York

Well ID	Measuring Point Elevation	Actual Depth to Bottom	Screen Length	Date	Depth to Water (feet TOC)	Groundwater Elevation	Depth to Product (feet TOC)	Depth to Bottom (feet TOC)	Accumulated Thickness of Sediments (feet)	Percent Screen Occluded By Sediments (%)
AW-07	1080.38	14.56	9.0	April 21, 2008	5.65	1074.73	-	14.40	0.16	1.78
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	-	-	-	-	-	-
				November 10, 2008	-	-	-	14.47	0.09	1.00
				February 17, 2009	-	-	-	-	-	-
				May 11, 2009	-	-	-	14.42	0.14	1.56
				August 5, 2009	5.38	1075.00	-	14.41	0.15	1.67
				November 30, 2009	-	-	-	14.32	0.24	2.67
				February 24, 2010	-	-	-	-	-	-
				May 17, 2010	-	-	-	14.25	0.31	3.44
				November 1, 2010	5.27	1075.11	-	14.35	0.21	2.33
				May 9, 2011	5.36	1075.02	-	14.35	0.21	2.33
				November 7, 2011	5.40	1074.98	-	14.40	0.16	1.78
				May 29, 2012	5.44	1074.94	-	14.38	0.18	2.00
				November 26, 2012	5.74	1074.64	-	14.36	0.20	2.22
				May 6, 2013	5.46	1074.92	-	14.35	0.21	2.33
				November 12, 2013	5.43	1074.95	-	14.33	0.23	2.56
				May 27, 2014	5.34	1075.04	-	14.19	0.37	4.11
				May 19, 2015	-	-	-	14.32	0.24	2.67
				May 9, 2016	5.47	1074.91	-	14.28	0.28	3.11
				May 16, 2017	5.11	1075.27	-	14.22	0.34	3.78
				May 14, 2018	5.35	1075.03	-	14.25	0.31	3.44
				May 20, 2019	5.10	1075.28	-	14.13	0.43	4.78
				June 15, 2020	-	-	-	14.16	0.40	4.44
AW-08	1079.93	13.95	8.0	April 21, 2008	5.59	1074.67	-	14.21	0.07	0.87
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	-	-	-	-	-	-
				November 10, 2008	-	-	-	14.32	-0.04	0.00
				February 17, 2009	-	-	-	-	-	-
				May 11, 2009	-	-	-	14.22	0.06	0.75
				August 5, 2009	5.25	1075.01	-	14.12	0.16	2.00
				November 30, 2009	-	-	-	14.18	0.10	1.25
				February 24, 2010	-	-	-	-	-	-
				May 17, 2010	-	-	-	13.87	0.41	5.13
				November 1, 2010	5.02	1075.24	-	13.97	0.31	3.87
				May 9, 2011	5.11	1074.82	-	13.74	0.21	2.62
				November 7, 2011	5.16	1074.77	-	13.32	0.63	7.87
				May 29, 2012	5.19	1074.74	-	13.29	0.66	8.25
				November 26, 2012	5.49	1074.44	-	13.27	0.68	8.50
				May 6, 2013	5.23	1074.70	-	14.15	-0.20	0.00
				November 12, 2013	5.18	1074.75	-	13.75	0.20	2.50
				May 27, 2014	5.10	1074.83	-	13.21	0.74	9.25
				May 19, 2015	-	-	-	13.27	0.68	8.50
				May 9, 2016	5.22	1074.71	-	13.29	0.66	8.25
				May 16, 2017	4.90	1075.03	-	13.28	0.67	8.38
				May 14, 2018	5.10	1074.83	-	13.28	0.67	8.38
				May 20, 2019	4.87	1075.06	-	13.26	0.69	8.62
				June 15, 2020	-	-	-	13.19	0.76	9.50

See notes on last page

Table 2
Gauging Data
2020 Annual Periodic Review Report
NYSEG
Oneonta, New York

Well ID	Measuring Point Elevation	Actual Depth to Bottom	Screen Length	Date	Depth to Water (feet TOC)	Groundwater Elevation	Depth to Product (feet TOC)	Depth to Bottom (feet TOC)	Accumulated Thickness of Sediments (feet)	Percent Screen Occluded By Sediments (%)
AW-09	1080.15	15.13	7.5	April 21, 2008	5.42	1074.73	-	15.11	0.02	0.27
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	-	-	-	-	-	-
				November 10, 2008	-	-	-	15.19	-0.06	0.00
				February 17, 2009	-	-	-	-	-	-
				May 11, 2009	-	-	-	14.95	0.18	2.40
				August 5, 2009	5.13	1075.02	-	14.90	0.23	3.07
				November 30, 2009	-	-	-	14.80	0.33	4.40
				February 24, 2010	-	-	-	-	-	-
				May 17, 2010	-	-	-	13.72	1.41	18.80
				November 1, 2010	5.03	1075.12	-	13.75	1.38	18.40
				May 9, 2011	5.12	1075.03	-	14.85	0.28	3.73
				November 7, 2011	5.17	1074.98	-	14.79	0.34	4.53
				May 29, 2012	5.18	1074.97	-	14.82	0.31	4.13
				November 26, 2012	5.51	1074.64	-	14.83	0.30	4.00
				May 6, 2013	5.25	1074.90	-	14.90	0.23	3.07
				November 12, 2013	5.16	1074.99	-	14.75	0.38	5.07
				May 27, 2014	5.12	1075.03	-	14.29	0.84	11.20
				May 19, 2015	-	-	-	14.65	0.48	6.40
				May 9, 2016	5.23	1074.92	-	14.60	0.53	7.07
				May 16, 2017	4.87	1075.28	-	14.43	0.70	9.33
				May 14, 2018	5.13	1075.02	-	14.44	0.69	9.20
				May 20, 2019	4.86	1075.29	-	14.45	0.68	9.07
				June 15, 2020	-	-	-	14.31	0.82	10.93
AW-10	1079.78	15.90	7.0	April 21, 2008	5.04	1074.74	-	15.90	0.00	0.00
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	-	-	-	-	-	-
				November 10, 2008	-	-	-	15.92	-0.02	0.00
				February 17, 2009	-	-	-	-	-	-
				May 11, 2009	-	-	-	15.33	0.57	8.14
				August 5, 2009	4.77	1075.01	-	15.50	0.40	5.71
				November 30, 2009	-	-	-	15.30	0.60	8.57
				February 24, 2010	-	-	-	-	-	-
				May 17, 2010	-	-	-	15.24	0.66	9.43
				November 1, 2010	4.66	1075.12	-	15.14	0.76	10.86
				May 9, 2011	4.73	1075.05	-	14.80	1.10	15.71
				November 7, 2011	4.77	1075.01	-	15.37	0.53	7.57
				May 29, 2012	4.80	1074.98	-	15.25	0.65	9.29
				November 26, 2012	5.13	1074.65	-	15.20	0.70	10.00
				May 6, 2013	4.85	1074.93	-	15.92	-0.02	0.00
				November 12, 2013	4.81	1074.97	-	15.55	0.35	5.00
				May 27, 2014	4.73	1075.05	-	14.72	1.18	16.86
				May 19, 2015	-	-	-	15.10	0.80	11.43
				May 9, 2016	4.87	1074.91	-	14.85	1.05	15.00
				May 16, 2017	4.52	1075.26	-	14.78	1.12	16.00
				May 14, 2018	4.81	1074.97	-	14.80	1.10	15.71
				May 20, 2019	4.52	1075.26	-	14.71	1.19	17.00
				June 15, 2020	-	-	-	14.68	1.22	17.43

See notes on last page

Table 2
Gauging Data
2020 Annual Periodic Review Report
NYSEG
Oneonta, New York

Well ID	Measuring Point Elevation	Actual Depth to Bottom	Screen Length	Date	Depth to Water (feet TOC)	Groundwater Elevation	Depth to Product (feet TOC)	Depth to Bottom (feet TOC)	Accumulated Thickness of Sediments (feet)	Percent Screen Occluded By Sediments (%)
AW-11	1080.20	16.30	7.0	April 21, 2008	6.01	1074.73	-	16.19	0.11	1.57
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	-	-	-	-	-	-
				November 10, 2008	-	-	-	16.26	0.04	0.57
				February 17, 2009	-	-	-	-	-	-
				May 11, 2009	-	-	-	16.12	0.18	2.57
				August 5, 2009	5.72	1075.02	-	16.02	0.28	4.00
				November 30, 2009	-	-	-	15.80	0.50	7.14
				February 24, 2010	-	-	-	-	-	-
				May 17, 2010	-	-	-	15.60	0.70	10.00
				November 1, 2010	5.29	1075.45	-	15.27	1.03	14.71
				May 9, 2011	5.42	1074.78	-	15.76	0.54	7.71
				November 7, 2011	4.45	1075.75	-	14.93	1.37	19.57
				May 29, 2012	5.47	1074.73	-	15.13	1.17	16.71
				November 26, 2012	5.80	1074.40	-	15.04	1.26	18.00
				May 6, 2013	5.52	1074.68	-	15.92	0.38	5.43
				November 12, 2013	5.45	1074.75	-	15.67	0.63	9.00
				May 27, 2014	5.40	1074.80	-	15.54	0.76	10.86
				May 19, 2015	-	-	-	15.52	0.78	11.14
				May 9, 2016	5.52	1074.68	-	15.57	0.73	10.43
				May 16, 2017	5.15	1075.05	-	15.56	0.74	10.57
				May 14, 2018	5.46	1074.74	-	15.56	0.74	10.57
				May 20, 2019	5.12	1075.08	-	15.50	0.80	11.43
				June 15, 2020	-	-	-	15.53	0.77	11.00
AW-12*	1079.47	19.43	10.0	April 21, 2008	4.73	1074.74	-	19.39	0.04	0.00
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	-	-	-	-	-	-
				November 10, 2008	-	-	-	19.76	-0.33	0.00
				February 17, 2009	-	-	-	-	-	-
				May 11, 2009	-	-	18.72	19.22	0.21	0.00
				August 5, 2009	4.42	1075.05	18.80	19.30	0.13	0.00
				November 30, 2009	4.42	1075.05	18.06	19.40	0.03	0.00
				February 24, 2010	4.72	1074.75	18.88	19.38	0.05	0.00
				May 17, 2010	4.44	1075.03	19.17	19.37	0.06	0.00
				November 1, 2010	4.32	1075.15	19.06	19.76	-0.33	0.00
				May 9, 2011	4.43	1075.04	19.26	19.76	-0.33	0.00
				November 7, 2011	4.47	1075.00	19.26	19.76	-0.33	0.00
				May 29, 2012	4.51	1074.96	-	19.73	-0.30	0.00
				November 26, 2012	4.83	1074.64	-	19.73	-0.30	0.00
				May 6, 2013	4.55	1074.92	-	19.73	-0.30	0.00
				November 12, 2013	4.48	1074.99	-	19.73	-0.30	0.00
				May 27, 2014	4.42	1075.05	-	18.65	0.78	0.00
				November 17, 2014	-	-	-	19.32	0.11	0.00
				May 19, 2015	-	-	-	19.23	0.20	0.00
				November 18, 2015	-	-	-	-	-	-
				May 9, 2016	4.58	1074.89	-	18.50	0.93	0.00
				November 15, 2016	4.38	1075.09	-	18.55	0.88	0.00
				May 16, 2017	4.41	1075.06	-	19.25	0.18	0.00
				November 6, 2017	4.57	1074.90	-	19.05	0.38	0.00
				May 14, 2018	4.40	1075.07	-	19.40	0.03	0.00
				November 14, 2018	4.29	1075.18	-	19.29	0.14	0.00
				May 22, 2019	4.36	1075.11	-	19.33	0.10	0.00
				November 4, 2019	4.44	1075.03	-	19.28	0.15	0.00
				June 15, 2020	-	-	-	19.25	0.18	0.00
				November 17, 2020	-	-	-	19.30	0.13	0.00

See notes on last page

Table 2
Gauging Data
2020 Annual Periodic Review Report
NYSEG
Oneonta, New York

Well ID	Measuring Point Elevation	Actual Depth to Bottom	Screen Length	Date	Depth to Water (feet TOC)	Groundwater Elevation	Depth to Product (feet TOC)	Depth to Bottom (feet TOC)	Accumulated Thickness of Sediments (feet)	Percent Screen Occluded By Sediments (%)
AW-13	1079.39	19.00	11.0	April 21, 2008	4.66	1074.73	-	19.02	-0.02	0.00
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	-	-	-	-	-	-
				November 10, 2008	-	-	-	19.35	-0.35	0.00
				February 17, 2009	-	-	-	-	-	-
				May 11, 2009	-	-	-	18.84	0.16	1.45
				August 5, 2009	4.37	1075.02	-	18.98	0.02	0.18
				November 30, 2009	-	-	-	18.84	0.16	1.45
				February 24, 2010	-	-	-	-	-	-
				May 17, 2010	-	-	-	18.89	0.11	1.00
				November 1, 2010	4.25	1075.14	-	18.54	0.46	4.18
				May 9, 2011	4.37	1075.02	-	18.63	0.37	3.36
				November 7, 2011	4.40	1074.99	-	18.45	0.55	5.00
				May 29, 2012	4.42	1074.97	-	18.57	0.43	3.91
				November 26, 2012	4.74	1074.65	-	18.55	0.45	4.09
				May 6, 2013	4.47	1074.92	-	18.54	0.46	4.18
				November 12, 2013	4.41	1074.98	-	18.42	0.58	5.27
				May 27, 2014	4.35	1075.04	-	18.25	0.75	6.82
				May 19, 2015	-	-	-	18.20	0.80	7.27
				May 9, 2016	4.45	1074.94	-	18.27	0.73	6.64
				May 16, 2017	4.13	1075.26	-	18.25	0.75	6.82
				May 14, 2018	4.40	1074.99	-	18.20	0.80	7.27
				May 20, 2019	4.12	1075.27	-	18.26	0.74	6.73
				June 15, 2020	-	-	-	18.16	0.84	7.64
AW-14	1079.60	23.05	4.0	April 21, 2008	4.01	1075.59	-	20.05	3.00	75.00
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	-	-	-	-	-	-
				November 10, 2008	-	-	-	20.05	3.00	75.00
				February 17, 2009	-	-	-	-	-	-
				May 11, 2009	-	-	-	19.91	3.14	78.50
				August 5, 2009	4.26	1075.34	-	19.97	3.08	77.00
				November 30, 2009	-	-	-	19.90	3.15	78.75
				February 24, 2010	-	-	-	-	-	-
				May 17, 2010	-	-	-	20.15	2.90	72.50
				November 1, 2010	4.22	1075.38	-	19.86	3.19	79.75
				May 9, 2011	3.39	1076.21	-	21.05	2.00	50.00
				November 7, 2011	4.45	1075.15	-	21.94	1.11	27.75
				May 29, 2012	4.25	1075.35	-	20.80	2.25	56.25
				November 26, 2012	5.34	1074.26	-	20.75	2.30	57.50
				May 6, 2013	4.27	1075.33	-	20.65	2.40	60.00
				November 12, 2013	5.28	1074.32	-	20.73	2.32	58.00
				May 27, 2014	3.79	1075.81	-	20.66	2.39	59.75
				May 19, 2015	-	-	-	20.57	2.48	62.00
				May 9, 2016	4.80	1074.80	-	20.60	2.45	61.25
				May 16, 2017	3.80	1075.80	-	20.64	2.41	60.25
				May 14, 2018	4.10	1075.50	-	20.64	2.41	60.25
				May 20, 2019	3.52	1076.08	-	20.58	2.47	61.75
				June 15, 2020	-	-	-	20.59	2.46	61.50

See notes on last page

Table 2
Gauging Data
2020 Annual Periodic Review Report
NYSEG
Oneonta, New York

Well ID	Measuring Point Elevation	Actual Depth to Bottom	Screen Length	Date	Depth to Water (feet TOC)	Groundwater Elevation	Depth to Product (feet TOC)	Depth to Bottom (feet TOC)	Accumulated Thickness of Sediments (feet)	Percent Screen Occluded By Sediments (%)
AW-15	1079.85	19.33	3.0	April 21, 2008	4.27	1075.58	-	19.34	-0.01	0.00
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	-	-	-	-	-	-
				November 10, 2008	-	-	-	19.34	-0.01	0.00
				February 17, 2009	-	-	-	-	-	-
				May 11, 2009	-	-	-	19.30	0.03	1.00
				August 5, 2009	4.52	1075.33	-	19.35	-0.02	0.00
				November 30, 2009	-	-	-	19.30	0.03	1.00
				February 24, 2010	-	-	-	-	-	-
				May 17, 2010	-	-	-	19.28	0.05	1.67
				November 1, 2010	4.41	1075.44	-	19.86	-0.53	0.00
				May 9, 2011	3.66	1076.19	-	19.29	0.04	1.33
				November 7, 2011	4.69	1075.16	-	19.36	-0.03	0.00
				May 29, 2012	4.51	1075.34	-	19.32	0.01	0.33
				November 26, 2012	5.60	1074.25	-	19.31	0.02	0.67
				May 6, 2013	4.53	1075.32	-	19.10	0.23	7.67
				November 12, 2013	5.56	1074.29	-	19.26	0.07	2.33
				May 27, 2014	4.01	1075.84	-	19.08	0.25	8.33
				May 19, 2015	-	-	-	19.42	-0.09	0.00
				May 9, 2016	5.05	1074.80	-	19.25	0.08	2.67
				May 16, 2017	4.01	1075.84	-	19.26	0.07	2.33
				May 14, 2018	4.35	1075.50	-	19.26	0.07	2.33
				May 20, 2019	3.60	1076.25	-	19.28	0.05	1.67
				June 15, 2020	-	-	-	19.12	0.21	7.00
AW-16	1079.61	18.39	3.0	April 21, 2008	4.04	1075.57	-	17.76	0.63	21.00
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	-	-	-	-	-	-
				November 10, 2008	-	-	-	17.70	0.69	23.00
				February 17, 2009	-	-	-	-	-	-
				May 11, 2009	-	-	-	17.69	0.70	23.33
				August 5, 2009	4.30	1075.31	-	17.71	0.68	22.67
				November 30, 2009	-	-	-	17.69	0.70	23.33
				February 24, 2010	-	-	-	-	-	-
				May 17, 2010	-	-	-	18.39	0.00	0.00
				November 1, 2010	4.19	1075.42	-	18.47	-0.08	0.00
				May 9, 2011	3.39	1076.22	-	18.46	-0.07	0.00
				November 7, 2011	4.44	1075.17	-	18.48	-0.09	0.00
				May 29, 2012	4.29	1075.32	-	18.47	-0.08	0.00
				November 26, 2012	5.37	1074.24	-	18.45	-0.06	0.00
				May 6, 2013	4.32	1075.29	-	18.42	-0.03	0.00
				November 12, 2013	5.31	1074.30	-	18.39	0.00	0.00
				May 27, 2014	3.86	1075.75	-	18.40	-0.01	0.00
				May 19, 2015	-	-	-	18.39	0.00	0.00
				May 9, 2016	4.86	1074.75	-	18.44	-0.05	0.00
				May 16, 2017	3.83	1075.78	-	18.45	-0.06	0.00
				May 14, 2018	4.21	1075.40	-	18.45	-0.06	0.00
				May 20, 2019	3.46	1076.15	-	18.47	-0.08	0.00
				June 15, 2020	-	-	-	18.42	-0.03	0.00

See notes on last page

Table 2
Gauging Data
2020 Annual Periodic Review Report
NYSEG
Oneonta, New York

Well ID	Measuring Point Elevation	Actual Depth to Bottom	Screen Length	Date	Depth to Water (feet TOC)	Groundwater Elevation	Depth to Product (feet TOC)	Depth to Bottom (feet TOC)	Accumulated Thickness of Sediments (feet)	Percent Screen Occluded By Sediments (%)
PMW-01	1079.56	14.65	6.0	April 21, 2008	4.83	1074.73	-	14.67	-0.02	0.00
				May 6, 2008	4.85	1074.71	-	14.50	0.15	2.50
				August 5, 2008	4.76	1074.80	-	14.52	0.13	2.17
				November 10, 2008	4.83	1074.73	-	14.62	0.03	0.50
				February 17, 2009	4.50	1075.06	-	14.50	0.15	2.50
				May 11, 2009	4.64	1074.92	-	14.47	0.18	3.00
				August 5, 2009	4.53	1075.03	-	14.52	0.13	2.17
				November 30, 2009	4.46	1075.10	-	14.41	0.24	4.00
				February 24, 2010	4.65	1074.91	-	14.52	0.13	2.17
				May 17, 2010	4.62	1074.94	-	14.48	0.17	2.83
				November 1, 2010	4.45	1075.11	-	14.47	0.18	3.00
				May 9, 2011	4.54	1075.02	-	14.47	0.18	3.00
				November 7, 2011	4.57	1074.99	-	14.50	0.15	2.50
				May 29, 2012	4.60	1074.96	-	14.51	0.14	2.33
				November 26, 2012	4.93	1074.63	-	14.45	0.20	3.33
				May 6, 2013	4.64	1074.92	-	14.44	0.21	3.50
				November 12, 2013	4.59	1074.97	-	14.44	0.21	3.50
				May 27, 2014	4.54	1075.02	-	14.44	0.21	3.50
				November 17, 2014	4.00	1075.56	-	14.40	0.25	4.17
				May 19, 2015	4.39	1075.17	-	14.40	0.25	4.17
				November 16, 2015	4.69	1074.87	-	14.46	0.19	3.17
				May 9, 2016	4.63	1074.93	-	14.43	0.22	3.67
				November 15, 2016	4.97	1074.59	-	14.38	0.27	4.50
				May 16, 2017	4.31	1075.25	-	14.40	0.25	4.17
				November 6, 2017	-	-	-	-	-	-
				May 14, 2018	4.65	1074.91	-	14.40	0.25	4.17
				November 12, 2018	4.45	1075.11	-	14.43	0.22	3.67
				May 20, 2019	4.29	1075.27	-	14.41	0.24	4.00
				November 4, 2019	4.35	1075.21	-	14.47	0.18	3.00
				June 15, 2020	4.83	1074.73	-	14.40	0.25	4.17
				November 17, 2020	4.91	1074.65	-	14.46	0.19	3.17
PMW-02*	1079.64	11.53	3.0	April 21, 2008	5.74	1074.02	-	11.73	-0.08	0.00
				May 6, 2008	6.09	1073.67	-	11.66	-0.01	0.00
				August 5, 2008	6.22	1073.54	-	11.62	0.03	1.00
				November 10, 2008	6.42	1073.34	-	11.68	-0.03	0.00
				February 17, 2009	5.50	1074.26	-	11.62	0.03	1.00
				May 11, 2009	6.04	1073.72	-	11.65	0.00	0.00
				August 5, 2009	5.63	1074.13	-	11.71	-0.06	0.00
				November 30, 2009	5.89	1073.87	-	11.55	0.10	3.33
				February 24, 2010	6.30	1073.46	-	11.66	-0.01	0.00
				May 17, 2010	5.86	1073.90	-	11.60	0.05	1.67
				November 1, 2010	5.50	1074.26	-	11.68	-0.03	0.00
				May 9, 2011	5.36	1074.40	-	11.67	-0.02	0.00
				November 7, 2011	5.90	1073.86	-	11.67	-0.02	0.00
				May 29, 2012	5.90	1073.86	-	11.70	-0.05	0.00
				November 26, 2012	6.41	1073.35	-	11.65	0.00	0.00
				May 6, 2013	5.79	1073.97	-	11.68	-0.03	0.00
				November 12, 2013	6.35	1073.41	-	11.64	0.01	0.33
				May 27, 2014	5.59	1074.17	-	11.69	-0.04	0.00
				November 17, 2014	-	-	-	-	-	-
				May 19, 2015	5.86	1073.90	-	11.60	0.05	1.67
				November 16, 2015	6.01	1073.75	-	11.63	0.02	0.67
				May 9, 2016	6.18	1073.46	-	11.51	0.02	0.67
				November 15, 2016	6.86	1072.78	-	11.50	0.03	1.00
				May 16, 2017	5.20	1074.44	-	11.53	0.00	0.00
				November 6, 2017	-	-	-	-	-	-
				May 14, 2018	5.70	1073.94	-	11.53	0.00	0.00
				November 12, 2018	5.68	1073.96	-	11.53	0.00	0.00
				May 20, 2019	5.32	1074.32	-	11.53	0.00	0.00
				November 4, 2019	-	-	-	11.52	0.01	0.33
				June 15, 2020	6.58	1073.06	-	11.54	-0.01	0.00
				November 17, 2020	6.88	1072.76	-	11.56	-0.03	0.00

See notes on last page

Table 2
Gauging Data
2020 Annual Periodic Review Report
NYSEG
Oneonta, New York

Well ID	Measuring Point Elevation	Actual Depth to Bottom	Screen Length	Date	Depth to Water (feet TOC)	Groundwater Elevation	Depth to Product (feet TOC)	Depth to Bottom (feet TOC)	Accumulated Thickness of Sediments (feet)	Percent Screen Occluded By Sediments (%)
PMW-03	1079.80	14.57	9.0	April 21, 2008	5.06	1074.74	-	14.59	-0.02	0.00
				May 6, 2008	5.11	1074.69	-	14.60	-0.03	0.00
				August 5, 2008	4.99	1074.81	-	14.59	-0.02	0.00
				November 10, 2008	5.07	1074.73	-	14.59	-0.02	0.00
				February 17, 2009	4.79	1075.01	-	14.55	0.02	0.22
				May 11, 2009	4.87	1074.93	-	14.57	0.00	0.00
				August 5, 2009	4.78	1075.02	-	14.62	-0.05	0.00
				November 30, 2009	4.28	1075.52	-	14.58	-0.01	0.00
				February 24, 2010	4.89	1074.91	-	14.58	-0.01	0.00
				May 17, 2010	4.84	1074.96	-	14.53	0.04	0.44
				November 1, 2010	4.70	1075.10	-	14.58	-0.01	0.00
				May 9, 2011	4.76	1075.04	-	14.58	-0.01	0.00
				November 7, 2011	4.82	1074.98	-	14.50	0.07	0.78
				May 29, 2012	4.81	1074.99	-	14.37	0.20	2.22
				November 26, 2012	5.16	1074.64	-	14.45	0.12	1.33
				May 6, 2013	4.88	1074.92	-	14.50	0.07	0.78
				November 12, 2013	4.88	1074.92	-	14.51	0.06	0.67
				May 27, 2014	4.79	1075.01	-	14.50	0.07	0.78
				November 17, 2014	5.83	1073.97	-	14.52	0.05	0.56
				May 19, 2015	3.35	1076.45	-	14.49	0.08	0.89
				November 16, 2015	4.91	1074.89	-	14.52	0.05	0.56
				May 9, 2016	4.86	1074.94	-	14.51	0.06	0.67
				November 15, 2016	5.21	1074.59	-	14.51	0.06	0.67
				May 16, 2017	4.50	1075.30	-	14.53	0.04	0.44
				November 6, 2017	-	-	-	-	-	-
				May 14, 2018	4.80	1075.00	-	14.53	0.04	0.44
				November 12, 2018	4.65	1075.15	-	14.53	0.04	0.44
				May 20, 2019	4.46	1075.34	-	14.51	0.06	0.67
				November 4, 2019	4.75	1075.05	-	14.51	0.06	0.67
				June 15, 2020	5.04	1074.76	-	14.54	0.03	0.33
				November 17, 2020	5.09	1074.71	-	14.55	0.02	0.22
PMW-04	1080.88	14.50	9.0	April 21, 2008	6.16	1074.72	-	14.54	-0.04	0.00
				May 6, 2008	6.21	1074.67	-	14.55	-0.05	0.00
				August 5, 2008	6.05	1074.83	-	14.49	0.01	0.11
				November 10, 2008	6.15	1074.73	-	14.56	-0.06	0.00
				February 17, 2009	5.85	1075.03	-	14.49	0.01	0.11
				May 11, 2009	5.95	1074.93	-	14.53	-0.03	0.00
				August 5, 2009	5.87	1075.01	-	14.56	-0.06	0.00
				November 30, 2009	5.78	1075.10	-	14.40	0.10	1.11
				February 24, 2010	5.97	1074.91	-	14.53	-0.03	0.00
				May 17, 2010	5.93	1074.95	-	14.49	0.01	0.11
				November 1, 2010	5.77	1075.11	-	14.52	-0.02	0.00
				May 9, 2011	5.86	1075.02	-	14.52	-0.02	0.00
				November 7, 2011	5.90	1074.98	-	14.53	-0.03	0.00
				May 29, 2012	5.91	1074.97	-	14.55	-0.05	0.00
				November 26, 2012	6.24	1074.64	-	14.50	0.00	0.00
				May 6, 2013	5.96	1074.92	-	14.49	0.01	0.11
				November 12, 2013	5.92	1074.96	-	14.70	-0.20	0.00
				May 27, 2014	5.85	1075.03	-	14.46	0.04	0.44
				November 17, 2014	5.32	1075.56	-	14.45	0.05	0.56
				May 19, 2015	5.70	1075.18	-	14.42	0.08	0.89
				November 16, 2015	6.01	1074.87	-	14.45	0.05	0.56
				May 9, 2016	5.96	1074.92	-	14.47	0.03	0.33
				November 15, 2016	6.32	1074.56	-	14.48	0.02	0.22
				May 16, 2017	5.64	1075.24	-	14.45	0.05	0.56
				November 6, 2017	5.82	1075.06	-	14.45	0.05	0.56
				May 14, 2018	5.85	1075.03	-	14.45	0.05	0.56
				November 12, 2018	5.74	1075.14	-	14.47	0.03	0.33
				May 20, 2019	5.60	1075.28	-	14.46	0.04	0.44
				November 4, 2019	5.83	1075.05	-	14.49	0.01	0.11
				June 15, 2020	6.13	1074.75	-	14.50	0.00	0.00
				November 17, 2020	6.17	1074.71	-	14.48	0.02	0.22

See notes on last page

Table 2
Gauging Data
2020 Annual Periodic Review Report
NYSEG
Oneonta, New York

Well ID	Measuring Point Elevation	Actual Depth to Bottom	Screen Length	Date	Depth to Water (feet TOC)	Groundwater Elevation	Depth to Product (feet TOC)	Depth to Bottom (feet TOC)	Accumulated Thickness of Sediments (feet)	Percent Screen Occluded By Sediments (%)
PMW-05	1079.79	15.50	7.0	April 21, 2008	5.02	1074.70	-	16.09	-0.59	0.00
				May 6, 2008	5.07	1074.65	-	16.09	-0.59	0.00
				August 5, 2008	4.93	1074.79	-	16.08	-0.58	0.00
				November 10, 2008	5.02	1074.70	-	16.10	-0.60	0.00
				February 17, 2009	4.68	1075.04	-	16.18	-0.68	0.00
				May 11, 2009	4.82	1074.90	-	16.10	-0.60	0.00
				August 5, 2009	4.71	1075.01	-	16.14	-0.64	0.00
				November 30, 2009	4.61	1075.11	-	16.04	-0.54	0.00
				February 24, 2010	4.83	1074.89	-	16.12	-0.62	0.00
				May 17, 2010	4.79	1074.93	-	16.07	-0.57	0.00
				November 1, 2010	4.62	1075.10	-	16.08	-0.58	0.00
				May 9, 2011	4.72	1075.00	-	16.11	-0.61	0.00
				November 7, 2011	4.75	1074.97	-	16.12	-0.62	0.00
				May 29, 2012	4.77	1074.95	-	16.14	-0.64	0.00
				November 26, 2012	5.09	1074.63	-	16.10	-0.60	0.00
				May 6, 2013	4.82	1074.90	-	16.10	-0.60	0.00
				November 12, 2013	4.78	1074.94	-	16.07	-0.57	0.00
				May 27, 2014	4.71	1075.01	-	16.09	-0.59	0.00
				November 17, 2014	4.14	1075.58	-	16.08	-0.58	0.00
				May 19, 2015	4.52	1075.27	-	16.06	-0.56	0.00
				November 16, 2015	4.86	1074.93	-	16.06	-0.56	0.00
				May 9, 2016	4.82	1074.97	-	16.07	-0.57	0.00
				November 15, 2016	5.14	1074.65	-	16.06	-0.56	0.00
				May 16, 2017	4.45	1075.34	-	16.08	-0.58	0.00
				November 6, 2017	-	-	-	-	-	-
				May 14, 2018	4.75	1075.04	-	16.08	-0.58	0.00
				November 12, 2018	4.60	1075.19	-	16.08	-0.58	0.00
				May 20, 2019	4.45	1075.34	-	16.08	-0.58	0.00
				November 4, 2019	4.68	1075.11	-	16.10	-0.60	0.00
				June 15, 2020	4.99	1074.80	-	16.12	-0.62	0.00
				November 17, 2020	5.03	1074.76	-	16.04	-0.54	0.00
PMW-06	1080.39	16.24	7.0	April 21, 2008	5.65	1074.73	-	16.29	-0.05	0.00
				May 6, 2008	5.71	1074.67	-	16.36	-0.12	0.00
				August 5, 2008	5.57	1074.81	-	16.25	-0.01	0.00
				November 10, 2008	5.65	1074.73	-	16.29	-0.05	0.00
				February 17, 2009	5.33	1075.05	-	16.23	0.01	0.14
				May 11, 2009	5.45	1074.93	-	16.27	-0.03	0.00
				August 5, 2009	5.37	1075.01	-	16.15	0.09	1.29
				November 30, 2009	5.27	1075.11	-	16.05	0.19	2.71
				February 24, 2010	5.46	1074.92	-	15.95	0.29	4.14
				May 17, 2010	5.43	1074.95	-	15.84	0.40	5.71
				November 1, 2010	5.27	1075.11	-	15.86	0.38	5.43
				May 9, 2011	5.35	1075.03	-	15.85	0.39	5.57
				November 7, 2011	5.39	1074.99	-	16.30	-0.06	0.00
				May 29, 2012	5.42	1074.96	-	16.29	-0.05	0.00
				November 26, 2012	5.73	1074.65	-	16.25	-0.01	0.00
				May 6, 2013	5.45	1074.93	-	16.23	0.01	0.14
				November 12, 2013	5.38	1075.00	-	16.25	-0.01	0.00
				May 27, 2014	5.34	1075.04	-	16.23	0.01	0.14
				November 17, 2014	4.78	1075.60	-	14.52	1.72	24.57
				May 19, 2015	5.15	1075.24	-	16.18	0.06	0.86
				November 16, 2015	5.51	1074.88	-	16.19	0.05	0.71
				May 9, 2016	5.45	1074.94	-	16.23	0.01	0.14
				November 15, 2016	5.80	1074.59	-	16.18	0.06	0.86
				May 16, 2017	5.12	1075.27	-	16.18	0.06	0.86
				November 6, 2017	5.30	1075.09	-	16.18	0.06	0.86
				May 14, 2018	5.35	1075.04	-	16.20	0.04	0.57
				November 12, 2018	5.19	1075.20	-	16.21	0.03	0.43
				May 20, 2019	5.11	1075.28	-	16.20	0.04	0.57
				November 4, 2019	5.33	1075.06	-	16.20	0.04	0.57
				June 15, 2020	5.64	1074.75	-	16.20	0.04	0.57
				November 17, 2020	5.67	1074.72	-	16.25	-0.01	0.00

See notes on last page

Table 2
Gauging Data
2020 Annual Periodic Review Report
NYSEG
Oneonta, New York

Well ID	Measuring Point Elevation	Actual Depth to Bottom	Screen Length	Date	Depth to Water (feet TOC)	Groundwater Elevation	Depth to Product (feet TOC)	Depth to Bottom (feet TOC)	Accumulated Thickness of Sediments (feet)	Percent Screen Occluded By Sediments (%)
PMW-07	1079.93	23.60	4.0	April 21, 2008	4.29	1075.64	-	22.26	1.34	33.50
				May 6, 2008	4.70	1075.23	-	22.26	1.34	33.50
				August 5, 2008	5.26	1074.67	-	22.18	1.42	35.50
				November 10, 2008	5.59	1074.34	-	22.43	1.17	29.25
				February 17, 2009	4.67	1075.26	-	22.43	1.17	29.25
				May 11, 2009	4.93	1075.00	-	22.43	1.17	29.25
				August 5, 2009	4.49	1075.44	-	22.25	1.35	33.75
				November 30, 2009	4.89	1075.04	-	22.14	1.46	36.50
				February 24, 2010	5.25	1074.68	-	22.24	1.36	34.00
				May 17, 2010	4.58	1075.35	-	22.15	1.45	36.25
				November 1, 2010	4.29	1075.64	-	21.12	2.48	62.00
				May 9, 2011	3.63	1076.30	-	23.60	0.00	0.00
				November 7, 2011	4.68	1075.25	-	22.95	0.65	16.25
				May 29, 2012	4.51	1075.42	-	22.86	0.74	18.50
				November 26, 2012	5.56	1074.37	-	22.90	0.70	17.50
				May 6, 2013	4.53	1075.40	-	23.65	-0.05	0.00
				November 12, 2013	5.48	1074.45	-	23.49	0.11	2.75
				May 27, 2014	4.07	1075.86	-	23.35	0.25	6.25
				November 17, 2014	5.10	1074.83	-	23.28	0.32	8.00
				May 19, 2015	4.97	1074.96	-	23.28	0.32	8.00
				November 16, 2015	4.84	1075.09	-	23.33	0.27	6.75
				May 9, 2016	5.01	1074.92	-	23.25	0.35	8.75
				November 15, 2016	5.96	1073.97	-	23.21	0.39	9.75
				May 16, 2017	4.05	1075.88	-	23.20	0.40	10.00
				November 6, 2017	-	-	-	-	-	-
				May 14, 2018	4.40	1075.53	-	23.20	0.40	10.00
				November 12, 2018	4.44	1075.49	-	23.20	0.40	10.00
				May 20, 2019	3.83	1076.10	-	23.14	0.46	11.50
				November 4, 2019	4.02	1075.91	-	23.23	0.37	9.25
				June 15, 2020	5.52	1074.41	-	23.24	0.36	9.00
				November 17, 2020	5.83	1074.10	-	23.09	0.51	12.75
PMW-08	1079.54	23.04	4.0	April 21, 2008	4.46	1075.08	-	23.08	-0.04	0.00
				May 6, 2008	5.32	1074.22	-	23.08	-0.04	0.00
				August 5, 2008	5.08	1074.46	-	23.02	0.02	0.50
				November 10, 2008	5.45	1074.09	-	23.12	-0.08	0.00
				February 17, 2009	4.55	1074.99	-	23.02	0.02	0.50
				May 11, 2009	4.89	1074.65	-	23.08	-0.04	0.00
				August 5, 2009	4.55	1074.99	-	23.11	-0.07	0.00
				November 30, 2009	4.85	1074.69	-	22.99	0.05	1.25
				February 24, 2010	5.15	1074.39	-	23.09	-0.05	0.00
				May 17, 2010	4.63	1074.91	-	23.05	-0.01	0.00
				November 1, 2010	4.34	1075.20	-	23.07	-0.03	0.00
				May 9, 2011	4.03	1075.51	-	23.09	-0.05	0.00
				November 7, 2011	4.65	1074.89	-	23.10	-0.06	0.00
				May 29, 2012	4.65	1074.89	-	23.13	-0.09	0.00
				November 26, 2012	5.38	1074.16	-	23.09	-0.05	0.00
				May 6, 2013	4.62	1074.92	-	23.10	-0.06	0.00
				November 12, 2013	5.24	1074.30	-	23.05	-0.01	0.00
				May 27, 2014	4.30	1075.24	-	23.09	-0.05	0.00
				November 17, 2014	5.02	1074.52	-	23.06	-0.02	0.00
				May 19, 2015	4.94	1074.60	-	23.03	0.01	0.25
				November 16, 2015	4.72	1074.82	-	23.05	-0.01	0.00
				May 9, 2016	4.96	1074.58	-	23.05	-0.01	0.00
				November 15, 2016	5.78	1073.76	-	23.05	-0.01	0.00
				May 16, 2017	4.10	1075.44	-	23.07	-0.03	0.00
				November 6, 2017	-	-	-	-	-	-
				May 14, 2018	5.50	1074.04	-	23.07	-0.03	0.00
				November 12, 2018	4.41	1075.13	-	23.07	-0.03	0.00
				May 20, 2019	4.02	1075.52	-	23.04	0.00	0.00
				November 4, 2019	4.41	1075.13	-	23.06	-0.02	0.00
				June 15, 2020	5.42	1074.12	-	23.00	0.04	1.00
				November 17, 2020	5.82	1073.72	-	23.07	-0.03	0.00

See notes on last page

Table 2
Gauging Data
2020 Annual Periodic Review Report
NYSEG
Oneonta, New York

Well ID	Measuring Point Elevation	Actual Depth to Bottom	Screen Length	Date	Depth to Water (feet TOC)	Groundwater Elevation	Depth to Product (feet TOC)	Depth to Bottom (feet TOC)	Accumulated Thickness of Sediments (feet)	Percent Screen Occluded By Sediments (%)
PMW-09	1080.18	14.43	8.5	April 21, 2008	5.45	1074.73	-	14.45	-0.02	0.00
				May 6, 2008	5.51	1074.67	-	14.47	-0.04	0.00
				August 5, 2008	5.36	1074.82	-	14.41	0.02	0.24
				November 10, 2008	5.45	1074.73	-	14.44	-0.01	0.00
				February 17, 2009	5.14	1075.04	-	14.40	0.03	0.35
				May 11, 2009	5.25	1074.93	-	14.44	-0.01	0.00
				August 5, 2009	5.16	1075.02	-	14.47	-0.04	0.00
				November 30, 2009	5.09	1075.09	-	14.35	0.08	0.94
				February 24, 2010	5.27	1074.91	-	14.45	-0.02	0.00
				May 17, 2010	5.21	1074.97	-	14.41	0.02	0.24
				November 1, 2010	5.08	1075.10	-	14.45	-0.02	0.00
				May 9, 2011	5.16	1075.02	-	14.42	0.01	0.12
				November 7, 2011	5.20	1074.98	-	14.46	-0.03	0.00
				May 29, 2012	5.21	1074.97	-	14.47	-0.04	0.00
				November 26, 2012	5.54	1074.64	-	14.45	-0.02	0.00
				May 6, 2013	5.26	1074.92	-	14.44	-0.01	0.00
				November 12, 2013	5.20	1074.98	-	14.41	0.02	0.24
				May 27, 2014	5.15	1075.03	-	14.45	-0.02	0.00
				November 17, 2014	4.60	1075.58	-	14.42	0.01	0.12
				May 19, 2015	5.01	1075.17	-	14.40	0.03	0.35
				November 16, 2015	5.31	1074.87	-	14.42	0.01	0.12
				May 9, 2016	5.30	1074.88	-	14.41	0.02	0.24
				November 15, 2016	5.60	1074.58	-	14.42	0.01	0.12
				May 16, 2017	4.94	1075.24	-	14.42	0.01	0.12
				November 6, 2017	5.12	1075.06	-	14.42	0.01	0.12
				May 14, 2018	5.16	1075.02	-	14.42	0.01	0.12
				November 12, 2018	5.04	1075.14	-	14.41	0.02	0.24
				May 20, 2019	4.91	1075.27	-	14.40	0.03	0.35
				November 4, 2019	5.13	1075.05	-	14.43	0.00	0.00
				June 15, 2020	5.45	1074.73	-	14.43	0.00	0.00
				November 17, 2020	5.47	1074.71	-	14.43	0.00	0.00
PMW-10	1080.25	14.70	8.5	April 21, 2008	5.52	1074.73	-	14.72	-0.02	0.00
				May 6, 2008	5.55	1074.70	-	14.70	0.00	0.00
				August 5, 2008	5.44	1074.81	-	14.68	0.02	0.24
				November 10, 2008	5.51	1074.74	-	14.74	-0.04	0.00
				February 17, 2009	5.23	1075.02	-	14.67	0.03	0.35
				May 11, 2009	5.33	1074.92	-	14.70	0.00	0.00
				August 5, 2009	5.23	1075.02	-	14.76	-0.06	0.00
				November 30, 2009	5.14	1075.11	-	14.63	0.07	0.82
				February 24, 2010	5.33	1074.92	-	14.73	-0.03	0.00
				May 17, 2010	5.30	1074.95	-	14.96	-0.26	0.00
				November 1, 2010	5.14	1075.11	-	14.72	-0.02	0.00
				May 9, 2011	5.23	1075.02	-	14.72	-0.02	0.00
				November 7, 2011	5.26	1074.99	-	14.75	-0.05	0.00
				May 29, 2012	5.29	1074.96	-	14.71	-0.01	0.00
				November 26, 2012	5.60	1074.65	-	14.72	-0.02	0.00
				May 6, 2013	5.33	1074.92	-	14.71	-0.01	0.00
				November 12, 2013	5.28	1074.97	-	14.66	0.04	0.47
				May 27, 2014	5.22	1075.03	-	14.75	-0.05	0.00
				November 17, 2014	4.68	1075.57	-	14.70	0.00	0.00
				May 19, 2015	5.06	1075.19	-	14.66	0.04	0.47
				November 16, 2015	5.38	1074.87	-	14.69	0.01	0.12
				May 9, 2016	5.32	1074.93	-	14.68	0.02	0.24
				November 15, 2016	5.66	1074.59	-	14.70	0.00	0.00
				May 16, 2017	5.02	1075.23	-	14.68	0.02	0.24
				November 6, 2017	5.18	1075.07	-	14.70	0.00	0.00
				May 14, 2018	5.25	1075.00	-	14.70	0.00	0.00
				November 12, 2018	5.09	1075.16	-	14.69	0.01	0.12
				May 20, 2019	4.98	1075.27	-	14.70	0.00	0.00
				November 4, 2019	6.30	1073.95	-	14.70	0.00	0.00
				June 15, 2020	5.52	1074.73	-	14.70	0.00	0.00
				November 17, 2020	5.54	1074.71	-	14.70	0.00	0.00

See notes on last page

Table 2
Gauging Data
2020 Annual Periodic Review Report
NYSEG
Oneonta, New York

Well ID	Measuring Point Elevation	Actual Depth to Bottom	Screen Length	Date	Depth to Water (feet TOC)	Groundwater Elevation	Depth to Product (feet TOC)	Depth to Bottom (feet TOC)	Accumulated Thickness of Sediments (feet)	Percent Screen Occluded By Sediments (%)
PMW-11	1080.25	14.65	7.5	April 21, 2008	5.52	1074.73	-	14.68	-0.03	0.00
				May 6, 2008	5.56	1074.69	-	14.65	0.00	0.00
				August 5, 2008	5.45	1074.80	-	14.64	0.01	0.13
				November 10, 2008	5.53	1074.72	-	14.65	0.00	0.00
				February 17, 2009	5.22	1075.03	-	14.63	0.02	0.27
				May 11, 2009	5.33	1074.92	-	14.65	0.00	0.00
				August 5, 2009	5.25	1075.00	-	14.71	-0.06	0.00
				November 30, 2009	5.16	1075.09	-	14.58	0.07	0.93
				February 24, 2010	5.32	1074.93	-	14.67	-0.02	0.00
				May 17, 2010	5.31	1074.94	-	14.64	0.01	0.13
				November 1, 2010	3.13	1077.12	-	14.69	-0.04	0.00
				May 9, 2011	5.24	1075.01	-	14.67	-0.02	0.00
				November 7, 2011	5.27	1074.98	-	14.70	-0.05	0.00
				May 29, 2012	5.30	1074.95	-	14.67	-0.02	0.00
				November 26, 2012	5.60	1074.65	-	14.69	-0.04	0.00
				May 6, 2013	5.33	1074.92	-	14.64	0.01	0.13
				November 12, 2013	5.29	1074.96	-	14.62	0.03	0.40
				May 27, 2014	5.22	1075.03	-	14.69	-0.04	0.00
				November 17, 2014	4.67	1075.58	-	14.65	0.00	0.00
				May 19, 2015	5.03	1075.22	-	14.61	0.04	0.53
				November 16, 2015	5.39	1074.86	-	14.65	0.00	0.00
				May 9, 2016	5.43	1074.82	-	14.65	0.00	0.00
				November 15, 2016	5.67	1074.58	-	14.65	0.00	0.00
				May 16, 2017	5.02	1075.23	-	14.64	0.01	0.13
				November 6, 2017	5.20	1075.05	-	14.63	0.02	0.27
				May 14, 2018	5.25	1075.00	-	14.65	0.00	0.00
				November 12, 2018	5.12	1075.13	-	14.64	0.01	0.13
				May 20, 2019	4.99	1075.26	-	14.65	0.00	0.00
				November 4, 2019	5.21	1075.04	-	14.65	0.00	0.00
				June 15, 2020	5.57	1074.68	-	14.66	-0.01	0.00
				November 17, 2020	5.55	1074.70	-	14.63	0.02	0.27
PMW-12	1080.34	15.20	7.0	April 21, 2008	5.61	1074.73	-	16.43	-1.23	0.00
				May 6, 2008	5.66	1074.68	-	16.34	-1.14	0.00
				August 5, 2008	5.50	1074.84	-	16.31	-1.11	0.00
				November 10, 2008	5.60	1074.74	-	16.30	-1.10	0.00
				February 17, 2009	5.30	1075.04	-	16.30	-1.10	0.00
				May 11, 2009	5.41	1074.93	-	16.20	-1.00	0.00
				August 5, 2009	5.33	1075.01	-	16.36	-1.16	0.00
				November 30, 2009	5.22	1075.12	-	16.24	-1.04	0.00
				February 24, 2010	5.42	1074.92	-	16.23	-1.03	0.00
				May 17, 2010	5.38	1074.96	-	16.31	-1.11	0.00
				November 1, 2010	5.21	1075.13	-	16.21	-1.01	0.00
				May 9, 2011	5.31	1075.03	-	16.22	-1.02	0.00
				November 7, 2011	5.34	1075.00	-	16.32	-1.12	0.00
				May 29, 2012	5.37	1074.97	-	16.37	-1.17	0.00
				November 26, 2012	5.69	1074.65	-	16.31	-1.11	0.00
				May 6, 2013	5.41	1074.93	-	16.31	-1.11	0.00
				November 12, 2013	5.35	1074.99	-	16.35	-1.15	0.00
				May 27, 2014	5.30	1075.04	-	16.32	-1.12	0.00
				November 17, 2014	4.73	1075.61	-	16.25	-1.05	0.00
				May 19, 2015	5.10	1075.24	-	16.26	-1.06	0.00
				November 16, 2015	5.45	1074.89	-	16.25	-1.05	0.00
				May 9, 2016	5.41	1074.93	-	16.28	-1.08	0.00
				November 15, 2016	5.75	1074.59	-	16.31	-1.11	0.00
				May 16, 2017	5.08	1075.26	-	16.25	-1.05	0.00
				November 6, 2017	5.21	1075.13	-	16.25	-1.05	0.00
				May 14, 2018	5.30	1075.04	-	16.25	-1.05	0.00
				November 12, 2018	5.19	1075.15	-	16.27	-1.07	0.00
				May 20, 2019	5.05	1075.29	-	16.28	-1.08	0.00
				November 4, 2019	5.28	1075.06	-	16.28	-1.08	0.00
				June 15, 2020	5.58	1074.76	-	16.30	-1.10	0.00
				November 17, 2020	5.62	1074.72	-	16.30	-1.10	0.00

See notes on last page

Table 2
Gauging Data
2020 Annual Periodic Review Report
NYSEG
Oneonta, New York

Well ID	Measuring Point Elevation	Actual Depth to Bottom	Screen Length	Date	Depth to Water (feet TOC)	Groundwater Elevation	Depth to Product (feet TOC)	Depth to Bottom (feet TOC)	Accumulated Thickness of Sediments (feet)	Percent Screen Occluded By Sediments (%)
PMW-13	1080.16	15.53	6.5	April 21, 2008	5.45	1074.71	-	16.13	-0.60	0.00
				May 6, 2008	5.48	1074.68	-	16.13	-0.60	0.00
				August 5, 2008	5.34	1074.82	-	16.10	-0.57	0.00
				November 10, 2008	5.41	1074.75	-	16.15	-0.62	0.00
				February 17, 2009	5.10	1075.06	-	16.07	-0.54	0.00
				May 11, 2009	5.22	1074.94	-	16.12	-0.59	0.00
				August 5, 2009	5.14	1075.02	-	16.15	-0.62	0.00
				November 30, 2009	5.03	1075.13	-	16.04	-0.51	0.00
				February 24, 2010	5.24	1074.92	-	16.12	-0.59	0.00
				May 17, 2010	5.20	1074.96	-	16.08	-0.55	0.00
				November 1, 2010	5.04	1075.12	-	16.13	-0.60	0.00
				May 9, 2011	5.13	1075.03	-	16.12	-0.59	0.00
				November 7, 2011	5.18	1074.98	-	16.16	-0.63	0.00
				May 29, 2012	5.20	1074.96	-	16.16	-0.63	0.00
				November 26, 2012	5.52	1074.64	-	16.13	-0.60	0.00
				May 6, 2013	5.23	1074.93	-	16.13	-0.60	0.00
				November 12, 2013	5.18	1074.98	-	16.08	-0.55	0.00
				May 27, 2014	5.12	1075.04	-	16.14	-0.61	0.00
				November 17, 2014	4.57	1075.59	-	16.10	-0.57	0.00
				May 19, 2015	4.92	1075.24	-	16.09	-0.56	0.00
				November 16, 2015	5.22	1074.94	-	16.09	-0.56	0.00
				May 9, 2016	5.23	1074.93	-	16.10	-0.57	0.00
				November 15, 2016	5.51	1074.65	-	16.10	-0.57	0.00
				May 16, 2017	4.89	1075.27	-	16.10	-0.57	0.00
				November 6, 2017	5.03	1075.13	-	16.09	-0.56	0.00
				May 14, 2018	5.15	1075.01	-	16.10	-0.57	0.00
				November 12, 2018	4.97	1075.19	-	16.09	-0.56	0.00
				May 20, 2019	4.87	1075.29	-	16.08	-0.55	0.00
				November 4, 2019	5.10	1075.06	-	16.10	-0.57	0.00
				June 15, 2020	5.41	1074.75	-	16.11	-0.58	0.00
				November 17, 2020	5.44	1074.72	-	16.11	-0.58	0.00
PMW-14	1080.03	15.90	6.0	April 21, 2008	5.30	1074.73	-	15.96	-0.06	0.00
				May 6, 2008	5.34	1074.69	-	15.96	-0.06	0.00
				August 5, 2008	5.22	1074.81	-	15.92	-0.02	0.00
				November 10, 2008	5.29	1074.74	-	16.03	-0.13	0.00
				February 17, 2009	4.97	1075.06	-	15.90	0.00	0.00
				May 11, 2009	5.10	1074.93	-	15.94	-0.04	0.00
				August 5, 2009	5.01	1075.02	-	15.99	-0.09	0.00
				November 30, 2009	4.88	1075.15	-	15.87	0.03	0.50
				February 24, 2010	5.11	1074.92	-	15.96	-0.06	0.00
				May 17, 2010	5.09	1074.94	-	15.91	-0.01	0.00
				November 1, 2010	4.88	1075.15	-	15.96	-0.06	0.00
				May 9, 2011	4.99	1075.04	-	15.96	-0.06	0.00
				November 7, 2011	5.01	1075.02	-	15.97	-0.07	0.00
				May 29, 2012	5.08	1074.95	-	15.98	-0.08	0.00
				November 26, 2012	5.37	1074.66	-	15.95	-0.05	0.00
				May 6, 2013	5.09	1074.94	-	15.95	-0.05	0.00
				November 12, 2013	5.03	1075.00	-	15.91	-0.01	0.00
				May 27, 2014	4.92	1075.11	-	15.96	-0.06	0.00
				November 17, 2014	4.47	1075.56	-	15.92	-0.02	0.00
				May 19, 2015	4.78	1075.25	-	15.90	0.00	0.00
				November 16, 2015	5.14	1074.89	-	15.92	-0.02	0.00
				May 9, 2016	5.08	1074.95	-	15.91	-0.01	0.00
				November 15, 2016	5.42	1074.61	-	15.92	-0.02	0.00
				May 16, 2017	4.74	1075.29	-	15.91	-0.01	0.00
				November 6, 2017	4.86	1075.17	-	15.90	0.00	0.00
				May 14, 2018	5.05	1074.98	-	15.91	-0.01	0.00
				November 12, 2018	4.86	1075.17	-	15.91	-0.01	0.00
				May 20, 2019	4.71	1075.32	-	15.92	-0.02	0.00
				November 4, 2019	4.95	1075.08	-	15.93	-0.03	0.00
				June 15, 2020	5.28	1074.75	-	15.95	-0.05	0.00
				November 17, 2020	5.30	1074.73	-	15.95	-0.05	0.00

See notes on last page

Table 2
Gauging Data
2020 Annual Periodic Review Report
NYSEG
Oneonta, New York

Well ID	Measuring Point Elevation	Actual Depth to Bottom	Screen Length	Date	Depth to Water (feet TOC)	Groundwater Elevation	Depth to Product (feet TOC)	Depth to Bottom (feet TOC)	Accumulated Thickness of Sediments (feet)	Percent Screen Occluded By Sediments (%)
NRW-01*	1079.09	18.36	13.0	April 21, 2008	4.41	1074.68	-	18.42	-0.06	0.00
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	5.29	1073.80	-	18.44	-0.08	0.00
				November 10, 2008	5.52	1073.57	-	18.42	-0.06	0.00
				February 17, 2009	4.51	1074.58	-	18.44	-0.08	0.00
				May 11, 2009	5.02	1074.07	-	18.44	-0.08	0.00
				August 5, 2009	-	-	-	-	-	-
				November 30, 2009	4.95	1074.14	-	18.33	0.03	0.00
				February 24, 2010	-	-	-	-	-	-
				May 17, 2010	4.73	1074.36	-	18.39	-0.03	0.00
				November 1, 2010	4.28	1074.81	-	18.41	-0.05	0.00
				May 9, 2011	3.98	1075.11	-	18.43	-0.07	0.00
				November 7, 2011	4.79	1074.30	-	18.45	-0.09	0.00
				May 29, 2012	4.73	1074.36	-	18.44	-0.08	0.00
				November 26, 2012	5.48	1073.61	-	18.43	-0.07	0.00
				May 6, 2013	4.68	1074.41	-	18.45	-0.09	0.00
				November 12, 2013	5.43	1073.66	-	18.35	0.01	0.00
				May 27, 2014	4.31	1074.78	-	18.44	-0.08	0.00
				November 17, 2014	4.72	1074.37	-	18.40	-0.04	0.00
				May 19, 2015	4.86	1074.23	-	18.39	-0.03	0.00
				November 16, 2015	4.74	1074.35	-	18.42	-0.06	0.00
				May 9, 2016	5.09	1074.00	-	18.38	-0.02	0.00
				November 15, 2016	6.01	1073.08	-	18.40	-0.04	0.00
				May 16, 2017	3.85	1075.24	-	18.41	-0.05	0.00
				November 6, 2017	5.30	1073.79	-	18.40	-0.04	0.00
				May 14, 2018	4.54	1074.55	-	18.40	-0.04	0.00
				November 12, 2018	4.43	1074.66	-	18.38	-0.02	0.00
				May 20, 2019	3.92	1075.17	-	18.42	-0.06	0.00
				November 4, 2019	4.51	1074.58	-	18.39	-0.03	0.00
				June 15, 2020	5.69	1073.40	-	18.49	-0.13	0.00
				November 17, 2020	6.22	1072.87	-	18.43	-0.07	0.00
NRW-02*	1079.40	13.20	8.0	April 21, 2008	4.78	1074.72	-	13.34	-0.04	0.00
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	5.68	1073.82	-	13.25	0.05	0.00
				November 10, 2008	5.92	1073.58	-	13.35	-0.05	0.00
				February 17, 2009	4.90	1074.60	-	13.28	0.02	0.00
				May 11, 2009	5.40	1074.10	-	13.25	0.05	0.00
				August 5, 2009	-	-	-	-	-	-
				November 30, 2009	5.35	1074.15	-	13.12	0.18	0.00
				February 24, 2010	-	-	-	-	-	-
				May 17, 2010	5.10	1074.40	-	13.19	0.11	0.00
				November 1, 2010	4.46	1075.04	-	13.35	-0.05	0.00
				May 9, 2011	4.32	1075.18	-	13.35	-0.05	0.00
				November 7, 2011	5.18	1074.32	-	13.24	0.06	0.00
				May 29, 2012	5.14	1074.36	-	13.29	0.01	0.00
				November 26, 2012	5.87	1073.63	-	13.35	-0.05	0.00
				May 6, 2013	5.05	1074.45	-	13.26	0.04	0.00
				November 12, 2013	5.85	1073.65	-	13.29	0.01	0.00
				May 27, 2014	4.74	1074.76	-	13.25	0.05	0.00
				November 17, 2014	5.27	1074.23	-	13.37	-0.07	0.00
				May 19, 2015	5.31	1074.19	-	13.21	0.09	0.00
				November 16, 2015	5.20	1074.30	-	13.28	0.02	0.00
				May 9, 2016	5.43	1073.97	-	13.18	0.02	0.00
				November 15, 2016	6.35	1073.05	-	13.13	0.07	0.00
				May 16, 2017	4.22	1075.18	-	13.20	0.00	0.00
				November 6, 2017	5.61	1073.79	-	13.14	0.06	0.00
				May 14, 2018	4.95	1074.45	-	13.20	0.00	0.00
				November 12, 2018	4.82	1074.58	-	13.24	-0.04	0.00
				May 20, 2019	4.20	1075.20	-	13.21	-0.01	0.00
				November 4, 2019	4.92	1074.48	-	13.23	-0.03	0.00
				June 15, 2020	6.09	1073.31	-	13.23	-0.03	0.00
				November 17, 2020	6.62	1072.78	-	13.29	-0.09	0.00

See notes on last page

Table 2
Gauging Data
2020 Annual Periodic Review Report
NYSEG
Oneonta, New York

Well ID	Measuring Point Elevation	Actual Depth to Bottom	Screen Length	Date	Depth to Water (feet TOC)	Groundwater Elevation	Depth to Product (feet TOC)	Depth to Bottom (feet TOC)	Accumulated Thickness of Sediments (feet)	Percent Screen Occluded By Sediments (%)
NRW-03*	1080.26	17.67	18.0	April 21, 2008	4.67	1075.59	-	17.68	-0.01	0.00
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	5.89	1074.37	-	17.71	-0.04	0.00
				November 10, 2008	6.18	1074.08	-	17.74	-0.07	0.00
				February 17, 2009	5.30	1074.96	-	17.74	-0.07	0.00
				May 11, 2009	5.46	1074.80	-	17.72	-0.05	0.00
				August 5, 2009	-	-	-	-	-	-
				November 30, 2009	5.56	1074.70	-	17.72	-0.05	0.00
				February 24, 2010	-	-	-	-	-	-
				May 17, 2010	5.06	1075.20	-	17.70	-0.03	0.00
				November 1, 2010	4.76	1075.50	-	17.73	-0.06	0.00
				May 9, 2011	4.14	1076.12	-	17.78	-0.11	0.00
				November 7, 2011	5.25	1075.01	-	17.78	-0.11	0.00
				May 29, 2012	5.25	1075.01	-	17.79	-0.12	0.00
				November 26, 2012	6.22	1074.04	-	17.78	-0.11	0.00
				May 6, 2013	5.21	1075.05	-	17.79	-0.12	0.00
				November 12, 2013	6.18	1074.08	-	17.73	-0.06	0.00
				May 27, 2014	4.79	1075.47	-	17.84	-0.17	0.00
				November 17, 2014	6.25	1074.01	-	17.80	-0.13	0.00
				May 19, 2015	6.09	1074.17	-	17.85	-0.18	0.00
				November 16, 2015	5.45	1074.81	-	17.90	-0.23	0.00
				May 9, 2016	5.84	1074.42	-	17.89	-0.22	0.00
				November 15, 2016	6.92	1073.34	-	17.90	-0.23	0.00
				May 16, 2017	4.90	1075.36	-	17.96	-0.29	0.00
				November 6, 2017	6.59	1073.67	-	17.92	-0.25	0.00
				May 14, 2018	5.35	1074.91	-	17.97	-0.30	0.00
				November 12, 2018	5.14	1075.12	-	17.95	-0.28	0.00
				May 20, 2019	4.75	1075.51	-	17.65	0.02	0.00
				Location abandoned May 22, 2019						
NRW-04*	1080.55	22.60	18.0	April 21, 2008	4.94	1075.61	-	22.29	0.31	0.00
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	6.15	1074.40	-	22.24	0.36	0.00
				November 10, 2008	6.44	1074.11	-	22.38	0.22	0.00
				February 17, 2009	5.31	1075.24	-	22.38	0.22	0.00
				May 11, 2009	5.72	1074.83	-	22.23	0.37	0.00
				August 5, 2009	-	-	-	-	-	-
				November 30, 2009	5.81	1074.74	-	22.22	0.38	0.00
				February 24, 2010	-	-	-	-	-	-
				May 17, 2010	5.28	1075.27	-	22.12	0.48	0.00
				November 1, 2010	4.98	1075.57	-	22.09	0.51	0.00
				May 9, 2011	4.43	1076.12	-	22.09	0.51	0.00
				November 7, 2011	5.44	1075.11	-	22.05	0.55	0.00
				May 29, 2012	5.43	1075.12	-	22.12	0.48	0.00
				November 26, 2012	6.40	1074.15	-	22.10	0.50	0.00
				May 6, 2013	5.39	1075.16	-	22.10	0.50	0.00
				November 12, 2013	6.38	1074.17	-	22.51	0.09	0.00
				May 27, 2014	4.90	1075.65	-	22.13	0.47	0.00
				November 17, 2014	6.35	1074.20	-	22.11	0.49	0.00
				May 19, 2015	6.13	1074.42	-	22.64	-0.04	0.00
				November 16, 2015	5.51	1075.04	-	22.54	0.06	0.00
				May 9, 2016	5.92	1074.63	-	22.65	-0.05	0.00
				November 15, 2016	6.87	1073.68	-	22.55	0.05	0.00
				May 16, 2017	4.94	1075.61	-	22.68	-0.08	0.00
				November 7, 2017	6.60	1073.95	-	22.70	-0.10	0.00
				May 14, 2018	5.30	1075.25	-	22.65	-0.05	0.00
				November 12, 2018	5.12	1075.43	-	22.60	0.00	0.00
				May 20, 2019	4.74	1075.81	-	22.55	0.05	0.00
				Location abandoned May 22, 2019						

See notes on last page

Table 2
Gauging Data
2020 Annual Periodic Review Report
NYSEG
Oneonta, New York

Well ID	Measuring Point Elevation	Actual Depth to Bottom	Screen Length	Date	Depth to Water (feet TOC)	Groundwater Elevation	Depth to Product (feet TOC)	Depth to Bottom (feet TOC)	Accumulated Thickness of Sediments (feet)	Percent Screen Occluded By Sediments (%)
NRW-05*	1080.76	20.74	14.0	April 21, 2008	NA	NA	-	NA	-	-
				May 6, 2008	NA	NA	-	NA	-	-
				August 5, 2008	NA	NA	-	NA	-	-
				November 10, 2008	NA	NA	-	NA	-	-
				February 17, 2009	-	-	-	-	-	-
				May 11, 2009	6.11	1074.65	-	20.03	0.71	0.00
				August 5, 2009	-	-	-	-	-	-
				November 30, 2009	6.22	1074.54	-	20.15	0.59	0.00
				February 24, 2010	-	-	-	-	-	-
				May 17, 2010	5.59	1075.17	-	20.22	0.52	0.00
				November 1, 2010	5.18	1075.58	-	20.25	0.49	0.00
				May 9, 2011	4.37	1076.39	-	20.27	0.47	0.00
				November 7, 2011	5.80	1074.96	-	20.30	0.44	0.00
				May 29, 2012	5.78	1074.98	-	20.27	0.47	0.00
				November 26, 2012	6.91	1073.85	-	20.30	0.44	0.00
				May 6, 2013	5.68	1075.08	-	20.26	0.48	0.00
				November 12, 2013	6.87	1073.89	-	20.22	0.52	0.00
				May 27, 2014	5.08	1075.68	-	20.28	0.46	0.00
				November 17, 2014	5.48	1075.28	-	20.24	0.50	0.00
				May 19, 2015	6.60	1074.16	-	20.65	0.09	0.00
				November 16, 2015	5.77	1074.99	-	20.64	0.10	0.00
				May 9, 2016	6.28	1074.48	-	20.65	0.09	0.00
				November 15, 2016	7.59	1073.17	-	20.67	0.07	0.00
				May 16, 2017	5.07	1075.69	-	20.68	0.06	0.00
				November 6, 2017	7.20	1073.56	-	20.68	0.06	0.00
				May 14, 2018	5.61	1075.15	-	20.68	0.06	0.00
				November 12, 2018	5.39	1075.37	-	20.66	0.08	0.00
				May 20, 2019	4.43	1076.33	-	20.68	0.06	0.00
				Location abandoned May 22, 2019						
PZ-0801	1078.90	15.00	11.0	April 21, 2008	3.57	1075.16	-	14.89	0.11	1.00
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	-	-	-	-	-	-
				November 10, 2008	5.36	1073.37	-	14.93	0.07	0.64
				February 17, 2009	-	-	-	-	-	-
				May 11, 2009	4.62	1074.11	-	14.88	0.12	1.09
				August 5, 2009	-	-	-	-	-	-
				November 30, 2009	4.71	1074.02	-	14.88	0.12	1.09
				February 24, 2010	5.22	1073.51	-	14.87	0.13	1.18
				May 17, 2010	4.21	1074.52	-	14.78	0.22	2.00
				November 1, 2010	3.71	1075.02	-	14.86	0.14	1.27
				May 9, 2011	2.96	1075.77	-	14.81	0.19	1.73
				November 7, 2011	4.25	1074.48	-	14.88	0.12	1.09
				May 29, 2012	4.04	1074.69	-	14.88	0.12	1.09
				November 26, 2012	5.24	1073.49	-	14.83	0.17	1.55
				May 6, 2013	3.95	1074.78	-	14.81	0.19	1.73
				November 12, 2013	5.21	1073.52	-	14.78	0.22	2.00
				May 27, 2014	3.57	1075.16	-	14.83	0.17	1.55
				November 17, 2014	-	-	-	-	-	-
				May 19, 2015	4.83	1074.07	-	13.90	1.10	10.00
				November 16, 2015	4.30	1074.60	-	13.90	1.10	10.00
				May 9, 2016	4.88	1074.02	-	13.88	1.12	10.18
				November 15, 2016	5.99	1072.91	-	13.89	1.11	10.09
				May 16, 2017	3.72	1075.18	-	13.87	1.13	10.27
				November 6, 2017	5.81	1073.09	-	13.85	1.15	10.45
				May 14, 2018	4.01	1074.89	-	13.85	1.15	10.45
				November 12, 2018	4.12	1074.78	-	13.86	1.14	10.36
				May 20, 2019	3.65	1075.25	-	13.89	1.11	10.09
				November 4, 2019	3.98	1074.92	-	13.90	1.10	10.00
				June 15, 2020	5.67	1073.23	-	13.89	1.11	10.09
				November 17, 2020	6.26	1072.64	-	13.92	1.08	9.82

See notes on last page

Table 2
Gauging Data
2020 Annual Periodic Review Report
NYSEG
Oneonta, New York

Well ID	Measuring Point Elevation	Actual Depth to Bottom	Screen Length	Date	Depth to Water (feet TOC)	Groundwater Elevation	Depth to Product (feet TOC)	Depth to Bottom (feet TOC)	Accumulated Thickness of Sediments (feet)	Percent Screen Occluded By Sediments (%)
PZ-0802	1081.42	14.30	11.0	April 21, 2008	5.54	1075.88	-	14.44	-0.14	0.00
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	-	-	-	-	-	-
				November 10, 2008	6.73	1074.69	-	14.42	-0.12	0.00
				February 17, 2009	-	-	-	-	-	-
				May 11, 2009	5.78	1075.64	-	14.42	-0.12	0.00
				August 5, 2009	5.73	1075.69	-	14.45	-0.15	0.00
				November 30, 2009	6.11	1075.31	-	14.28	0.02	0.18
				February 24, 2010	6.40	1075.02	-	14.34	-0.04	0.00
				May 17, 2010	5.56	1075.86	-	14.38	-0.08	0.00
				November 1, 2010	5.58	1075.84	-	14.02	0.28	2.55
				May 9, 2011	5.17	1076.25	-	14.20	0.10	0.91
				November 7, 2011	5.75	1075.67	-	13.95	0.35	3.18
				May 29, 2012	5.72	1075.70	-	13.93	0.37	3.36
				November 26, 2012	6.70	1074.72	-	13.95	0.35	3.18
				May 6, 2013	5.83	1075.59	-	13.89	0.41	3.73
				November 12, 2013	6.42	1075.00	-	13.82	0.48	4.36
				May 27, 2014	5.63	1075.79	-	13.83	0.47	4.27
				November 17, 2014	6.42	1075.00	-	13.82	0.48	4.36
				May 19, 2015	6.29	1075.13	-	13.87	0.43	3.91
				November 16, 2015	5.95	1075.47	-	13.81	0.49	4.45
				May 9, 2016	5.32	1076.10	-	13.90	0.40	3.64
				November 15, 2016	7.80	1073.62	-	13.86	0.44	4.00
				May 16, 2017	5.50	1075.92	-	13.91	0.39	3.55
				November 6, 2017	6.09	1075.33	-	13.80	0.50	4.55
				May 14, 2018	4.48	1076.94	-	13.80	0.50	4.55
				November 12, 2018	5.71	1075.71	-	13.94	0.36	3.27
				May 20, 2019	5.45	1075.97	-	13.90	0.40	3.64
				November 4, 2019	5.61	1075.81	-	13.92	0.38	3.45
				June 15, 2020	6.71	1074.71	-	13.92	0.38	3.45
				November 17, 2020	7.22	1074.20	-	13.90	0.40	3.64
PZ-0803	1081.84	21.50	18.0	April 21, 2008	6.35	1075.49	-	21.55	-0.05	0.00
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	-	-	-	-	-	-
				November 10, 2008	7.01	1074.83	-	21.56	-0.06	0.00
				February 17, 2009	-	-	-	-	-	-
				May 11, 2009	6.48	1075.36	-	21.49	0.01	0.06
				August 5, 2009	6.15	1075.69	-	21.58	-0.08	0.00
				November 30, 2009	7.49	1074.35	-	21.49	0.01	0.06
				February 24, 2010	6.70	1075.14	-	21.46	0.04	0.22
				May 17, 2010	6.25	1075.59	-	21.45	0.05	0.28
				November 1, 2010	6.15	1075.69	-	21.51	-0.01	0.00
				May 9, 2011	5.74	1076.10	-	21.50	0.00	0.00
				November 7, 2011	6.30	1075.54	-	21.52	-0.02	0.00
				May 29, 2012	6.19	1075.65	-	21.54	-0.04	0.00
				November 26, 2012	6.92	1074.92	-	21.48	0.02	0.11
				May 6, 2013	6.27	1075.57	-	21.51	-0.01	0.00
				November 12, 2013	6.74	1075.10	-	21.45	0.05	0.28
				May 27, 2014	5.93	1075.91	-	21.46	0.04	0.22
				November 17, 2014	6.62	1075.22	-	21.45	0.05	0.28
				May 19, 2015	6.39	1075.45	-	21.43	0.07	0.39
				November 16, 2015	6.42	1075.42	-	21.46	0.04	0.22
				May 9, 2016	6.39	1075.45	-	21.45	0.05	0.28
				November 15, 2016	7.15	1074.69	-	21.47	0.03	0.17
				May 16, 2017	5.98	1075.86	-	21.46	0.04	0.22
				November 6, 2017	6.82	1075.02	-	21.42	0.08	0.44
				May 14, 2018	6.09	1075.75	-	21.46	0.04	0.22
				November 12, 2018	6.06	1075.78	-	21.43	0.07	0.39
				May 20, 2019	5.76	1076.08	-	21.43	0.07	0.39
				November 4, 2019	6.12	1075.72	-	21.47	0.03	0.17
				June 15, 2020	6.76	1075.08	-	21.45	0.05	0.28
				November 17, 2020	7.02	1074.82	-	21.48	0.02	0.11

See notes on last page

Table 2
Gauging Data
2020 Annual Periodic Review Report
NYSEG
Oneonta, New York

Well ID	Measuring Point Elevation	Actual Depth to Bottom	Screen Length	Date	Depth to Water (feet TOC)	Groundwater Elevation	Depth to Product (feet TOC)	Depth to Bottom (feet TOC)	Accumulated Thickness of Sediments (feet)	Percent Screen Occluded By Sediments (%)
PZ-105*	1077.23	6.10	5.0	April 21, 2008	5.29	1071.94	-	5.68	0.42	6.40
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	-	-	-	-	-	-
				November 10, 2008	-	-	-	5.69	0.41	6.20
				February 17, 2009	-	-	-	-	-	-
				May 11, 2009	4.92	1072.31	-	5.68	0.42	6.40
				August 5, 2009	-	-	-	5.68	0.42	6.40
				November 30, 2009	-	-	-	5.68	0.42	6.40
				February 24, 2010	-	-	-	5.71	0.39	5.80
				May 17, 2010	-	-	-	5.71	0.39	5.80
				November 1, 2010	-	-	-	5.74	0.36	5.20
				May 9, 2011	-	-	-	5.74	0.36	5.20
				November 7, 2011	5.67	1071.56	-	5.72	0.38	5.60
				May 29, 2012	5.03	1072.20	-	5.76	0.34	4.80
				November 26, 2012	-	-	-	5.69	0.41	6.20
				May 6, 2013	4.86	1072.37	-	5.69	0.41	6.20
				November 12, 2013	5.64	1071.59	-	5.71	0.39	5.80
				May 27, 2014	5.28	1071.95	-	5.68	0.42	6.40
				November 17, 2014	-	-	-	6.03	0.07	0.00
				May 19, 2015	-	-	-	5.71	0.39	5.80
				November 16, 2015	5.57	1071.66	-	5.71	0.39	5.80
				May 9, 2016	-	-	-	5.71	0.39	5.80
				November 15, 2016	5.56	1071.67	-	5.71	0.39	5.80
				May 16, 2017	4.85	1072.38	-	5.72	0.38	5.60
				November 6, 2017	-	-	-	5.71	0.39	5.80
				May 14, 2018	5.08	1072.15	-	5.72	0.38	5.60
				November 12, 2018	5.50	1071.73	-	5.72	0.38	5.60
				May 20, 2019	5.10	1072.13	-	5.70	0.40	6.00
				November 4, 2019	5.04	1072.19	-	5.71	0.39	5.80
				June 15, 2020	5.54	1071.69	-	5.70	0.40	6.00
				November 17, 2020	-	-	-	-	-	-
SG-107	1081.96	-	-	April 21, 2008	8.90	1073.06	-	-	-	-
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	-	-	-	-	-	-
				November 10, 2008	7.04	1074.92	-	-	-	-
				February 17, 2009	6.38	1075.58	-	-	-	-
				May 11, 2009	6.59	1075.37	-	-	-	-
				August 5, 2009	6.52	1075.44	-	-	-	-
				November 30, 2009	6.63	1075.33	-	-	-	-
				February 24, 2010	6.82	1075.14	-	-	-	-
				May 17, 2010	6.54	1075.42	-	-	-	-
				November 1, 2010	6.51	1075.45	-	-	-	-
				May 9, 2011	6.60	1075.36	-	-	-	-
				November 7, 2011	6.58	1075.38	-	-	-	-
				May 29, 2012	6.74	1075.22	-	-	-	-
				November 26, 2012	6.82	1075.14	-	-	-	-
				May 6, 2013	6.74	1075.22	-	-	-	-
				November 12, 2013	6.85	1075.11	-	-	-	-
				May 27, 2014	6.68	1075.28	-	-	-	-
				November 17, 2014	6.85	1075.11	-	-	-	-
				May 19, 2015	6.79	1075.17	-	-	-	-
				November 16, 2015	6.81	1075.15	-	-	-	-
				May 9, 2016	6.72	1075.24	-	-	-	-
				November 15, 2016	6.91	1075.05	-	-	-	-
				May 16, 2017	6.66	1075.30	-	-	-	-
				November 6, 2017	6.80	1075.16	-	-	-	-
				May 14, 2018	6.77	1075.19	-	-	-	-
				November 12, 2018	6.33	1075.63	-	-	-	-
				May 20, 2019	6.60	1075.36	-	-	-	-
				November 4, 2019	6.61	1075.35	-	-	-	-
				June 15, 2020	6.83	1075.13	-	-	-	-
				November 17, 2020	7.03	1074.93	-	-	-	-

See notes on last page

Table 2
Gauging Data
2020 Annual Periodic Review Report
NYSEG
Oneonta, New York

Well ID	Measuring Point Elevation	Actual Depth to Bottom	Screen Length	Date	Depth to Water (feet TOC)	Groundwater Elevation	Depth to Product (feet TOC)	Depth to Bottom (feet TOC)	Accumulated Thickness of Sediments (feet)	Percent Screen Occluded By Sediments (%)
SG-105	1079.45	-	-	April 21, 2008	3.96	1075.49	-	-	-	-
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	-	-	-	-	-	-
				November 10, 2008	-	-	-	-	-	-
				February 17, 2009	-	-	-	-	-	-
				May 11, 2009	-	-	-	-	-	-
				August 5, 2009	-	-	-	-	-	-
				November 30, 2009	-	-	-	-	-	-
				February 24, 2010	-	-	-	-	-	-
				May 17, 2010	4.31	1075.14	-	-	-	-
				November 1, 2010	4.39	1075.06	-	-	-	-
				May 9, 2011	4.05	1075.40	-	-	-	-
				November 7, 2011	3.94	1075.51	-	-	-	-
				May 29, 2012	3.29	1076.16	-	-	-	-
				November 26, 2012	3.89	1075.56	-	-	-	-
				May 6, 2013	3.65	1075.80	-	-	-	-
				November 12, 2013	3.86	1075.59	-	-	-	-
				May 27, 2014	4.18	1075.27	-	-	-	-
				November 17, 2014	4.79	1074.66	-	-	-	-
				May 19, 2015	4.19	1075.26	-	-	-	-
				November 16, 2015	4.11	1075.34	-	-	-	-
				May 9, 2016	4.18	1075.27	-	-	-	-
				November 15, 2016	3.86	1075.59	-	-	-	-
				May 16, 2017	3.51	1075.94	-	-	-	-
				November 6, 2017	4.72	1074.73	-	-	-	-
				May 14, 2018	4.24	1075.21	-	-	-	-
				November 12, 2018	4.37	1075.08	-	-	-	-
				May 20, 2019	4.27	1075.18	-	-	-	-
				November 4, 2019	4.37	1075.08	-	-	-	-
				June 15, 2020	4.32	1075.13	-	-	-	-
				November 17, 2020	-	-	-	-	-	-
SG-110	1081.75	-	-	April 21, 2008	4.60	1076.21	-	-	-	-
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	-	-	-	-	-	-
				November 10, 2008	4.49	1076.32	-	-	-	-
				February 17, 2009	4.12	1076.69	-	-	-	-
				May 11, 2009	4.39	1076.42	-	-	-	-
				August 5, 2009	4.40	1076.41	-	-	-	-
				November 30, 2009	-	-	-	-	-	-
				February 24, 2010	-	-	-	-	-	-
				May 17, 2010	5.05	1075.76	-	-	-	-
				November 1, 2010	-	-	-	-	-	-
				May 9, 2011	-	-	-	-	-	-
				November 7, 2011	5.34	-	-	-	-	-
				May 29, 2012	5.41	1076.84	-	-	-	-
				November 26, 2012	-	-	-	-	-	-
				May 6, 2013	5.20	-	-	-	-	-
				November 12, 2013	5.19	-	-	-	-	-
				May 27, 2014	5.19	-	-	-	-	-
				November 17, 2014	5.05	-	-	-	-	-
				May 19, 2015	5.25	1076.50	-	-	-	-
				November 16, 2015	5.44	1076.31	-	-	-	-
				May 9, 2016	5.41	1076.34	-	-	-	-
				November 15, 2016	5.50	1076.25	-	-	-	-
				May 16, 2017	4.95	1076.80	-	-	-	-
				November 6, 2017	5.36	1076.39	-	-	-	-
				May 14, 2018	5.65	1076.10	-	-	-	-
				November 12, 2018	4.90	1076.85	-	-	-	-
				May 20, 2019	5.10	1076.65	-	-	-	-
				November 4, 2019	5.21	1076.54	-	-	-	-
				June 15, 2020	5.67	1076.08	-	-	-	-
				November 17, 2020	5.52	1076.23	-	-	-	-

See notes on last page

Table 2
Gauging Data
2020 Annual Periodic Review Report
NYSEG
Oneonta, New York

Well ID	Measuring Point Elevation	Actual Depth to Bottom	Screen Length	Date	Depth to Water (feet TOC)	Groundwater Elevation	Depth to Product (feet TOC)	Depth to Bottom (feet TOC)	Accumulated Thickness of Sediments (feet)	Percent Screen Occluded By Sediments (%)
SG-111	1078.40	-	-	April 21, 2008	4.22	1074.14	-	-	-	-
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	-	-	-	-	-	-
				November 10, 2008	4.18	1074.18	-	-	-	-
				February 17, 2009	3.80	1074.56	-	-	-	-
				May 11, 2009	3.97	1074.39	-	-	-	-
				August 5, 2009	3.86	1074.50	-	-	-	-
				November 30, 2009	3.89	1074.47	-	-	-	-
				February 24, 2010	-	-	-	-	-	-
				May 17, 2010	3.98	1074.42	-	-	-	-
				November 1, 2010	3.82	1074.58	-	-	-	-
				May 9, 2011	4.09	1074.31	-	-	-	-
				November 7, 2011	4.15	1074.25	-	-	-	-
				May 29, 2012	4.30	1074.10	-	-	-	-
				November 26, 2012	4.42	1073.98	-	-	-	-
				May 6, 2013	4.30	1074.10	-	-	-	-
				November 12, 2013	4.15	1074.25	-	-	-	-
				May 27, 2014	4.28	1074.12	-	-	-	-
				November 17, 2014	4.05	1074.35	-	-	-	-
				May 19, 2015	4.35	1074.05	-	-	-	-
				November 16, 2015	4.42	1073.98	-	-	-	-
				May 9, 2016	4.49	1073.91	-	-	-	-
				November 15, 2016	5.65	1072.75	-	-	-	-
				May 16, 2017	5.45	1072.95	-	-	-	-
				November 6, 2017	5.37	1073.03	-	-	-	-
				May 14, 2018	5.70	1072.70	-	-	-	-
				November 12, 2018	5.45	1072.95	-	-	-	-
				May 20, 2019	5.40	1073.00	-	-	-	-
				Novemebr 4, 2019	5.47	1072.93	-	-	-	-
				June 15, 2020	5.80	1072.60	-	-	-	-
				November 17, 2020	5.71	1072.69	-	-	-	-

See notes on last page

Notes:

1. All measurements from Top of Casing (TOC).
2. "-" Indicates measurement not taken or not available.
3. Elevations in feet above mean sea level (ft amsl), 1929 National Geodetic Vertical Datum (NGVD).
4. NA - indicates NRW not installed at time of gauging event.
5. Staff gauge SG-105 re-installed Apr 2008 and missing on Nov 2008 gauging event.
6. During the Nov 2009 gauging event SG-105 and SG-110 were destroyed.
7. During the Feb 2010 gauging event SG-111 was not accessible.
8. During the May 2010 site activities;
 - SG-110 and SG-105 were replaced and resurveyed at a later date.
 - the riser height for MW-9502S, AW-01, AW-04, AW-08, AW-11 was adjusted and the wells resurveyed May 9, 2011.
 - MW-0203, MW-0301, MW-8806S, MW-8807S, MW-8808S, MW-9110S, AW-03, AW-04, AW-05, AW-14 and AW-16 were redeveloped.
 Depth to bottom measurements for these wells list the depth to bottom recorded after redevelopment.
9. During the May 2011 site activities;
 - SG-105, SG-111, MW-9502S, AW-01, AW-04, AW-08, AW-11 locations and elevations resurveyed May 9, 2011.
 - AW-06, AW-09, AW-AW-14, PMW-07 were redeveloped May 31, 2011. Depth to bottom measurements for these wells list depth to bottom recorded after redevelopment.
10. Staff gauge SG-110 missing during November 2010 and May 2011 gauging events.
11. Staff gauge SG-110 reinstalled during November 2011 site visit and discovered missing before it could be resurveyed.
12. Staff gauge SG-110 reinstalled during May 2012 site visit and resurveyed May 30, 2012.
13. Staff gauge SG-110 reinstalled during November 2012 site visit. Survey information not available for inclusion in this report.
14. * Indicates location was installed with a sump. Refer to well construction log for respective sump length.
15. Calculations of percent screen occluded are based on total screen length installed and do not take into consideration length of saturated screen.
16. Gauging data could not be collected from locations PMW-02 and PZ-0801 November 17, 2014 due to standing surface water at time of gauging.
17. Staff Gauge SG-110, Piezometer PZ-0801, and Performance Monitoring Wells PMW-05 and PMW-06 were resurveyed May 20, 2015.
18. Removed 0.12 feet of riser from PMW-02 after the November 16, 2015 gauging event.
19. Removed 0.10 feet of riser from NRW-02 after the November 16, 2015 gauging event.
20. Gauging data could not be collected on November 6, 2018 from locations PMW-01, PMW-02, PMW-03, PMW-05, PMW-07 and PMW-08 due to standing surface water at time of gauging.
21. Due to standing surface water at the time of the November 6, 2017 gauging event, NRW-04 was gauged November 7, 2017.
22. NRW-03, NRW-04, and NRW-05 were abandoned during the May 2019 Annual Site Visit.
23. MW-8806S could not be located during the November 4, 2019 gauging event and was located and gauged on November 6, 2019.
24. Depth to water measurement recorded at PMW-02 on November 4, 2019 was erroneous and omitted from the gauging table.

Table 3
Groundwater Quality Data
2020 Periodic Review Report
NYSEG
Oneonta, New York

Location ID: Date Collected:	NYSDEC GW Std's & GV's	Units	MW-0201										
			05/29/03	04/22/08	11/11/08	05/12/09	12/02/09	05/20/10	11/02/10	05/10/11	11/08/11	05/30/12	11/29/12
BTEX													
Benzene	1	µg/L	2,500	1,300 D	1,700	930 D	1,900 D	1,200	2,200 DJ	270	1,400 D	850 J	670
Ethylbenzene	5	µg/L	500	550 D	660	290 D	670 D	380	810 DJ	100	640 D	290 J	480
m/p-Xylenes	--	µg/L	NA	100	NA	36	93	26 J	86	6.7 J	83	28	39
o-Xylene	--	µg/L	NA	180 D	NA	87 D	200 D	110	240 D	32	200 D	110	150
Toluene	5	µg/L	28 J	19	18 J	9.9	17	11 J	16	3.3 J	15	9.6 J	9.6 J
Xylenes (total)	5	µg/L	530	NA	310	110 D	290 D	140	350 D	39	280 D	140	190
Total BTEX	--	µg/L	3,558	2,149	2,688 J	1,340	2,877	1,731 J	3,376	412 J	2,335	1,290 J	1,350 J
PAHs													
Acenaphthene	20	µg/L	10 U	0.50 U	0.50 U	0.48 U	0.47 U	0.94 U	0.49 U	4.8 U	4.8 U	4.8 U	4.7 U
Acenaphthylene	--	µg/L	10 U	0.50 U	0.50 U	0.48 U	0.47 U	0.94 U	0.49 U	4.8 U	4.8 U	4.8 U	4.7 U
Anthracene	50	µg/L	10 U	0.50 U	0.50 U	0.48 U	0.47 U	0.94 U	0.49 U	4.8 U	4.8 U	4.8 U	4.7 U
Benzo(a)anthracene	0.002	µg/L	1.0 U	0.50 U	0.50 U	0.48 U	0.47 U	0.94 U	0.49 U	4.8 U	0.34 J	4.8 U	4.7 U
Benzo(a)pyrene	0	µg/L	1.0 U	0.50 U	0.50 U	0.48 U	0.47 U	0.94 U	0.49 U	4.8 U	4.8 U	4.8 U	4.7 U
Benzo(b)fluoranthene	0.002	µg/L	1.0 U	0.50 U	0.50 U	0.48 U	0.47 U	0.94 U	0.49 U	4.8 U	4.8 U	4.8 U	4.7 U
Benzo(g,h,i)perylene	--	µg/L	10 U	0.50 U	0.50 U	0.48 U	0.47 U	0.94 U	0.49 U	4.8 U	4.8 U	4.8 U	4.7 U
Benzo(k)fluoranthene	0.002	ug/L	1 U	0.5 UJ	0.5 U	0.48 U	0.47 U	0.94 U	0.49 U	4.8 U	4.8 U	4.8 U	4.7 U
Chrysene	0.002	µg/L	10 U	0.50 U	0.50 U	0.48 U	0.47 U	0.94 U	0.49 U	4.8 U	4.8 U	4.8 U	4.7 U
Dibenzo(a,h)anthracene	--	ug/L	1 U	0.5 U	0.5 U	0.48 U	0.47 U	0.94 U	0.49 U	4.8 U	4.8 U	4.8 U	4.7 U
Fluoranthene	50	µg/L	10 U	0.50 U	0.50 U	0.48 U	0.47 U	0.94 U	0.49 U	4.8 U	4.8 U	4.8 U	4.7 U
Fluorene	50	µg/L	10 U	0.50 U	0.50 U	0.48 U	0.47 U	0.94 U	0.49 U	4.8 U	4.8 U	4.8 U	4.7 U
Indeno(1,2,3-cd)pyrene	0.002	µg/L	1.0 U	0.50 U	0.50 U	0.48 U	0.47 U	0.94 U	0.49 U	4.8 U	4.8 U	4.8 U	4.7 U
Naphthalene	10	µg/L	7.8 J	460 D	470 D	54	390 D	160	260 D	4.8 U	560 D	270 D	530 D
Phenanthrene	50	µg/L	10 U	0.50 U	0.50 U	0.48 U	0.47 U	0.94 U	0.49 U	4.8 U	4.8 U	4.8 U	4.7 U
Pyrene	50	µg/L	10 U	0.50 U	0.50 U	0.48 U	0.47 U	0.94 U	0.49 U	4.8 U	4.8 U	4.8 U	4.7 U
Total PAHs	--	µg/L	7.8	460 J	470 J	54	390 J	160	260 J	ND	560 J	270 D	530 D

See notes on last page

Table 3
Groundwater Quality Data
2020 Periodic Review Report
NYSEG
Oneonta, New York

Location ID: Date Collected:	NYSDEC GW Std's & GV's	Units	MW-0201										
			05/09/13	11/14/13	05/28/14	11/18/14	05/19/15	11/17/15	05/10/16	11/15/16	05/16/17	11/07/17	05/15/18
BTEX													
Benzene	1	µg/L	690	500	310	430	110	180	190	470	250	120	94
Ethylbenzene	5	µg/L	350	390	180	290	46	91	63	250	91	64	24
m/p-Xylenes	--	µg/L	40	24	13	28	10 U	4.8 J	6.1 J	44	12	3.7	3
o-Xylene	--	µg/L	150	120	79	120	31	68	54	140	75	54	31
Toluene	5	µg/L	11	8.1 J	4.8 J	8.3	5 U	3.2 J	3.3 J	8.2	4.7 J	2.8	1.7
Xylenes (total)	5	µg/L	190	140	92	150	31	73	60	180	87	58	34
Total BTEX	--	µg/L	1,241	1,038 J	587 J	878	187	347 J	316 J	908	433 J	245	154
PAHs													
Acenaphthene	20	µg/L	4.7 U	4.8 U	4.5 U	270 U	4.9 U	4.8 U	4.8 U	4.8 U	5 U	50 U	5 U
Acenaphthylene	--	µg/L	4.7 U	4.8 U	4.5 U	270 U	4.9 U	4.8 U	4.8 U	4.8 U	5 U	50 U	5 U
Anthracene	50	µg/L	4.7 U	4.8 U	4.5 U	270 U	4.9 U	4.8 U	4.8 U	4.8 U	5 U	50 U	5 U
Benzo(a)anthracene	0.002	µg/L	4.7 U	4.8 U	4.5 U	270 U	4.9 U	4.8 U	4.8 U	4.8 U	5 U	50 U	5 U
Benzo(a)pyrene	0	µg/L	4.7 U	4.8 U	4.5 U	270 U	4.9 U	4.8 U	4.8 U	4.8 U	5 U	50 U	5 U
Benzo(b)fluoranthene	0.002	µg/L	4.7 U	4.8 U	4.5 U	270 U	4.9 U	4.8 U	4.8 U	4.8 U	5 U	50 U	5 U
Benzo(g,h,i)perylene	--	µg/L	4.7 U	4.8 U	4.5 U	270 U	4.9 U	4.8 U	4.8 U	4.8 U	5 U	50 U	5 U
Benzo(k)fluoranthene	0.002	ug/L	4.7 U	4.8 U	4.5 U	270 U	4.9 U	4.8 U	4.8 U	4.8 U	5 U	50 U	5 U
Chrysene	0.002	µg/L	4.7 U	4.8 U	4.5 U	270 UJ	4.9 U	4.8 U	4.8 U	4.8 U	5 U	50 U	5 U
Dibenzo(a,h)anthracene	--	ug/L	4.7 U	4.8 U	4.5 U	270 U	4.9 U	4.8 U	4.8 U	4.8 U	5 U	50 U	5 U
Fluoranthene	50	µg/L	4.7 U	4.8 U	4.5 U	270 U	4.9 U	4.8 U	4.8 U	4.8 U	5 U	50 U	5 U
Fluorene	50	µg/L	4.7 U	4.8 U	4.5 U	270 U	4.9 U	4.8 U	4.8 U	4.8 U	5 U	50 U	5 U
Indeno(1,2,3-cd)pyrene	0.002	µg/L	4.7 U	4.8 U	4.5 U	270 UJ	4.9 U	4.8 U	4.8 U	4.8 U	5 U	50 U	5 U
Naphthalene	10	µg/L	390	400 D	230 D	460	4.3 J	280 D	120	580 D	210 D	390	5 U
Phenanthrene	50	µg/L	4.7 U	4.8 U	4.5 U	270 U	4.9 U	4.8 U	4.8 U	4.8 U	5 U	50 U	5 U
Pyrene	50	µg/L	4.7 U	4.8 U	4.5 U	270 U	4.9 U	4.8 U	4.8 U	4.8 U	5 U	50 U	5 U
Total PAHs	--	µg/L	390	400 D	230 D	460	4.3 J	280	120	580	210	390	ND

See notes on last page

Table 3
Groundwater Quality Data
2020 Periodic Review Report
NYSEG
Oneonta, New York

Location ID: Date Collected:	NYSDEC GW Stds & GV's	Units	MW-0201					MW-0203					
			11/13/18	05/21/19	11/05/19	06/16/20	11/18/20	05/29/03	04/23/08	11/11/08	05/12/09	12/01/09	05/18/10
BTEX													
Benzene	1	µg/L	290 D	140	210	92 D	120	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	µg/L	140 D	55	180	60	92	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m/p-Xylenes	--	µg/L	21	8	32	9.7	18	NA	2.0 U	NA	2.0 U	2.0 U	2.0 U
o-Xylene	--	µg/L	99 D	46	94	46	55	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U
Toluene	5	µg/L	10 U	2.5 J	5.3 J	2.4	3	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	5	µg/L	120 D	54	130	56	73	5.0 U	NA	3.0 U	2.0 U	2.0 U	2.0 U
Total BTEX	--	µg/L	550 D	252 J	525 J	210 D	288	ND	ND	ND	ND	ND	ND
PAHs													
Acenaphthene	20	µg/L	5 U	5 U	5 U	110 U	5 U	10 U	0.50 U	0.50 U	0.47 U	0.47 U	0.50 U
Acenaphthylene	--	µg/L	5 U	5 U	5 U	110 U	5 U	10 U	0.50 U	0.50 U	0.47 U	0.47 U	0.50 U
Anthracene	50	µg/L	5 U	5 U	5 U	110 U	5 U	10 U	0.50 U	0.50 U	0.47 U	0.47 U	0.50 U
Benzo(a)anthracene	0.002	µg/L	5 U	5 U	5 U	110 U	5 U	1.0 U	0.50 U	0.50 U	0.47 U	0.47 UB	0.50 U
Benzo(a)pyrene	0	µg/L	5 U	5 U	5 U	110 U	5 U	1.0 U	0.50 U	0.50 U	0.47 U	0.37 J	0.50 U
Benzo(b)fluoranthene	0.002	µg/L	5 U	5 U	5 U	110 U	5 U	1.0 U	0.50 U	0.50 U	0.47 U	0.47 U	0.50 U
Benzo(g,h,i)perylene	--	µg/L	5 U	5 U	5 U	110 U	5 U	10 U	0.50 U	0.50 U	0.47 U	0.24 J	0.50 U
Benzo(k)fluoranthene	0.002	ug/L	5 U	5 U	5 U	110 U	5 U	1 U	0.5 UJ	0.5 U	0.47 U	0.47 U	0.5 U
Chrysene	0.002	µg/L	5 U	5 U	5 U	110 U	5 U	10 U	0.50 U	0.50 U	0.47 U	0.47 UB	0.50 U
Dibenzo(a,h)anthracene	--	ug/L	5 U	5 U	5 U	110 U	5 U	1 U	0.5 U	0.5 U	0.47 U	0.47 U	0.5 U
Fluoranthene	50	µg/L	5 U	5 U	5 U	110 U	5 U	10 U	0.50 U	0.50 U	0.47 U	0.47 U	0.50 U
Fluorene	50	µg/L	5 U	5 U	5 U	110 U	5 U	10 U	0.50 U	0.50 U	0.47 U	0.47 U	0.50 U
Indeno(1,2,3-cd)pyrene	0.002	µg/L	5 U	5 U	5 U	110 U	5 U	1.0 U	0.50 U	0.50 U	0.47 U	0.47 U	0.50 U
Naphthalene	10	µg/L	360 D	5 U	380 D	110 U	0.9 J	10 U	0.50 U	0.50 U	0.47 U	0.47 U	0.50 U
Phenanthrene	50	µg/L	5 U	5 U	5 U	110 U	5 U	10 U	0.50 U	0.50 U	0.47 U	0.47 U	0.50 U
Pyrene	50	µg/L	5 U	5 U	5 U	110 U	5 U	10 U	0.50 U	0.50 U	0.47 U	0.47 U	0.50 U
Total PAHs	--	µg/L	360 D	ND	380 D	ND	0.9 J	ND	ND	ND	ND	0.61 J	ND

See notes on last page

Table 3
Groundwater Quality Data
2020 Periodic Review Report
NYSEG
Oneonta, New York

Location ID: Date Collected:	NYSDEC GW Stds & GVs	Units	MW-0203										
			11/02/10	11/02/10	05/10/11	11/08/11	05/31/12	11/29/12	05/10/13	11/14/13	05/29/14	11/18/14	05/19/15
BTEX													
Benzene	1	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	5	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.9 J	1 U	1 U	1 U	1 U	1 U
m/p-Xylenes	--	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.72 J	2 U	2 U	2 U	2 U	2 U
o-Xylene	--	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	5	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes (total)	5	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.72 J	2 U	2 U	2 U	2 U	2 U
Total BTEX	--	µg/L	ND	ND	ND	ND	ND	1.62 J	ND	ND	ND	ND	ND
PAHs													
Acenaphthene	20	µg/L	0.48 U	0.48 U	4.8 U	4.7 U	4.7 U	4.7 U	4.8 U	5.2 U	4.6 U	4.8 U	5 U
Acenaphthylene	--	µg/L	0.48 U	0.48 U	4.8 U	4.7 U	4.7 U	4.7 U	4.8 U	5.2 U	4.6 U	4.8 U	5 U
Anthracene	50	µg/L	0.48 U	0.48 U	4.8 U	4.7 U	4.7 U	4.7 U	4.8 U	5.2 U	4.6 U	4.8 U	5 U
Benzo(a)anthracene	0.002	µg/L	0.48 U	0.48 U	4.8 U	4.7 U	4.7 U	4.7 U	4.8 U	5.2 U	4.6 U	4.8 U	5 U
Benzo(a)pyrene	0	µg/L	0.48 U	0.48 U	4.8 U	4.7 U	4.7 U	4.7 U	4.8 U	5.2 U	4.6 U	4.8 U	5 U
Benzo(b)fluoranthene	0.002	µg/L	0.48 U	0.48 U	4.8 U	4.7 U	4.7 U	4.7 U	4.8 U	5.2 U	4.6 U	4.8 U	5 U
Benzo(g,h,i)perylene	--	µg/L	0.48 U	0.48 U	4.8 U	4.7 U	4.7 U	4.7 U	4.8 U	5.2 U	4.6 U	4.8 U	5 U
Benzo(k)fluoranthene	0.002	ug/L	0.48 U	0.48 U	4.8 U	4.7 U	4.7 U	4.7 U	4.8 U	5.2 U	4.6 U	4.8 U	5 U
Chrysene	0.002	µg/L	0.48 U	0.48 U	4.8 U	4.7 U	4.7 U	4.7 U	4.8 U	5.2 U	4.6 U	4.8 UJ	5 U
Dibenzo(a,h)anthracene	--	ug/L	0.48 U	0.48 U	4.8 U	4.7 U	4.7 U	4.7 U	4.8 U	5.2 U	4.6 U	4.8 U	5 U
Fluoranthene	50	µg/L	0.48 U	0.48 U	4.8 U	4.7 U	4.7 U	4.7 U	4.8 U	5.2 U	4.6 U	4.8 U	5 U
Fluorene	50	µg/L	0.48 U	0.48 U	4.8 U	4.7 U	4.7 U	4.7 U	4.8 U	5.2 U	4.6 U	4.8 U	5 U
Indeno(1,2,3-cd)pyrene	0.002	µg/L	0.48 U	0.48 U	4.8 U	4.7 U	4.7 U	4.7 U	4.8 U	5.2 U	4.6 U	4.8 UJ	5 U
Naphthalene	10	µg/L	0.48 U	0.48 U	4.8 U	4.7 U	4.7 U	1.4 J	4.8 U	5.2 U	4.6 U	4.8 U	5 U
Phenanthrene	50	µg/L	0.48 U	0.48 U	4.8 U	4.7 U	4.7 U	4.7 U	4.8 U	5.2 U	4.6 U	4.8 U	5 U
Pyrene	50	µg/L	0.48 U	0.48 U	4.8 U	4.7 U	4.7 U	4.7 U	4.8 U	5.2 U	4.6 U	4.8 U	5 U
Total PAHs	--	µg/L	ND	ND	ND	ND	ND	1.4 J	ND	ND	ND	ND	ND

See notes on last page

Table 3
Groundwater Quality Data
2020 Periodic Review Report
NYSEG
Oneonta, New York

Location ID: Date Collected:	NYSDEC GW Stds & GVs	Units	MW-0203										
			11/18/15	05/10/16	11/15/16	05/17/17	11/07/17	05/15/18	11/13/18	05/21/19	11/05/19	06/16/20	11/18/20
BTEX													
Benzene	1	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	5	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
m/p-Xylenes	--	µg/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
o-Xylene	--	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	5	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes (total)	5	µg/L	2 U	2 U	2 U	2 U	3 U	2 U	2 U	2 U	2 U	2 U	2 U
Total BTEX	--	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PAHs													
Acenaphthene	20	µg/L	4.8 U	4.8 U	4.6 U	5 U	5 U	5 U	5 U	5 U	5 U	5.4 U	5 U
Acenaphthylene	--	µg/L	4.8 U	4.8 U	4.6 U	5 U	5 U	5 U	5 U	5 U	5 U	5.4 U	5 U
Anthracene	50	µg/L	4.8 U	4.8 U	4.6 U	5 U	5 U	5 U	5 U	5 U	5 U	5.4 U	5 U
Benzo(a)anthracene	0.002	µg/L	4.8 U	4.8 U	4.6 U	5 U	5 U	5 U	5 U	5 U	5 U	5.4 U	5 U
Benzo(a)pyrene	0	µg/L	4.8 U	4.8 U	4.6 U	5 U	5 U	5 U	5 U	5 U	5 U	5.4 U	5 U
Benzo(b)fluoranthene	0.002	µg/L	4.8 U	4.8 U	4.6 U	5 U	5 U	5 U	5 U	5 U	5 U	5.4 U	5 U
Benzo(g,h,i)perylene	--	µg/L	4.8 U	4.8 U	4.6 U	5 U	5 U	5 U	5 U	5 U	5 U	5.4 U	5 U
Benzo(k)fluoranthene	0.002	ug/L	4.8 U	4.8 U	4.6 U	5 U	5 U	5 U	5 U	5 U	5 U	5.4 U	5 U
Chrysene	0.002	µg/L	4.8 U	4.8 U	4.6 U	5 U	5 U	5 U	5 U	5 U	5 U	5.4 U	5 U
Dibenzo(a,h)anthracene	--	ug/L	4.8 U	4.8 U	4.6 U	5 U	5 U	5 U	5 U	5 U	5 U	5.4 U	5 U
Fluoranthene	50	µg/L	4.8 U	4.8 U	4.6 U	5 U	5 U	5 U	5 U	5 U	5 U	5.4 U	5 U
Fluorene	50	µg/L	4.8 U	4.8 U	4.6 U	5 U	5 U	5 U	5 U	5 U	5 U	5.4 U	5 U
Indeno(1,2,3-cd)pyrene	0.002	µg/L	4.8 U	4.8 U	4.6 U	5 U	5 U	5 U	5 U	5 U	5 U	5.4 U	5 U
Naphthalene	10	µg/L	4.8 U	4.8 U	4.6 U	5 U	5 U	5 U	5 U	5 U	5 U	5.4 U	1.1 J
Phenanthrene	50	µg/L	4.8 U	4.8 U	4.6 U	5 U	5 U	5 U	5 U	5 U	5 U	5.4 UB	5 U
Pyrene	50	µg/L	4.8 U	4.8 U	4.6 U	5 U	5 U	5 U	5 U	5 U	5 U	5.4 U	5 U
Total PAHs	--	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.1 J

See notes on last page

Table 3
Groundwater Quality Data
2020 Periodic Review Report
NYSEG
Oneonta, New York

Location ID: Date Collected:	NYSDEC GW Std's & GV's	Units	MW-0301										
			05/29/03	04/22/08	11/12/08	05/12/09	12/01/09	05/18/10	11/02/10	05/10/11	11/08/11	05/30/12	11/29/12
BTEX													
Benzene	1	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U
Ethylbenzene	5	µg/L	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U
m/p-Xylenes	--	µg/L	NA	2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2 U
o-Xylene	--	µg/L	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U
Toluene	5	µg/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U
Xylenes (total)	5	µg/L	5.0 U	NA	3.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2 U
Total BTEX	--	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PAHs													
Acenaphthene	20	µg/L	10 U	0.50 U	0.50 U	0.48 U	0.48 U	0.52 U	0.47 U	4.7 U	4.8 U	4.7 U	4.8 U
Acenaphthylene	--	µg/L	10 U	0.50 U	0.50 U	0.48 U	0.48 U	0.52 U	0.47 U	4.7 U	4.8 U	4.7 U	4.8 U
Anthracene	50	µg/L	10 U	0.50 U	0.50 U	0.48 U	0.48 U	0.52 U	0.47 U	4.7 U	4.8 U	4.7 U	4.8 U
Benzo(a)anthracene	0.002	µg/L	1.0 U	0.50 U	0.50 U	0.48 U	0.48 U	0.52 U	0.47 U	4.7 U	4.8 U	4.7 U	4.8 U
Benzo(a)pyrene	0	µg/L	1.0 U	0.50 U	0.50 U	0.48 U	0.48 U	0.52 U	0.47 U	4.7 U	4.8 U	4.7 U	4.8 U
Benzo(b)fluoranthene	0.002	µg/L	1.0 U	0.50 U	0.50 U	0.48 U	0.48 U	0.52 U	0.47 U	4.7 U	4.8 U	4.7 U	4.8 U
Benzo(g,h,i)perylene	--	µg/L	10 U	0.50 U	0.50 U	0.48 U	0.48 U	0.52 U	0.47 U	4.7 U	4.8 U	4.7 U	4.8 U
Benzo(k)fluoranthene	0.002	ug/L	1 U	0.5 UJ	0.5 U	0.48 U	0.48 U	0.52 U	0.47 U	4.7 U	4.8 U	4.7 U	4.8 U
Chrysene	0.002	µg/L	10 U	0.50 U	0.50 U	0.48 U	0.48 U	0.52 U	0.47 U	4.7 U	4.8 U	4.7 U	4.8 U
Dibenzo(a,h)anthracene	--	ug/L	1 U	0.5 U	0.5 U	0.48 U	0.48 U	0.52 U	0.47 U	4.7 U	4.8 U	4.7 U	4.8 U
Fluoranthene	50	µg/L	10 U	0.50 U	0.50 U	0.48 U	0.48 U	0.52 U	0.47 U	4.7 U	4.8 U	4.7 U	4.8 U
Fluorene	50	µg/L	10 U	0.50 U	0.50 U	0.48 U	0.48 U	0.52 U	0.47 U	4.7 U	4.8 U	4.7 U	4.8 U
Indeno(1,2,3-cd)pyrene	0.002	µg/L	1.0 U	0.50 U	0.50 U	0.48 U	0.48 U	0.52 U	0.47 U	4.7 U	4.8 U	4.7 U	4.8 U
Naphthalene	10	µg/L	10 U	0.50 U	0.50 U	0.48 U	0.48 U	0.52 U	0.47 U	4.7 U	4.8 U	4.7 U	4.8 U
Phenanthrene	50	µg/L	10 U	0.50 U	0.50 U	0.48 U	0.48 U	0.52 U	0.47 U	4.7 U	4.8 U	4.7 U	4.8 U
Pyrene	50	µg/L	10 U	0.50 U	0.50 U	0.48 U	0.48 U	0.52 U	0.47 U	4.7 U	4.8 U	4.7 U	4.8 U
Total PAHs	--	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

See notes on last page

Table 3
Groundwater Quality Data
2020 Periodic Review Report
NYSEG
Oneonta, New York

Location ID: Date Collected:	NYSDEC GW Stds & GV's	Units	MW-0301			MW-8604S							
			05/09/13	11/15/13	05/29/14	05/23/03	04/22/08	11/11/08	05/13/09	12/01/09	05/20/10	11/03/10	05/11/11
BTEX													
Benzene	1	µg/L	1 U	1 U	1 U	360	22	33	43	24	20	31	14
Ethylbenzene	5	µg/L	1 U	1 U	1 U	230	31	35	62	35	21	18	1.0 U
m/p-Xylenes	--	µg/L	2 U	2 U	2 U	NA	1.9 J	NA	6.8	2.8	2.3	2.0	2.0 U
o-Xylene	--	µg/L	1 U	1 U	1 U	NA	9.3	NA	17	11	10	5.2	0.83 J
Toluene	5	µg/L	1 U	1 U	1 U	3.7 J	0.55 J	0.78 J	1.4	0.86 J	0.87 J	1.0 U	1.0 U
Xylenes (total)	5	µg/L	2 U	2 U	2 U	32	NA	10	24	14	13	7.1	0.83 J
Total BTEX	--	µg/L	ND	ND	ND	626 J	54 J	79 J	130	74 J	55 J	56	15 J
PAHs													
Acenaphthene	20	µg/L	4.7 U	4.7 U	5.1 U	3.3 J	9.0	41	22	24	4.0 J	20	2.3 J
Acenaphthylene	--	µg/L	4.7 U	4.7 U	5.1 U	0.80 J	0.80	2.0	1.2	0.81	0.21 J	0.44 J	4.8 U
Anthracene	50	µg/L	4.7 U	4.7 U	5.1 U	10 U	0.50 U	1.0	0.47 U	0.31 J	0.50 U	0.22 J	4.8 U
Benzo(a)anthracene	0.002	µg/L	4.7 U	4.7 U	5.1 U	1.0 U	0.50 U	0.50 U	0.47 U	0.47 UB	0.50 U	0.47 U	4.8 U
Benzo(a)pyrene	0	µg/L	4.7 U	4.7 UJ	5.1 U	1.0 U	0.50 U	0.50 U	0.47 U	0.47 U	0.50 U	0.47 U	4.8 U
Benzo(b)fluoranthene	0.002	µg/L	4.7 U	4.7 UJ	5.1 U	1.0 U	0.50 U	0.50 U	0.47 U	0.47 U	0.50 U	0.47 U	4.8 U
Benzo(g,h,i)perylene	--	µg/L	4.7 U	4.7 UJ	5.1 U	10 U	0.50 U	0.50 U	0.47 U	0.47 U	0.50 U	0.47 U	4.8 U
Benzo(k)fluoranthene	0.002	ug/L	4.7 U	4.7 UJ	5.1 U	1 U	0.5 UJ	0.5 U	0.47 U	0.47 U	0.5 U	0.47 U	4.8 U
Chrysene	0.002	µg/L	4.7 U	NA	NA	10 U	0.50 U	0.50 U	0.47 U	0.47 UB	0.50 U	0.47 U	4.8 U
Dibenzo(a,h)anthracene	--	ug/L	4.7 U	4.7 UJ	5.1 U	1 U	0.5 U	0.5 U	0.47 U	0.47 U	0.5 U	0.47 U	4.8 U
Fluoranthene	50	µg/L	4.7 U	4.7 U	5.1 U	10 U	0.50 U	0.90	0.47 U	0.24 J	0.50 U	0.18 J	4.8 U
Fluorene	50	µg/L	4.7 U	4.7 U	5.1 U	2.0 J	2.0	7.0	3.9	3.6	0.61	3.4	4.8 U
Indeno(1,2,3-cd)pyrene	0.002	µg/L	4.7 U	4.7 UJ	5.1 U	1.0 U	0.50 U	0.50 U	0.47 U	0.47 U	0.50 U	0.47 U	4.8 U
Naphthalene	10	µg/L	4.7 U	4.7 U	5.1 U	53	14	34	33	32 J	7.2 J	24	1.6 J
Phenanthrene	50	µg/L	4.7 U	4.7 U	5.1 U	0.70 J	0.40 J	5.0	1.3	1.7	0.22 J	1.6	4.8 U
Pyrene	50	µg/L	4.7 U	4.7 U	5.1 U	10 U	0.50 U	0.70	0.47 U	0.19 J	0.50 U	0.14 J	4.8 U
Total PAHs	--	µg/L	ND	ND	ND	60 J	26 J	92 J	62 J	63 J	12 J	50 J	3.9 J

See notes on last page

Table 3
Groundwater Quality Data
2020 Periodic Review Report
NYSEG
Oneonta, New York

Location ID: Date Collected:	NYSDEC GW Stds & GVs	Units	MW-8604S										
			11/08/11	05/31/12	11/30/12	05/10/13	11/14/13	05/29/14	11/19/14	05/21/15	11/17/15	05/10/16	11/15/16
BTEX													
Benzene	1	µg/L	3.2	5.8	0.67 J	2.5	0.72 J	3.9	2.1	2.2	2.1	2.6	3.1
Ethylbenzene	5	µg/L	1.1	1.7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5.5	1 U
m/p-Xylenes	--	µg/L	2.0 U	2.0 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.7 J	2 U
o-Xylene	--	µg/L	2.0	1.9	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2.4	1 U
Toluene	5	µg/L	1.0 U	1.0 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes (total)	5	µg/L	2.0	1.9 J	2 U	2 U	2 U	2 U	2 U	2 U	2 U	3.1	2 U
Total BTEX	--	µg/L	6.3	9.4 J	0.67 J	2.5	0.72 J	3.9	2.1	2.2	2.1	11.2	3.1
PAHs													
Acenaphthene	20	µg/L	7.9	7.3	7.9	1.5 J	16	6.1	14	8.8	11	3.7 J	12
Acenaphthylene	--	µg/L	0.52 J	4.7 U	1.2 J	4.7 U	2 J	0.42 J	1.8 J	0.73 J	1 J	0.49 J	0.75 J
Anthracene	50	µg/L	4.7 U	4.7 U	4.8 U	4.7 U	4.7 U	4.9 U	4.8 U	5.1 U	4.7 U	5 U	4.8 U
Benzo(a)anthracene	0.002	µg/L	4.7 U	4.7 U	4.8 U	4.7 U	4.7 U	4.9 U	4.8 U	5.1 U	4.7 U	5 U	4.8 U
Benzo(a)pyrene	0	µg/L	4.7 U	4.7 U	4.8 U	4.7 U	4.7 U	4.9 U	4.8 U	5.1 U	4.7 U	5 U	4.8 U
Benzo(b)fluoranthene	0.002	µg/L	4.7 U	4.7 U	4.8 U	4.7 U	4.7 U	4.9 U	4.8 U	5.1 U	4.7 U	5 U	4.8 U
Benzo(g,h,i)perylene	--	µg/L	4.7 U	4.7 U	4.8 U	4.7 U	4.7 U	4.9 U	4.8 U	5.1 U	4.7 U	5 UJ	4.8 U
Benzo(k)fluoranthene	0.002	ug/L	4.7 U	4.7 U	4.8 U	4.7 U	4.7 U	4.9 U	4.8 U	5.1 U	4.7 U	5 U	4.8 U
Chrysene	0.002	µg/L	4.7 U	4.7 U	4.8 U	4.7 U	4.7 U	4.9 U	4.8 UJ	5.1 U	4.7 U	5 U	4.8 U
Dibenzo(a,h)anthracene	--	ug/L	4.7 U	4.7 U	4.8 U	4.7 U	4.7 U	4.9 U	4.8 U	5.1 U	4.7 U	5 U	4.8 U
Fluoranthene	50	µg/L	4.7 U	4.7 U	4.8 U	4.7 U	0.45 J	4.9 U	0.39 J	5.1 U	4.7 U	5 U	0.6 J
Fluorene	50	µg/L	1.3 J	1.4 J	1.5 J	4.7 U	2.4 J	1.2 J	2.3 J	1.6 J	2.1 J	0.99 J	1.4 J
Indeno(1,2,3-cd)pyrene	0.002	µg/L	4.7 U	4.7 U	4.8 U	4.7 U	4.7 U	4.9 U	4.8 UJ	5.1 U	4.7 U	5 UJ	4.8 U
Naphthalene	10	µg/L	3.6 J	4.7 U	4.8 U	4.7 U	4.7 U	4.9 U	4.8 U	5.1 U	4.7 U	2.6 J	4.8 U
Phenanthrene	50	µg/L	0.61 J	0.63 J	4.8 U	4.7 U	4.7 U	4.9 U	4.8 U	5.1 U	4.7 U	5 U	4.8 U
Pyrene	50	µg/L	4.7 U	4.7 U	0.34 J	4.7 U	0.42 J	4.9 U	0.34 J	5.1 U	4.7 U	5 U	0.54 J
Total PAHs	--	µg/L	14 J	9.3 J	11 J	1.5 J	21.3 J	7.72 J	18.8 J	11.1 J	14.1 J	7.78 J	15.3 J

See notes on last page

Table 3
Groundwater Quality Data
2020 Periodic Review Report
NYSEG
Oneonta, New York

Location ID: Date Collected:	NYSDEC GW Std's & GV's	Units	MW-8604S								MW-8806S		
			05/16/17	11/08/17	05/15/18	11/13/18	05/21/19	11/06/19	06/16/20	11/18/20	05/23/03	04/23/08	11/12/08
BTEX													
Benzene	1	µg/L	1.6	1.6	1.1	2.4	0.8 J	1 U	1.3	1 U	580	1.0 U	150 D
Ethylbenzene	5	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1.8 J	1.0 U	26
m/p-Xylenes	--	µg/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	NA	2.0 U	NA
o-Xylene	--	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1.0 U	NA
Toluene	5	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2.1 J	1.0 U	4.4
Xylenes (total)	5	µg/L	2 U	3 U	2 U	2 U	2 U	2 U	2 U	2 U	74	NA	52
Total BTEX	--	µg/L	1.6	1.6	1.1	2.4	0.8 J	ND	1.3	ND	658	ND	232
PAHs													
Acenaphthene	20	µg/L	5.3	15	5.5	7.6	3.2 J	5 U	11	3.6 J	2.8	0.50 U	10
Acenaphthylene	--	µg/L	5 U	1.4 J	0.5 J	1.1 J	5 U	0.4 J	0.78 J	0.6 J	1.6 J	0.50 U	0.90
Anthracene	50	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	0.50 U	0.50 U
Benzo(a)anthracene	0.002	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1.0 U	0.50 U	0.50 U
Benzo(a)pyrene	0	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1.0 U	0.50 U	0.50 U
Benzo(b)fluoranthene	0.002	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1.0 U	0.50 U	0.50 U
Benzo(g,h,i)perylene	--	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	0.50 U	0.50 U
Benzo(k)fluoranthene	0.002	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	0.5 UJ	0.5 U
Chrysene	0.002	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	0.50 U	0.50 U
Dibenzo(a,h)anthracene	--	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	0.5 U	0.5 U
Fluoranthene	50	µg/L	5 U	0.66 J	5 U	0.52 J	5 U	5 U	0.45 J	0.55 J	10 U	0.50 U	0.50 U
Fluorene	50	µg/L	1.1 J	1.7 J	0.97 J	0.92 J	0.44 J	5 U	1.6 J	5 U	0.20 J	0.50 U	0.30 J
Indeno(1,2,3-cd)pyrene	0.002	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1.0 U	0.50 U	0.50 U
Naphthalene	10	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	3.1 J	5 U	130	0.50 U	7.0
Phenanthrene	50	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 UB	5 U	0.40 J	0.50 U	0.60
Pyrene	50	µg/L	5 U	0.62 J	5 U	0.46 J	5 U	0.56 J	5 U	0.57 J	10 U	0.50 U	0.50 U
Total PAHs	--	µg/L	6.4 J	19.4 J	7.0 J	10.6 J	3.64 J	0.96 J	16.9 J	5.32 J	140 J	ND	19 J

See notes on last page

Table 3
Groundwater Quality Data
2020 Periodic Review Report
NYSEG
Oneonta, New York

Location ID: Date Collected:	NYSDEC GW Stds & GVs	Units	MW-8806S										
			05/12/09	12/01/09	05/18/10	11/02/10	05/10/11	11/09/11	05/31/12	11/28/12	05/08/13	11/15/13	05/28/14
BTEX													
Benzene	1	µg/L	1.0 U	14	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.5 J	1 U	810 DJ	1 U
Ethylbenzene	5	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4	1 U	200 D	1 U
m/p-Xylenes	--	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.92 J	2 U	100	2 U
o-Xylene	--	µg/L	1.0 U	1.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.3	1 U	220 D	1 U
Toluene	5	µg/L	1.0 U	0.52 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	18	1 U
Xylenes (total)	5	µg/L	2.0 U	2.0	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.2	2 U	310 D	2 U
Total BTEX	--	µg/L	ND	17 J	ND	ND	ND	ND	ND	11 J	ND	1,338 J	ND
PAHs													
Acenaphthene	20	µg/L	0.48 U	0.47 U	0.48 U	0.47 U	4.8 U	4.8 U	5.2 U	1.2 J	4.8 U	36	4.5 U
Acenaphthylene	--	µg/L	0.48 U	0.47 U	0.48 U	0.47 U	4.8 U	4.8 U	5.2 U	4.8 U	4.8 U	3.3 J	4.5 U
Anthracene	50	µg/L	0.48 U	0.47 U	0.48 U	0.47 U	4.8 U	4.8 U	5.2 U	4.8 U	4.8 U	0.44 J	4.5 U
Benzo(a)anthracene	0.002	µg/L	0.48 U	0.47 U	0.48 U	0.37 J	4.8 U	4.8 U	5.2 U	4.8 U	4.8 U	4.7 U	4.5 U
Benzo(a)pyrene	0	µg/L	0.48 U	0.47 U	0.48 U	0.38 J	4.8 U	4.8 U	5.2 U	4.8 U	4.8 U	4.7 UJ	4.5 U
Benzo(b)fluoranthene	0.002	µg/L	0.48 U	0.47 U	0.48 U	0.32 J	4.8 U	4.8 U	5.2 U	4.8 U	4.8 U	4.7 UJ	4.5 U
Benzo(g,h,i)perylene	--	µg/L	0.48 U	0.47 U	0.48 U	0.47 U	4.8 U	4.8 U	5.2 U	4.8 U	4.8 U	4.7 UJ	4.5 U
Benzo(k)fluoranthene	0.002	ug/L	0.48 U	0.47 U	0.48 U	0.47 U	4.8 U	4.8 U	5.2 U	4.8 U	4.8 U	4.7 UJ	4.5 U
Chrysene	0.002	µg/L	0.48 U	0.47 U	0.48 U	0.24 J	4.8 U	4.8 U	5.2 U	4.8 U	4.8 U	4.7 U	4.5 U
Dibenzo(a,h)anthracene	--	ug/L	0.48 U	0.47 U	0.48 U	0.47 U	4.8 U	4.8 U	5.2 U	4.8 U	4.8 U	4.7 UJ	4.5 U
Fluoranthene	50	µg/L	0.48 U	0.47 U	0.48 U	0.31 J	4.8 U	4.8 U	5.2 U	4.8 U	4.8 U	4.7 U	4.5 U
Fluorene	50	µg/L	0.48 U	0.47 U	0.48 U	0.47 U	4.8 U	4.8 U	5.2 U	4.8 U	4.8 U	2.3 J	4.5 U
Indeno(1,2,3-cd)pyrene	0.002	µg/L	0.48 U	0.47 U	0.48 U	0.12 J	4.8 U	4.8 U	5.2 U	4.8 U	4.8 U	4.7 UJ	4.5 U
Naphthalene	10	µg/L	0.48 U	2.0	0.48 U	0.47 U	4.8 U	4.8 U	5.2 U	9.9	4.8 U	1,400 DJ	4.5 U
Phenanthrene	50	µg/L	0.48 U	0.47 U	0.48 U	0.47 U	4.8 U	4.8 U	5.2 U	4.8 U	4.8 U	2.3 J	4.5 U
Pyrene	50	µg/L	0.48 U	0.47 U	0.48 U	0.30 J	4.8 U	4.8 U	5.2 U	4.8 U	4.8 U	0.43 J	4.5 U
Total PAHs	--	µg/L	ND	2.0	ND	2.0 J	ND	ND	ND	11 J	ND	1,445 J	ND

See notes on last page

Table 3
Groundwater Quality Data
2020 Periodic Review Report
NYSEG
Oneonta, New York

Location ID: Date Collected:	NYSDEC GW Stds & GV's	Units	MW-8806S										
			11/19/14	05/19/15	11/17/15	05/11/16	11/16/16	05/17/17	11/07/17	05/15/18	11/13/18	05/22/19	11/06/19
BTEX													
Benzene	1	µg/L	120 D	1 U	1 U	1 U	100	1 U	24	1 U	1 U	1 U	1 U
Ethylbenzene	5	µg/L	49	1 U	1 U	1 U	31	1 U	1 U	1 U	1 U	1 U	1 U
m/p-Xylenes	--	µg/L	28	2 U	2 U	2 U	7.7	2 U	2 U	2 U	2 U	2 U	2 U
o-Xylene	--	µg/L	49	1 U	1 U	1 U	19	1 U	5.5	1 U	1 U	1 U	1 U
Toluene	5	µg/L	8.1	1 U	1 U	1 U	2.6	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes (total)	5	µg/L	77	2 U	2 U	2 U	27	2 U	5.5	2 U	2 U	2 U	2 U
Total BTEX	--	µg/L	254	ND	ND	ND	161	ND	29.5	ND	ND	ND	ND
PAHs													
Acenaphthene	20	µg/L	250 U	4.6 U	5.1 U	4.8 U	4.9	5 U	1.7 J	5 U	5 U	5 U	5 U
Acenaphthylene	--	µg/L	250 U	4.6 U	5.1 U	4.8 U	0.42 J	5 U	5 U	5 U	5 U	5 U	5 U
Anthracene	50	µg/L	250 U	4.6 U	5.1 U	4.8 U	4.8 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzo(a)anthracene	0.002	µg/L	250 U	4.6 U	5.1 U	4.8 U	4.8 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzo(a)pyrene	0	µg/L	250 U	4.6 U	5.1 U	4.8 U	4.8 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzo(b)fluoranthene	0.002	µg/L	250 U	4.6 U	5.1 U	4.8 U	4.8 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzo(g,h,i)perylene	--	µg/L	250 U	4.6 U	5.1 U	4.8 U	4.8 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzo(k)fluoranthene	0.002	ug/L	250 U	4.6 U	5.1 U	4.8 U	4.8 U	5 U	5 U	5 U	5 U	5 U	5 U
Chrysene	0.002	µg/L	250 UJ	4.6 U	5.1 U	4.8 U	4.8 U	5 U	5 U	5 U	5 U	5 U	5 U
Dibenzo(a,h)anthracene	--	ug/L	250 U	4.6 U	5.1 U	4.8 U	4.8 U	5 U	5 U	5 U	5 U	5 U	5 U
Fluoranthene	50	µg/L	250 U	4.6 U	5.1 U	4.8 U	4.8 U	5 U	5 U	5 U	5 U	5 U	5 U
Fluorene	50	µg/L	250 U	4.6 U	5.1 U	4.8 U	4.8 U	5 U	5 U	5 U	5 U	5 U	5 U
Indeno(1,2,3-cd)pyrene	0.002	µg/L	250 UJ	4.6 U	5.1 U	4.8 U	4.8 U	5 U	5 U	5 U	5 U	5 U	5 U
Naphthalene	10	µg/L	260	4.6 U	5.1 U	4.8 U	73 D	5 U	15	5 U	5 U	5 U	5 U
Phenanthrene	50	µg/L	250 U	4.6 U	5.1 U	4.8 U	4.8 U	5 U	5 U	5 U	5 U	5 U	5 U
Pyrene	50	µg/L	250 U	4.6 U	5.1 U	4.8 U	4.8 U	5 U	5 U	5 U	5 U	5 U	5 U
Total PAHs	--	µg/L	260	ND	ND	ND	78.3 J	ND	16.7 J	ND	ND	ND	ND

See notes on last page

Table 3
Groundwater Quality Data
2020 Periodic Review Report
NYSEG
Oneonta, New York

Location ID: Date Collected:	NYSDEC GW Stds & GV's	Units	MW-8806S		MW-8807S								
			06/16/20	11/18/20	05/28/03	04/22/08	11/11/08	05/12/09	12/02/09	05/18/10	11/02/10	05/10/11	11/08/11
BTEX													
Benzene	1	µg/L	0.60 J	23	96	1.0 U	1.0 U	1.0 U	1.0 U	8.5	1.0 U	1.0 U	16
Ethylbenzene	5	µg/L	1 U	13	24	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m/p-Xylenes	--	µg/L	2 U	1.4 J	NA	2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	--	µg/L	1 U	6.7	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5	µg/L	1 U	0.75 J	0.40 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	5	µg/L	2 U	8.1	2.6 J	NA	3.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total BTEX	--	µg/L	0.60 J	44.9 J	123	ND	ND	ND	ND	8.5	ND	ND	16
PAHs													
Acenaphthene	20	µg/L	5 U	3.3 J	2.9 J	0.90	0.50 U	0.48 U	0.47 U	0.48 U	0.48 U	4.9 U	4.7 U
Acenaphthylene	--	µg/L	5 U	5 U	0.30 J	0.50 U	0.50 U	0.48 U	0.47 U	0.48 U	0.48 U	4.9 U	4.7 U
Anthracene	50	µg/L	5 U	5 U	10 U	0.50 U	0.50 U	0.48 U	0.47 U	0.48 U	0.48 U	4.9 U	4.7 U
Benzo(a)anthracene	0.002	µg/L	5 U	5 U	1.0 U	0.50 U	0.50 U	0.48 U	0.47 U	0.48 U	0.48 U	4.9 U	4.7 U
Benzo(a)pyrene	0	µg/L	5 U	5 U	1.0 U	0.50 U	0.50 U	0.48 U	0.47 U	0.48 U	0.48 U	4.9 U	4.7 U
Benzo(b)fluoranthene	0.002	µg/L	5 U	5 U	1.0 U	0.50 U	0.50 U	0.48 U	0.47 U	0.48 U	0.48 U	4.9 U	4.7 U
Benzo(g,h,i)perylene	--	µg/L	5 U	5 U	10 U	0.50 U	0.50 U	0.48 U	0.47 U	0.48 U	0.48 U	4.9 U	4.7 U
Benzo(k)fluoranthene	0.002	ug/L	5 U	5 U	1 U	0.5 UJ	0.5 U	0.48 U	0.47 U	0.48 U	0.48 U	4.9 U	4.7 U
Chrysene	0.002	µg/L	5 U	5 U	10 U	0.50 U	0.50 U	0.48 U	0.47 U	0.48 U	0.48 U	4.9 U	4.7 U
Dibenzo(a,h)anthracene	--	ug/L	5 U	5 U	1 U	0.5 U	0.5 U	0.48 U	0.47 U	0.48 U	0.48 U	4.9 U	4.7 U
Fluoranthene	50	µg/L	5 U	5 U	10 U	0.50 U	0.50 U	0.48 U	0.47 U	0.48 U	0.48 U	4.9 U	4.7 U
Fluorene	50	µg/L	5 U	5 U	10 U	0.50 U	0.50 U	0.48 U	0.47 U	0.48 U	0.48 U	4.9 U	4.7 U
Indeno(1,2,3-cd)pyrene	0.002	µg/L	5 U	5 U	1.0 U	0.50 U	0.50 U	0.48 U	0.47 U	0.48 U	0.48 U	4.9 U	4.7 U
Naphthalene	10	µg/L	5 U	5 U	3.0 J	13	0.50 U	0.48 U	0.47 U	0.48 U	0.48 U	4.9 U	4.7 U
Phenanthrene	50	µg/L	5 UB	5 U	10 U	0.50 U	0.50 U	0.48 U	0.47 U	0.48 U	0.48 U	4.9 U	4.7 U
Pyrene	50	µg/L	5 U	5 U	10 U	0.50 U	0.50 U	0.48 U	0.47 U	0.48 U	0.48 U	4.9 U	4.7 U
Total PAHs	--	µg/L	ND	3.3 J	6.2	14	ND	ND	ND	ND	ND	ND	ND

See notes on last page

Table 3
Groundwater Quality Data
2020 Periodic Review Report
NYSEG
Oneonta, New York

Location ID: Date Collected:	NYSDEC GW Std's & GV's	Units	MW-8807S										
			05/30/12	11/29/12	05/09/13	11/14/13	05/28/14	11/18/14	05/19/15	11/17/15	05/10/16	11/15/16	05/16/17
BTEX													
Benzene	1	µg/L	1.0 U	1.0 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	5	µg/L	1.0 U	1.0 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
m/p-Xylenes	--	µg/L	2.0 U	2.0 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
o-Xylene	--	µg/L	1.0 U	1.0 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	5	µg/L	1.0 U	1.0 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes (total)	5	µg/L	2.0 U	2.0 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Total BTEX	--	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PAHs													
Acenaphthene	20	µg/L	4.7 U	4.8 U	5 U	4.9 U	4.5 U	4.8 U	4.8 U	5.2 U	4.8 U	4.8 U	5 U
Acenaphthylene	--	µg/L	4.7 U	4.8 U	5 U	4.9 U	4.5 U	4.8 U	4.8 U	5.2 U	4.8 U	4.8 U	5 U
Anthracene	50	µg/L	4.7 U	4.8 U	5 U	4.9 U	4.5 U	4.8 U	4.8 U	5.2 U	4.8 U	4.8 U	5 U
Benzo(a)anthracene	0.002	µg/L	4.7 U	4.8 U	5 U	4.9 U	4.5 U	4.8 U	4.8 U	5.2 U	4.8 U	4.8 U	5 U
Benzo(a)pyrene	0	µg/L	4.7 U	4.8 U	5 U	4.9 U	4.5 U	4.8 U	4.8 U	5.2 U	4.8 U	4.8 U	5 U
Benzo(b)fluoranthene	0.002	µg/L	4.7 U	4.8 U	5 U	4.9 U	4.5 U	4.8 U	4.8 U	5.2 U	4.8 U	4.8 U	5 U
Benzo(g,h,i)perylene	--	µg/L	4.7 U	4.8 U	5 U	4.9 U	4.5 U	4.8 U	4.8 U	5.2 U	4.8 U	4.8 U	5 U
Benzo(k)fluoranthene	0.002	ug/L	4.7 U	4.8 U	5 U	4.9 U	4.5 U	4.8 U	4.8 U	5.2 U	4.8 U	4.8 U	5 U
Chrysene	0.002	µg/L	4.7 U	4.8 U	5 U	4.9 U	4.5 U	4.8 UJ	4.8 U	5.2 U	4.8 U	4.8 U	5 U
Dibenzo(a,h)anthracene	--	ug/L	4.7 U	4.8 U	5 U	4.9 U	4.5 U	4.8 U	4.8 U	5.2 U	4.8 U	4.8 U	5 U
Fluoranthene	50	µg/L	4.7 U	4.8 U	5 U	4.9 U	4.5 U	4.8 U	4.8 U	5.2 U	4.8 U	4.8 U	5 U
Fluorene	50	µg/L	4.7 U	4.8 U	5 U	4.9 U	4.5 U	4.8 U	4.8 U	5.2 U	4.8 U	4.8 U	5 U
Indeno(1,2,3-cd)pyrene	0.002	µg/L	4.7 U	4.8 U	5 U	4.9 U	4.5 U	4.8 UJ	4.8 U	5.2 U	4.8 U	4.8 U	5 U
Naphthalene	10	µg/L	4.7 U	4.8 U	5 U	4.9 U	4.5 U	4.8 U	4.8 U	5.2 U	4.8 U	4.8 U	5 U
Phenanthrene	50	µg/L	4.7 U	4.8 U	5 U	4.9 U	4.5 U	4.8 U	4.8 U	5.2 U	4.8 U	4.8 U	5 U
Pyrene	50	µg/L	4.7 U	4.8 U	5 U	4.9 U	4.5 U	4.8 U	4.8 U	5.2 U	4.8 U	4.8 U	5 U
Total PAHs	--	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

See notes on last page

Table 3
Groundwater Quality Data
2020 Periodic Review Report
NYSEG
Oneonta, New York

Location ID: Date Collected:	NYSDEC GW Stds & GV's	Units	MW-8807S			MW-8808S							
			11/07/17	05/15/18	11/14/18	05/29/03	04/22/08	11/11/08	05/12/09	12/01/09	05/18/10	11/02/10	05/10/11
BTEX													
Benzene	1	µg/L	1 U	1 UJ	1 U	1.0 U	1.0 U	1.0 U	0.82 J	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	µg/L	1 U	1 UJ	1 U	4.0 U	1.0 U	1.0 U	0.49 J	1.0 U	1.0 U	1.0 U	1.0 U
m/p-Xylenes	--	µg/L	2 U	2 UJ	2 U	NA	2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	--	µg/L	1 U	1 UJ	1 U	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5	µg/L	1 U	1 UJ	1 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	5	µg/L	3 U	2 UJ	2 U	5.0 U	NA	3.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total BTEX	--	µg/L	ND	ND	ND	ND	ND	ND	1.3 J	ND	ND	ND	ND
PAHs													
Acenaphthene	20	µg/L	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.47 U	0.48 U	0.48 U	0.47 U	4.7 U
Acenaphthylene	--	µg/L	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.47 U	0.48 U	0.48 U	0.47 U	4.7 U
Anthracene	50	µg/L	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.47 U	0.48 U	0.48 U	0.47 U	4.7 U
Benzo(a)anthracene	0.002	µg/L	5 U	5 U	5 U	1.0 U	0.50 U	0.50 U	0.47 U	0.48 U	0.48 U	0.47 U	4.7 U
Benzo(a)pyrene	0	µg/L	5 U	5 U	5 U	1.0 U	0.50 U	0.50 U	0.47 U	0.48 U	0.48 U	0.47 U	4.7 U
Benzo(b)fluoranthene	0.002	µg/L	5 U	5 U	5 U	1.0 U	0.50 U	0.50 U	0.47 U	0.48 U	0.48 U	0.47 U	4.7 U
Benzo(g,h,i)perylene	--	µg/L	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.47 U	0.48 U	0.48 U	0.47 U	4.7 U
Benzo(k)fluoranthene	0.002	ug/L	5 U	5 U	5 U	1 U	0.5 UJ	0.5 U	0.47 U	0.48 U	0.48 U	0.47 U	4.7 U
Chrysene	0.002	µg/L	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.47 U	0.48 U	0.48 U	0.47 U	4.7 U
Dibenzo(a,h)anthracene	--	ug/L	5 U	5 U	5 U	1 U	0.5 U	0.5 U	0.47 U	0.48 U	0.48 U	0.47 U	4.7 U
Fluoranthene	50	µg/L	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.47 U	0.48 U	0.48 U	0.47 U	4.7 U
Fluorene	50	µg/L	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.47 U	0.48 U	0.48 U	0.47 U	4.7 U
Indeno(1,2,3-cd)pyrene	0.002	µg/L	5 U	5 U	5 U	1.0 U	0.50 U	0.50 U	0.47 U	0.48 U	0.48 U	0.47 U	4.7 U
Naphthalene	10	µg/L	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.47 U	0.48 U	0.48 U	0.47 U	4.7 U
Phenanthrene	50	µg/L	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.47 U	0.48 U	0.48 U	0.47 U	4.7 U
Pyrene	50	µg/L	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.47 U	0.48 U	0.48 U	0.47 U	4.7 U
Total PAHs	--	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

See notes on last page

Table 3
Groundwater Quality Data
2020 Periodic Review Report
NYSEG
Oneonta, New York

Location ID: Date Collected:	NYSDEC GW Stds & GVs	Units	MW-8808S										
			11/08/11	05/30/12	11/29/12	05/09/13	11/14/13	05/29/14	11/19/14	05/19/15	11/17/15	05/10/16	11/15/16
BTEX													
Benzene	1	µg/L	1.0 U	1.0 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	5	µg/L	1.0 U	1.0 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
m/p-Xylenes	--	µg/L	2.0 U	2.0 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
o-Xylene	--	µg/L	1.0 U	1.0 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	5	µg/L	1.0 U	1.0 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes (total)	5	µg/L	2.0 U	2.0 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Total BTEX	--	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PAHs													
Acenaphthene	20	µg/L	4.7 U	4.7 U	4.8 U	4.7 U	4.9 U	4.7 U	5.1 U	5 U	5 U	4.8 U	4.8 U
Acenaphthylene	--	µg/L	4.7 U	4.7 U	4.8 U	4.7 U	4.9 U	4.7 U	5.1 U	5 U	5 U	4.8 U	4.8 U
Anthracene	50	µg/L	4.7 U	4.7 U	4.8 U	4.7 U	4.9 U	4.7 U	5.1 U	5 U	5 U	4.8 U	4.8 U
Benzo(a)anthracene	0.002	µg/L	4.7 U	4.7 U	4.8 U	4.7 U	4.9 U	4.7 U	5.1 U	5 U	5 U	4.8 U	4.8 U
Benzo(a)pyrene	0	µg/L	4.7 U	4.7 U	4.8 U	4.7 U	4.9 U	4.7 U	5.1 U	5 U	5 U	4.8 U	4.8 U
Benzo(b)fluoranthene	0.002	µg/L	4.7 U	4.7 U	4.8 U	4.7 U	4.9 U	4.7 U	5.1 U	5 U	5 U	4.8 U	4.8 U
Benzo(g,h,i)perylene	--	µg/L	4.7 U	4.7 U	4.8 U	4.7 U	4.9 U	4.7 U	5.1 U	5 U	5 U	4.8 U	4.8 U
Benzo(k)fluoranthene	0.002	ug/L	4.7 U	4.7 U	4.8 U	4.7 U	4.9 U	4.7 U	5.1 U	5 U	5 U	4.8 U	4.8 U
Chrysene	0.002	µg/L	4.7 U	4.7 U	4.8 U	4.7 U	4.9 U	4.7 U	5.1 UJ	5 U	5 U	4.8 U	4.8 U
Dibenzo(a,h)anthracene	--	ug/L	4.7 U	4.7 U	4.8 U	4.7 U	4.9 U	4.7 U	5.1 U	5 U	5 U	4.8 U	4.8 U
Fluoranthene	50	µg/L	4.7 U	4.7 U	4.8 U	4.7 U	4.9 U	4.7 U	5.1 U	5 U	5 U	4.8 U	4.8 U
Fluorene	50	µg/L	4.7 U	4.7 U	4.8 U	4.7 U	4.9 U	4.7 U	5.1 U	5 U	5 U	4.8 U	4.8 U
Indeno(1,2,3-cd)pyrene	0.002	µg/L	4.7 U	4.7 U	4.8 U	4.7 U	4.9 U	4.7 U	5.1 UJ	5 U	5 U	4.8 U	4.8 U
Naphthalene	10	µg/L	4.7 U	4.7 U	4.8 U	4.7 U	4.9 U	4.7 U	5.1 U	5 U	5 U	4.8 U	4.8 U
Phenanthrene	50	µg/L	4.7 U	4.7 U	4.8 U	4.7 U	4.9 U	4.7 U	5.1 U	5 U	5 U	4.8 U	4.8 U
Pyrene	50	µg/L	4.7 U	4.7 U	4.8 U	4.7 U	4.9 U	4.7 U	5.1 U	5 U	5 U	4.8 U	4.8 U
Total PAHs	--	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

See notes on last page

Table 3
Groundwater Quality Data
2020 Periodic Review Report
NYSEG
Oneonta, New York

Location ID: Date Collected:	NYSDEC GW Std's & GV's	Units	MW-8808S				MW-9109S						
			05/16/17	11/07/17	05/15/18	11/13/18	05/20/03	04/22/08	11/11/08	05/12/09	12/01/09	05/20/10	11/02/10
BTEX													
Benzene	1	µg/L	1 U	1 U	1 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	µg/L	1 U	1 U	1 U	1 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m/p-Xylenes	--	µg/L	2 U	2 U	2 U	2 U	NA	2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	--	µg/L	1 U	1 U	1 U	1 U	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5	µg/L	1 U	1 U	1 U	1 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	5	µg/L	2 U	3 U	2 U	2 U	5.0 U	NA	3.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total BTEX	--	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PAHs													
Acenaphthene	20	µg/L	5 U	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.47 U	0.48 U	0.48 U	0.48 U
Acenaphthylene	--	µg/L	5 U	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.47 U	0.48 U	0.48 U	0.48 U
Anthracene	50	µg/L	5 U	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.47 U	0.48 U	0.48 U	0.48 U
Benzo(a)anthracene	0.002	µg/L	5 U	5 U	5 U	5 U	1.0 U	0.50 U	0.50 U	0.47 U	0.48 UB	0.48 U	0.48 U
Benzo(a)pyrene	0	µg/L	5 U	5 U	5 U	5 U	1.0 U	0.50 U	0.50 U	0.47 U	0.48 U	0.48 U	0.48 U
Benzo(b)fluoranthene	0.002	µg/L	5 U	5 U	5 U	5 U	1.0 U	0.50 U	0.50 U	0.47 U	0.48 U	0.48 U	0.48 U
Benzo(g,h,i)perylene	--	µg/L	5 U	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.47 U	0.48 U	0.48 U	0.48 U
Benzo(k)fluoranthene	0.002	ug/L	5 U	5 U	5 U	5 U	1 U	0.5 UJ	0.5 U	0.47 U	0.48 U	0.48 U	0.48 U
Chrysene	0.002	µg/L	5 U	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.47 U	0.48 UB	0.48 UJ	0.48 U
Dibenzo(a,h)anthracene	--	ug/L	5 U	5 U	5 U	5 U	1 U	0.5 U	0.5 U	0.47 U	0.48 U	0.48 U	0.48 U
Fluoranthene	50	µg/L	5 U	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.47 U	0.48 U	0.48 U	0.48 U
Fluorene	50	µg/L	5 U	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.47 U	0.48 U	0.48 U	0.48 U
Indeno(1,2,3-cd)pyrene	0.002	µg/L	5 U	5 U	5 U	5 U	1.0 U	0.50 U	0.50 U	0.47 U	0.48 U	0.48 U	0.48 U
Naphthalene	10	µg/L	5 U	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.47 U	0.48 U	0.48 U	0.48 U
Phenanthrene	50	µg/L	5 U	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.47 U	0.48 U	0.48 U	0.48 U
Pyrene	50	µg/L	5 U	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.47 U	0.48 U	0.48 U	0.48 U
Total PAHs	--	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

See notes on last page

Table 3
Groundwater Quality Data
2020 Periodic Review Report
NYSEG
Oneonta, New York

Location ID: Date Collected:	NYSDEC GW Std's & GV's	Units	MW-9109S							MW-9110S			
			05/10/11	11/08/11	05/30/12	11/30/12	05/10/13	11/15/13	05/29/14	05/28/03	04/22/08	11/11/08	05/12/09
BTEX													
Benzene	1	µg/L	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	µg/L	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U	1 U	4.0 U	1.0 U	1.0 U	1.0 U
m/p-Xylenes	--	µg/L	2.0 U	2.0 U	2.0 U	2 U	2 U	2 U	2 U	NA	2.0 U	NA	2.0 U
o-Xylene	--	µg/L	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U	1 U	NA	1.0 U	NA	1.0 U
Toluene	5	µg/L	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U	1 U	5.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	5	µg/L	2.0 U	2.0 U	2.0 U	2 U	2 U	2 U	2 U	5.0 U	NA	3.0 U	2.0 U
Total BTEX	--	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PAHs													
Acenaphthene	20	µg/L	4.8 U	4.7 U	4.8 U	4.7 U	4.7 U	5.4 U	4.6 U	10 U	0.50 U	0.50 U	0.47 U
Acenaphthylene	--	µg/L	4.8 U	4.7 U	4.8 U	4.7 U	4.7 U	5.4 U	4.6 U	10 U	0.50 U	0.50 U	0.47 U
Anthracene	50	µg/L	4.8 U	4.7 U	4.8 U	4.7 U	4.7 U	5.4 U	4.6 U	10 U	0.50 U	0.50 U	0.47 U
Benzo(a)anthracene	0.002	µg/L	4.8 U	4.7 U	4.8 U	4.7 U	4.7 U	5.4 U	4.6 U	1.0 U	0.50 U	0.50 U	0.47 U
Benzo(a)pyrene	0	µg/L	4.8 U	4.7 U	4.8 U	4.7 U	4.7 U	5.4 UJ	4.6 U	1.0 U	0.50 U	0.50 U	0.47 U
Benzo(b)fluoranthene	0.002	µg/L	4.8 U	4.7 U	4.8 U	4.7 U	4.7 U	5.4 UJ	4.6 U	1.0 U	0.50 U	0.50 U	0.47 U
Benzo(g,h,i)perylene	--	µg/L	4.8 U	4.7 U	4.8 U	4.7 U	4.7 U	5.4 UJ	4.6 U	10 U	0.50 U	0.50 U	0.47 U
Benzo(k)fluoranthene	0.002	ug/L	4.8 U	4.7 U	4.8 U	4.7 U	4.7 U	5.4 UJ	4.6 U	1 U	0.5 UJ	0.5 U	0.47 U
Chrysene	0.002	µg/L	4.8 U	4.7 U	4.8 U	4.7 U	4.7 U	NA	NA	10 U	0.50 U	0.50 U	0.47 U
Dibenzo(a,h)anthracene	--	ug/L	4.8 U	4.7 U	4.8 U	4.7 U	4.7 U	5.4 UJ	4.6 U	1 U	0.5 U	0.5 U	0.47 U
Fluoranthene	50	µg/L	4.8 U	4.7 U	4.8 U	4.7 U	4.7 U	5.4 U	4.6 U	10 U	0.50 U	0.50 U	0.47 U
Fluorene	50	µg/L	4.8 U	4.7 U	4.8 U	4.7 U	4.7 U	5.4 U	4.6 U	10 U	0.50 U	0.50 U	0.47 U
Indeno(1,2,3-cd)pyrene	0.002	µg/L	4.8 U	4.7 U	4.8 U	4.7 U	4.7 U	5.4 UJ	4.6 U	1.0 U	0.50 U	0.50 U	0.47 U
Naphthalene	10	µg/L	4.8 U	4.7 U	4.8 U	4.7 U	4.7 U	5.4 U	4.6 U	10 U	0.50 U	0.50 U	0.47 U
Phenanthrene	50	µg/L	4.8 U	4.7 U	4.8 U	4.7 U	4.7 U	5.4 U	4.6 U	10 U	0.50 U	0.50 U	0.47 U
Pyrene	50	µg/L	4.8 U	4.7 U	4.8 U	4.7 U	4.7 U	5.4 U	4.6 U	10 U	0.50 U	0.50 U	0.47 U
Total PAHs	--	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

See notes on last page

Table 3
Groundwater Quality Data
2020 Periodic Review Report
NYSEG
Oneonta, New York

Location ID: Date Collected:	NYSDEC GW Stds & GV's	Units	MW-9110S										
			12/02/09	05/18/10	11/02/10	05/10/11	11/08/11	05/30/12	11/29/12	05/09/13	11/14/13	05/28/14	11/18/14
BTEX													
Benzene	1	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	5	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U	1 U	1 U
m/p-Xylenes	--	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2 U	2 U	2 U	2 U	2 U
o-Xylene	--	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U	1 U	1 U
Toluene	5	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U	1 U	1 U
Xylenes (total)	5	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2 U	2 U	2 U	2 U	2 U
Total BTEX	--	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PAHs													
Acenaphthene	20	µg/L	0.47 U	0.48 U	0.48 U	5.0 U	4.8 U	4.7 U	4.8 U	4.8 U	4.6 U	5.1 U	5 U
Acenaphthylene	--	µg/L	0.47 U	0.48 U	0.48 U	5.0 U	4.8 U	4.7 U	4.8 U	4.8 U	4.6 U	5.1 U	5 U
Anthracene	50	µg/L	0.47 U	0.48 U	0.48 U	5.0 U	4.8 U	4.7 U	4.8 U	4.8 U	4.6 U	5.1 U	5 U
Benzo(a)anthracene	0.002	µg/L	0.47 U	0.48 U	0.48 U	5.0 U	4.8 U	4.7 U	4.8 U	4.8 U	4.6 U	5.1 U	5 U
Benzo(a)pyrene	0	µg/L	0.47 U	0.48 U	0.48 U	5.0 U	4.8 U	4.7 U	4.8 U	4.8 U	4.6 U	5.1 U	5 U
Benzo(b)fluoranthene	0.002	µg/L	0.47 U	0.48 U	0.48 U	5.0 U	4.8 U	4.7 U	4.8 U	4.8 U	4.6 U	5.1 U	5 U
Benzo(g,h,i)perylene	--	µg/L	0.47 U	0.48 U	0.48 U	5.0 U	4.8 U	4.7 U	4.8 U	4.8 U	4.6 U	5.1 U	5 U
Benzo(k)fluoranthene	0.002	ug/L	0.47 U	0.48 U	0.48 U	5 U	4.8 U	4.7 U	4.8 U	4.8 U	4.6 U	5.1 U	5 U
Chrysene	0.002	µg/L	0.47 U	0.48 U	0.48 U	5.0 U	4.8 U	4.7 U	4.8 U	4.8 U	4.6 U	5.1 U	5 UJ
Dibenzo(a,h)anthracene	--	ug/L	0.47 U	0.48 U	0.48 U	5 U	4.8 U	4.7 U	4.8 U	4.8 U	4.6 U	5.1 U	5 U
Fluoranthene	50	µg/L	0.47 U	0.48 U	0.48 U	5.0 U	4.8 U	4.7 U	4.8 U	4.8 U	4.6 U	5.1 U	5 U
Fluorene	50	µg/L	0.47 U	0.48 U	0.48 U	5.0 U	4.8 U	4.7 U	4.8 U	4.8 U	4.6 U	5.1 U	5 U
Indeno(1,2,3-cd)pyrene	0.002	µg/L	0.47 U	0.48 U	0.48 U	5.0 U	4.8 U	4.7 U	4.8 U	4.8 U	4.6 U	5.1 U	5 UJ
Naphthalene	10	µg/L	0.11 J	0.48 U	0.48 U	5.0 U	4.8 U	4.7 U	4.8 U	4.8 U	4.6 U	5.1 U	5 U
Phenanthrene	50	µg/L	0.47 U	0.48 U	0.48 U	5.0 U	4.8 U	4.7 U	4.8 U	4.8 U	4.6 U	5.1 U	5 U
Pyrene	50	µg/L	0.47 U	0.48 U	0.48 U	5.0 U	4.8 U	4.7 U	4.8 U	4.8 U	4.6 U	5.1 U	5 U
Total PAHs	--	µg/L	0.11 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

See notes on last page

Table 3
Groundwater Quality Data
2020 Periodic Review Report
NYSEG
Oneonta, New York

Location ID: Date Collected:	NYSDEC GW Stds & GV's	Units	MW-9110S								MW-9111S		
			05/19/15	11/17/15	05/10/16	11/15/16	05/16/17	11/07/17	05/15/18	11/14/18	05/28/03	04/23/08	11/11/08
BTEX													
Benzene	1	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2.4	1.0 U	57
Ethylbenzene	5	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	4.0 U	1.0 U	2.0
m/p-Xylenes	--	µg/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	NA	2.0 U	NA
o-Xylene	--	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1.0 U	NA
Toluene	5	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5.0 U	1.0 U	1.0 U
Xylenes (total)	5	µg/L	2 U	2 U	2 U	2 U	2 U	3 U	2 U	2 U	5.0 U	NA	1.4 J
Total BTEX	--	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	2.4	ND	60 J
PAHs													
Acenaphthene	20	µg/L	4.6 U	4.9 U	4.8 U	4.8 U	5 U	5 U	5 U	5 U	11	5.0	10
Acenaphthylene	--	µg/L	4.6 U	4.9 U	4.8 U	4.8 U	5 U	5 U	5 U	5 U	10 U	0.50 U	0.50 U
Anthracene	50	µg/L	4.6 U	4.9 U	4.8 U	4.8 U	5 U	5 U	5 U	5 U	10 U	0.50 U	0.50 U
Benzo(a)anthracene	0.002	µg/L	4.6 U	4.9 U	4.8 U	4.8 U	5 U	5 U	5 U	5 U	1.0 U	0.50 U	0.50 U
Benzo(a)pyrene	0	µg/L	4.6 U	4.9 U	4.8 U	4.8 U	5 U	5 U	5 U	5 U	1.0 U	0.50 U	0.50 U
Benzo(b)fluoranthene	0.002	µg/L	4.6 U	4.9 U	4.8 U	4.8 U	5 U	5 U	5 U	5 U	1.0 U	0.50 U	0.50 U
Benzo(g,h,i)perylene	--	µg/L	4.6 U	4.9 U	4.8 U	4.8 UJ	5 U	5 U	5 U	5 U	10 U	0.50 U	0.50 U
Benzo(k)fluoranthene	0.002	ug/L	4.6 U	4.9 U	4.8 U	4.8 U	5 U	5 U	5 U	5 U	1 U	0.5 UJ	0.5 U
Chrysene	0.002	µg/L	4.6 U	4.9 U	4.8 U	4.8 U	5 U	5 U	5 U	5 U	10 U	0.50 U	0.50 U
Dibenzo(a,h)anthracene	--	ug/L	4.6 U	4.9 U	4.8 U	4.8 U	5 U	5 U	5 U	5 U	1 U	0.5 U	0.5 U
Fluoranthene	50	µg/L	4.6 U	4.9 U	4.8 U	4.8 U	5 U	5 U	5 U	5 U	10 U	0.50 U	0.50 U
Fluorene	50	µg/L	4.6 U	4.9 U	4.8 U	4.8 U	5 U	5 U	5 U	5 U	0.80 J	0.50	1.0
Indeno(1,2,3-cd)pyrene	0.002	µg/L	4.6 U	4.9 U	4.8 U	4.8 UJ	5 U	5 U	5 U	5 U	1.0 U	0.50 U	0.50 U
Naphthalene	10	µg/L	4.6 U	4.9 U	4.8 U	4.8 U	5 U	5 U	5 U	5 U	0.40 J	0.50 U	5.0
Phenanthrene	50	µg/L	4.6 U	4.9 U	4.8 U	4.8 U	5 U	5 U	5 U	5 U	10 U	0.50 U	0.20 J
Pyrene	50	µg/L	4.6 U	4.9 U	4.8 U	4.8 U	5 U	5 U	5 U	5 U	10 U	0.50 U	0.50 U
Total PAHs	--	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	12 J	5.5	16 J

See notes on last page

Table 3
Groundwater Quality Data
2020 Periodic Review Report
NYSEG
Oneonta, New York

Location ID: Date Collected:	NYSDEC GW Stds & GVs	Units	MW-9111S										
			05/12/09	12/01/09	05/20/10	11/02/10	05/10/11	11/09/11	05/30/12	11/30/12	05/10/13	11/14/13	05/29/14
BTEX													
Benzene	1	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.1	1 U	1 U	1 U
Ethylbenzene	5	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.79 J	1 U	1 U	1 U
m/p-Xylenes	--	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2 U	2 U	2 U	2 U
o-Xylene	--	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U	1 U
Toluene	5	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U	1 U
Xylenes (total)	5	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2 U	2 U	2 U	2 U
Total BTEX	--	µg/L	ND	ND	ND	ND	ND	ND	ND	2.9 J	ND	ND	ND
PAHs													
Acenaphthene	20	µg/L	4.5	7.8	4.5	6.1	3.8 J	5.6	4.2 J	5.3	3.1 J	5.8	3.8 J
Acenaphthylene	--	µg/L	0.47 U	0.47 U	0.50 U	0.47 U	4.8 U	4.7 U	5.2 U	4.7 U	0.68 J	5.2 U	4.6 U
Anthracene	50	µg/L	0.47 U	0.47 U	0.099 J	0.47 U	4.8 U	4.7 U	5.2 U	4.7 U	4.7 U	5.2 U	4.6 U
Benzo(a)anthracene	0.002	µg/L	0.47 U	0.47 U	0.50 U	0.47 UJ	4.8 U	4.7 U	5.2 U	4.7 U	4.7 U	5.2 U	4.6 U
Benzo(a)pyrene	0	µg/L	0.47 U	0.47 U	0.50 U	0.47 U	4.8 U	4.7 U	5.2 U	4.7 U	4.7 U	5.2 U	4.6 U
Benzo(b)fluoranthene	0.002	µg/L	0.47 U	0.47 U	0.50 U	0.47 UJ	4.8 U	4.7 U	5.2 U	4.7 U	4.7 U	5.2 U	4.6 U
Benzo(g,h,i)perylene	--	µg/L	0.47 U	0.47 U	0.50 U	0.47 UJ	4.8 U	4.7 U	5.2 U	4.7 U	4.7 U	5.2 U	4.6 U
Benzo(k)fluoranthene	0.002	ug/L	0.47 U	0.47 U	0.5 U	0.47 UJ	4.8 U	4.7 U	5.2 U	4.7 U	4.7 U	5.2 U	4.6 U
Chrysene	0.002	µg/L	0.47 U	0.47 U	0.11 J	0.47 UJ	4.8 U	4.7 U	5.2 U	4.7 U	4.7 U	5.2 U	4.6 U
Dibenzo(a,h)anthracene	--	ug/L	0.47 U	0.47 U	0.5 U	0.47 UJ	4.8 U	4.7 U	5.2 U	4.7 U	4.7 U	5.2 U	4.6 U
Fluoranthene	50	µg/L	0.47 U	0.47 U	0.50 U	0.47 U	4.8 U	4.7 U	5.2 U	4.7 U	4.7 U	5.2 U	4.6 U
Fluorene	50	µg/L	0.42 J	0.77	0.35 J	0.58	4.8 U	0.51 J	5.2 U	0.42 J	4.7 U	0.54 J	4.6 U
Indeno(1,2,3-cd)pyrene	0.002	µg/L	0.47 U	0.47 U	0.50 U	0.47 UJ	4.8 U	4.7 U	5.2 U	4.7 U	4.7 U	5.2 U	4.6 U
Naphthalene	10	µg/L	0.47 U	0.32 J	0.19 J	0.47 U	4.8 U	4.7 U	5.2 U	1.2 J	4.7 U	5.2 U	4.6 U
Phenanthrene	50	µg/L	0.47 U	0.17 J	0.50 U	0.47 U	4.8 U	4.7 U	5.2 U	4.7 U	4.7 U	5.2 U	4.6 U
Pyrene	50	µg/L	0.47 U	0.47 U	0.50 U	0.47 U	4.8 U	4.7 U	5.2 U	4.7 U	4.7 U	5.2 U	4.6 U
Total PAHs	--	µg/L	4.9 J	9.1 J	5.3 J	6.7	3.8 J	6.1 J	4.2 J	6.9 J	3.8 J	6.34 J	3.8 J

See notes on last page

Table 3
Groundwater Quality Data
2020 Periodic Review Report
NYSEG
Oneonta, New York

Location ID: Date Collected:	NYSDEC GW Stds & GV's	Units	MW-9111S										
			11/19/14	05/21/15	11/17/15	05/10/16	11/15/16	05/16/17	11/08/17	05/15/18	11/13/18	05/21/19	11/05/19
BTEX													
Benzene	1	µg/L	1.6	1 U	1 U	2.2	1 U	1 U	18	0.68 J	1 U	1 U	0.55 J
Ethylbenzene	5	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	0.45 J	1 U	1 U	1 U	1 U
m/p-Xylenes	--	µg/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
o-Xylene	--	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	0.21 J	1 U	1 U	1 U	1 U
Toluene	5	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes (total)	5	µg/L	2 U	2 U	2 U	2 U	2 U	2 U	3 U	2 U	2 U	2 U	2 U
Total BTEX	--	µg/L	1.6	ND	ND	2.2	ND	ND	18.5 J	0.68 J	ND	ND	0.55 J
PAHs													
Acenaphthene	20	µg/L	3.7 J	3.4 J	3.7 J	4 J	4.7	2.5 J	4.4 J	2.5 J	4.5 J	2.4 J	5.4
Acenaphthylene	--	µg/L	4.7 U	5 U	5 U	4.9 U	4.6 U	5 U	5 U	5 U	5 U	5.4 U	5 U
Anthracene	50	µg/L	4.7 U	5 U	5 U	4.9 U	4.6 U	5 U	5 U	5 U	5 U	5.4 U	5 U
Benzo(a)anthracene	0.002	µg/L	4.7 U	5 U	5 U	4.9 U	4.6 U	5 U	5 U	5 U	5 U	5.4 U	5 U
Benzo(a)pyrene	0	µg/L	4.7 U	5 U	5 U	4.9 U	4.6 U	5 U	5 U	5 U	5 U	5.4 U	5 U
Benzo(b)fluoranthene	0.002	µg/L	4.7 U	5 U	5 U	4.9 U	4.6 U	5 U	5 U	5 U	5 U	5.4 U	5 U
Benzo(g,h,i)perylene	--	µg/L	4.7 U	5 U	5 U	4.9 U	4.6 U	5 U	5 U	5 U	5 U	5.4 U	5 U
Benzo(k)fluoranthene	0.002	ug/L	4.7 U	5 U	5 U	4.9 U	4.6 U	5 U	5 U	5 U	5 U	5.4 U	5 U
Chrysene	0.002	µg/L	4.7 UJ	5 U	5 U	4.9 U	4.6 U	5 U	5 U	5 U	5 U	5.4 U	5 U
Dibenzo(a,h)anthracene	--	ug/L	4.7 U	5 U	5 U	4.9 U	4.6 U	5 U	5 U	5 U	5 U	5.4 U	5 U
Fluoranthene	50	µg/L	4.7 U	5 U	5 U	4.9 U	4.6 U	5 U	5 U	5 U	5 U	5.4 U	5 U
Fluorene	50	µg/L	4.7 U	5 U	5 U	4.9 U	4.6 U	5 U	5 U	5 U	5 U	5.4 U	5 U
Indeno(1,2,3-cd)pyrene	0.002	µg/L	4.7 UJ	5 U	5 U	4.9 U	4.6 U	5 U	5 U	5 U	5 U	5.4 U	5 U
Naphthalene	10	µg/L	4.7 U	5 U	5 U	4.9 U	4.6 U	5 U	1.6 J	5 U	5 U	5.4 U	5 U
Phenanthrene	50	µg/L	4.7 U	5 U	5 U	4.9 U	4.6 U	5 U	5 U	5 U	5 U	5.4 U	5 U
Pyrene	50	µg/L	4.7 U	5 U	5 U	4.9 U	4.6 U	5 U	5 U	5 U	5 U	5.4 U	5 U
Total PAHs	--	µg/L	3.7 J	3.4 J	3.7 J	4 J	4.7	2.5 J	6 J	2.5 J	4.5 J	2.4 J	5.4

See notes on last page

Table 3
Groundwater Quality Data
2020 Periodic Review Report
NYSEG
Oneonta, New York

Location ID: Date Collected:	NYSDEC GW Stds & GV's	Units	MW-9111S		MW-9112D								
			06/17/20	11/18/20	05/22/03	09/18/07	12/17/07	11/11/08	05/12/09	12/01/09	05/19/10	11/03/10	05/10/11
BTEX													
Benzene	1	µg/L	1 U	6.8	1.0 U	0.50 U	0.50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	µg/L	1 U	1 U	4.0 U	0.50 U	0.50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m/p-Xylenes	--	µg/L	2 U	2 U	NA	NA	NA	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	--	µg/L	1 U	1 U	NA	NA	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5	µg/L	1 U	1 U	5.0 U	0.50 U	0.50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	5	µg/L	2 U	2 U	5.0 U	1.5 U	1.5 U	3.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total BTEX	--	µg/L	ND	6.8	ND	ND	ND	ND	ND	ND	ND	ND	ND
PAHs													
Acenaphthene	20	µg/L	4.7 J	3.7 J	10 U	NA	NA	0.50 U	0.52 U	9.6 U	0.47 U	0.47 U	4.8 U
Acenaphthylene	--	µg/L	5 U	5 U	10 U	NA	NA	0.50 U	0.52 U	9.6 U	0.47 U	0.47 U	4.8 U
Anthracene	50	µg/L	5 U	5 U	10 U	NA	NA	0.50 U	0.52 U	9.6 U	0.47 U	0.47 U	4.8 U
Benzo(a)anthracene	0.002	µg/L	5 U	5 U	1.0 U	NA	NA	0.50 U	0.52 U	9.6 U	0.47 U	0.47 U	4.8 U
Benzo(a)pyrene	0	µg/L	5 U	5 U	1.0 U	NA	NA	0.50 U	0.52 U	9.6 U	0.47 U	0.47 U	4.8 U
Benzo(b)fluoranthene	0.002	µg/L	5 U	5 U	1.0 U	NA	NA	0.50 U	0.52 U	9.6 U	0.47 U	0.47 U	4.8 U
Benzo(g,h,i)perylene	--	µg/L	5 U	5 U	10 U	NA	NA	0.50 U	0.52 U	9.6 U	0.47 U	0.47 U	4.8 U
Benzo(k)fluoranthene	0.002	ug/L	5 U	5 U	1 U	NA	NA	0.5 U	0.5 U	9.6 U	0.47 U	0.47 U	4.8 U
Chrysene	0.002	µg/L	5 U	5 U	10 U	NA	NA	0.50 U	0.52 U	9.6 U	0.47 U	0.47 U	4.8 U
Dibenzo(a,h)anthracene	--	ug/L	5 U	5 U	1 U	NA	NA	0.5 U	0.5 U	9.6 U	0.47 U	0.47 U	4.8 U
Fluoranthene	50	µg/L	0.48 J	5 U	10 U	NA	NA	0.50 U	0.52 U	9.6 U	0.47 U	0.47 U	4.8 U
Fluorene	50	µg/L	5 U	5 U	10 U	NA	NA	0.50 U	0.52 U	9.6 U	0.47 U	0.47 U	4.8 U
Indeno(1,2,3-cd)pyrene	0.002	µg/L	5 U	5 U	1.0 U	NA	NA	0.50 U	0.52 U	9.6 U	0.47 U	0.47 U	4.8 U
Naphthalene	10	µg/L	5 U	5 U	10 U	NA	NA	0.50 U	0.52 U	9.6 U	0.47 U	0.47 U	4.8 U
Phenanthrene	50	µg/L	5 UB	5 U	10 U	NA	NA	0.50 U	0.52 U	9.6 U	0.47 U	0.47 U	4.8 U
Pyrene	50	µg/L	5 U	5 U	10 U	NA	NA	0.50 U	0.52 U	9.6 U	0.47 U	0.47 U	4.8 U
Total PAHs	--	µg/L	5.2 J	3.7 J	ND	NA	NA	ND	ND	ND	ND	ND	ND

See notes on last page

Table 3
Groundwater Quality Data
2020 Periodic Review Report
NYSEG
Oneonta, New York

Location ID: Date Collected:	NYSDEC GW Stds & GVs	Units	MW-9112D										
			11/08/11	05/30/12	11/29/12	05/09/13	11/13/13	05/28/14	11/18/14	05/19/15	11/18/15	05/11/16	11/15/16
BTEX													
Benzene	1	µg/L	1.0 U	1.0 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	5	µg/L	1.0 U	1.0 U	0.75 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
m/p-Xylenes	--	µg/L	2.0 U	2.0 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
o-Xylene	--	µg/L	1.0 U	1.0 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	5	µg/L	1.0 U	1.0 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes (total)	5	µg/L	2.0 U	2.0 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Total BTEX	--	µg/L	ND	ND	0.75 J	ND	ND	ND	ND	ND	ND	ND	ND
PAHs													
Acenaphthene	20	µg/L	4.9 U	5.6 U	4.7 U	4.8 U	4.8 U	4.6 U	4.7 U	4.8 U	4.9 U	4.9 U	4.6 U
Acenaphthylene	--	µg/L	4.9 U	5.6 U	4.7 U	4.8 U	4.8 U	4.6 U	4.7 U	4.8 U	4.9 U	4.9 U	4.6 U
Anthracene	50	µg/L	4.9 U	5.6 U	4.7 U	4.8 U	4.8 U	4.6 U	4.7 U	4.8 U	4.9 U	4.9 U	4.6 U
Benzo(a)anthracene	0.002	µg/L	4.9 U	5.6 U	4.7 U	4.8 U	4.8 U	4.6 U	4.7 U	4.8 U	4.9 U	4.9 U	4.6 U
Benzo(a)pyrene	0	µg/L	4.9 U	5.6 U	4.7 U	4.8 U	4.8 U	4.6 U	4.7 UJ	4.8 U	4.9 U	4.9 U	4.6 U
Benzo(b)fluoranthene	0.002	µg/L	4.9 U	5.6 U	4.7 U	4.8 U	4.8 U	4.6 U	4.7 U	4.8 U	4.9 U	4.9 U	4.6 U
Benzo(g,h,i)perylene	--	µg/L	4.9 U	5.6 U	4.7 U	4.8 U	4.8 U	4.6 U	4.7 UJ	4.8 U	4.9 U	4.9 U	4.6 U
Benzo(k)fluoranthene	0.002	ug/L	4.9 U	5.6 U	4.7 U	4.8 U	4.8 U	4.6 U	4.7 U	4.8 U	4.9 U	4.9 U	4.6 U
Chrysene	0.002	µg/L	4.9 U	5.6 U	4.7 U	4.8 U	4.8 U	4.6 U	4.7 UJ	4.8 U	4.9 U	4.9 U	4.6 U
Dibenzo(a,h)anthracene	--	ug/L	4.9 U	5.6 U	4.7 U	4.8 U	4.8 U	4.6 U	4.7 UJ	4.8 U	4.9 U	4.9 U	4.6 U
Fluoranthene	50	µg/L	4.9 U	5.6 U	4.7 U	4.8 U	4.8 U	4.6 U	4.7 U	0.41 J	4.9 U	4.9 U	4.6 U
Fluorene	50	µg/L	4.9 U	5.6 U	4.7 U	4.8 U	4.8 U	4.6 U	4.7 U	4.8 U	4.9 U	4.9 U	4.6 U
Indeno(1,2,3-cd)pyrene	0.002	µg/L	4.9 U	5.6 U	4.7 U	4.8 U	4.8 U	4.6 U	4.7 UJ	4.8 U	4.9 U	4.9 U	4.6 U
Naphthalene	10	µg/L	4.9 U	5.6 U	1.2 J	4.8 U	4.8 U	4.6 U	4.7 U	4.8 U	4.9 U	4.9 U	4.6 U
Phenanthrene	50	µg/L	4.9 U	5.6 U	4.7 U	4.8 U	4.8 U	4.6 U	4.7 U	0.54 J	4.9 U	4.9 U	4.6 U
Pyrene	50	µg/L	4.9 U	5.6 U	4.7 U	4.8 U	4.8 U	4.6 U	4.7 U	4.8 U	4.9 U	4.9 U	4.6 U
Total PAHs	--	µg/L	ND	ND	1.2 J	ND	ND	ND	ND	0.95 J	ND	ND	ND

See notes on last page

Table 3
Groundwater Quality Data
2020 Periodic Review Report
NYSEG
Oneonta, New York

Location ID: Date Collected:	NYSDEC GW Stds & GV's	Units	MW-9112D								MW-9112S		
			05/16/17	11/07/17	05/16/18	11/13/18	05/21/19	11/05/19	06/16/20	11/18/20	05/22/03	09/18/07	12/17/07
BTEX													
Benzene	1	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1.0 U	0.50 U	0.50 U
Ethylbenzene	5	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	4.0 U	0.50 U	0.50 U
m/p-Xylenes	--	µg/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	NA	NA	NA
o-Xylene	--	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA
Toluene	5	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5.0 U	0.50 U	0.50 U
Xylenes (total)	5	µg/L	2 U	3 U	2 U	2 U	2 U	2 U	2 U	2 U	5.0 U	1.5 U	1.5 U
Total BTEX	--	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PAHs													
Acenaphthene	20	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	NA	NA
Acenaphthylene	--	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	NA	NA
Anthracene	50	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	NA	NA
Benzo(a)anthracene	0.002	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1.0 U	NA	NA
Benzo(a)pyrene	0	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1.0 U	NA	NA
Benzo(b)fluoranthene	0.002	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1.0 U	NA	NA
Benzo(g,h,i)perylene	--	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	NA	NA
Benzo(k)fluoranthene	0.002	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	NA	NA
Chrysene	0.002	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	NA	NA
Dibenzo(a,h)anthracene	--	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	NA	NA
Fluoranthene	50	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	NA	NA
Fluorene	50	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	NA	NA
Indeno(1,2,3-cd)pyrene	0.002	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1.0 U	NA	NA
Naphthalene	10	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	NA	NA
Phenanthrene	50	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	NA	NA
Pyrene	50	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	NA	NA
Total PAHs	--	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA

See notes on last page

Table 3
Groundwater Quality Data
2020 Periodic Review Report
NYSEG
Oneonta, New York

Location ID: Date Collected:	NYSDEC GW Std's & GV's	Units	MW-9112S										
			04/23/08	11/11/08	05/12/09	12/01/09	05/19/10	11/03/10	05/10/11	11/08/11	05/30/12	11/29/12	05/09/13
BTEX													
Benzene	1	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.42 J	1 U
Ethylbenzene	5	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.2	1 U
m/p-Xylenes	--	µg/L	2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2 U	2 U
o-Xylene	--	µg/L	1.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U
Toluene	5	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U
Xylenes (total)	5	µg/L	NA	3.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2 U	2 U
Total BTEX	--	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.6 J	ND
PAHs													
Acenaphthene	20	µg/L	0.50 U	0.50 U	0.48 U	0.48 U	0.47 U	0.47 U	4.8 U	4.7 U	5.6 U	4.7 U	4.8 U
Acenaphthylene	--	µg/L	0.50 U	0.50 U	0.48 U	0.48 U	0.47 U	0.47 U	4.8 U	4.7 U	5.6 U	4.7 U	4.8 U
Anthracene	50	µg/L	0.50 U	0.50 U	0.48 U	0.48 U	0.47 U	0.47 U	4.8 U	4.7 U	5.6 U	4.7 U	4.8 U
Benzo(a)anthracene	0.002	µg/L	0.50 U	0.50 U	0.48 U	0.48 U	0.47 U	0.47 U	4.8 U	4.7 U	5.6 U	4.7 U	4.8 U
Benzo(a)pyrene	0	µg/L	0.50 U	0.50 U	0.48 U	0.48 U	0.47 U	0.47 U	4.8 U	4.7 U	5.6 U	4.7 U	4.8 U
Benzo(b)fluoranthene	0.002	µg/L	0.50 UJ	0.50 U	0.48 U	0.48 U	0.47 U	0.47 U	4.8 U	4.7 U	5.6 U	4.7 U	4.8 U
Benzo(g,h,i)perylene	--	µg/L	0.50 U	0.50 U	0.48 U	0.48 U	0.47 U	0.47 U	4.8 U	4.7 U	5.6 U	4.7 U	4.8 U
Benzo(k)fluoranthene	0.002	ug/L	0.5 UJ	0.5 U	0.48 U	0.48 U	0.47 U	0.47 U	4.8 U	4.7 U	5.6 U	4.7 U	4.8 U
Chrysene	0.002	µg/L	0.50 U	0.50 U	0.48 U	0.48 U	0.47 U	0.47 U	4.8 U	4.7 U	5.6 U	4.7 U	4.8 U
Dibenzo(a,h)anthracene	--	ug/L	0.5 UJ	0.5 U	0.48 U	0.48 U	0.47 U	0.47 U	4.8 U	4.7 U	5.6 U	4.7 U	4.8 U
Fluoranthene	50	µg/L	0.50 U	0.50 U	0.48 U	0.48 U	0.47 U	0.47 U	4.8 U	4.7 U	5.6 U	4.7 U	4.8 U
Fluorene	50	µg/L	0.50 U	0.50 U	0.48 U	0.48 U	0.47 U	0.47 U	4.8 U	4.7 U	5.6 U	4.7 U	4.8 U
Indeno(1,2,3-cd)pyrene	0.002	µg/L	0.50 UJ	0.50 U	0.48 U	0.48 U	0.47 U	0.47 U	4.8 U	4.7 U	5.6 U	4.7 U	4.8 U
Naphthalene	10	µg/L	0.50	0.50 U	0.48 U	0.48 U	0.47 U	0.47 U	4.8 U	4.7 U	5.6 U	1.8 J	4.8 U
Phenanthrene	50	µg/L	0.50 U	0.50 U	0.48 U	0.48 U	0.47 U	0.47 U	4.8 U	4.7 U	5.6 U	4.7 U	4.8 U
Pyrene	50	µg/L	0.50 U	0.50 U	0.48 U	0.48 U	0.47 U	0.47 U	4.8 U	4.7 U	5.6 U	4.7 U	4.8 U
Total PAHs	--	µg/L	0.50	ND	ND	ND	ND	ND	ND	ND	ND	1.8 J	ND

See notes on last page

Table 3
Groundwater Quality Data
2020 Periodic Review Report
NYSEG
Oneonta, New York

Location ID: Date Collected:	NYSDEC GW Stds & GVs	Units	MW-9112S										
			11/13/13	05/28/14	11/18/14	05/19/15	11/18/15	05/11/16	11/15/16	05/16/17	11/07/17	05/15/18	11/13/18
BTEX													
Benzene	1	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	5	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
m/p-Xylenes	--	µg/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
o-Xylene	--	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	5	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes (total)	5	µg/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	3 U	2 U	2 U
Total BTEX	--	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PAHs													
Acenaphthene	20	µg/L	5.6 U	4.6 U	5.5 U	5.2 U	4.8 U	4.8 U	4.6 U	5 U	5 U	5 U	5 U
Acenaphthylene	--	µg/L	5.6 U	4.6 U	5.5 U	5.2 U	4.8 U	4.8 U	4.6 U	5 U	5 U	5 U	5 U
Anthracene	50	µg/L	5.6 U	4.6 U	5.5 U	5.2 U	4.8 U	4.8 U	4.6 U	5 U	5 U	5 U	5 U
Benzo(a)anthracene	0.002	µg/L	5.6 U	4.6 U	5.5 U	5.2 U	4.8 U	4.8 U	4.6 U	5 U	5 U	5 U	5 U
Benzo(a)pyrene	0	µg/L	5.6 U	4.6 U	5.5 U	5.2 U	4.8 U	4.8 U	4.6 U	5 U	5 U	5 U	5 U
Benzo(b)fluoranthene	0.002	µg/L	5.6 U	4.6 U	5.5 U	5.2 U	4.8 U	4.8 U	4.6 U	5 U	5 U	5 U	5 U
Benzo(g,h,i)perylene	--	µg/L	5.6 U	4.6 U	5.5 U	5.2 U	4.8 U	4.8 U	4.6 U	5 U	5 U	5 U	5 U
Benzo(k)fluoranthene	0.002	ug/L	5.6 U	4.6 U	5.5 U	5.2 U	4.8 U	4.8 U	4.6 U	5 U	5 U	5 U	5 U
Chrysene	0.002	µg/L	5.6 U	4.6 U	5.5 UJ	5.2 U	4.8 U	4.8 U	4.6 U	5 U	5 U	5 U	5 U
Dibenzo(a,h)anthracene	--	ug/L	5.6 U	4.6 U	5.5 U	5.2 U	4.8 U	4.8 U	4.6 U	5 U	5 U	5 U	5 U
Fluoranthene	50	µg/L	5.6 U	4.6 U	5.5 U	5.2 U	4.8 U	4.8 U	4.6 U	5 U	5 U	5 U	5 U
Fluorene	50	µg/L	5.6 U	4.6 U	5.5 U	5.2 U	4.8 U	4.8 U	4.6 U	5 U	5 U	5 U	5 U
Indeno(1,2,3-cd)pyrene	0.002	µg/L	5.6 U	4.6 U	5.5 UJ	5.2 U	4.8 U	4.8 U	4.6 U	5 U	5 U	5 U	5 U
Naphthalene	10	µg/L	5.6 U	4.6 U	5.5 U	5.2 U	4.8 U	4.8 U	4.6 U	5 U	5 U	5 U	5 U
Phenanthrene	50	µg/L	5.6 U	4.6 U	5.5 U	5.2 U	4.8 U	4.8 U	4.6 U	5 U	5 U	5 U	5 U
Pyrene	50	µg/L	5.6 U	4.6 U	5.5 U	5.2 U	4.8 U	4.8 U	4.6 U	5 U	5 U	5 U	5 U
Total PAHs	--	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

See notes on last page

Table 3
Groundwater Quality Data
2020 Periodic Review Report
NYSEG
Oneonta, New York

Location ID: Date Collected:	NYSDEC GW Std's & GV's	Units	MW-9112S				MW-9114S						
			05/21/19	11/06/19	06/16/20	11/18/20	05/21/03	04/23/08	11/11/08	05/12/09	12/02/09	05/19/10	11/02/10
BTEX													
Benzene	1	µg/L	1 U	1 U	1 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U	0.42 J	1.0 U	1.0 U
Ethylbenzene	5	µg/L	1 U	1 U	1 U	1 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m/p-Xylenes	--	µg/L	2 U	2 U	2 U	2 U	NA	2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	--	µg/L	1 U	1 U	1 U	1 U	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5	µg/L	1 U	1 U	1 U	1 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	5	µg/L	2 U	2 U	2 U	2 U	5.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total BTEX	--	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	0.42 J	ND	ND
PAHs													
Acenaphthene	20	µg/L	5 U	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.47 U	0.47 U	0.49 U	0.47 U
Acenaphthylene	--	µg/L	5 U	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.47 U	0.47 U	0.49 U	0.47 U
Anthracene	50	µg/L	5 U	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.47 U	0.47 U	0.49 U	0.47 U
Benzo(a)anthracene	0.002	µg/L	5 U	5 U	5 U	5 U	1.0 U	0.50 U	0.50 U	0.47 U	0.47 U	0.49 U	0.47 U
Benzo(a)pyrene	0	µg/L	5 U	5 U	5 U	5 U	1.0 U	0.50 U	0.50 U	0.47 U	0.47 U	0.49 U	0.47 U
Benzo(b)fluoranthene	0.002	µg/L	5 U	5 U	5 U	5 U	1.0 U	0.50 U	0.50 U	0.47 U	0.47 U	0.49 U	0.47 U
Benzo(g,h,i)perylene	--	µg/L	5 U	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.47 U	0.47 U	0.49 U	0.47 U
Benzo(k)fluoranthene	0.002	ug/L	5 U	5 U	5 U	5 U	1 U	0.5 UJ	0.5 U	0.47 U	0.47 U	0.49 U	0.47 U
Chrysene	0.002	µg/L	5 U	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.47 U	0.47 U	0.49 U	0.47 U
Dibenzo(a,h)anthracene	--	ug/L	5 U	5 U	5 U	5 U	1 U	0.5 U	0.5 U	0.47 U	0.47 U	0.49 U	0.47 U
Fluoranthene	50	µg/L	5 U	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.47 U	0.47 U	0.49 U	0.47 U
Fluorene	50	µg/L	5 U	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.47 U	0.47 U	0.49 U	0.47 U
Indeno(1,2,3-cd)pyrene	0.002	µg/L	5 U	5 U	5 U	5 U	1.0 U	0.50 U	0.50 U	0.47 U	0.47 U	0.49 U	0.47 U
Naphthalene	10	µg/L	5 U	5 U	5 U	5 U	10 U	1.0	0.50 U	0.47 U	0.47 U	0.49 U	0.47 U
Phenanthrene	50	µg/L	5 U	5 U	5 UB	5 U	10 U	0.50 U	0.50 U	0.47 U	0.47 U	0.49 U	0.47 U
Pyrene	50	µg/L	5 U	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.47 U	0.47 U	0.49 U	0.47 U
Total PAHs	--	µg/L	ND	ND	ND	ND	ND	1.2 J	ND	ND	ND	ND	ND

See notes on last page

Table 3
Groundwater Quality Data
2020 Periodic Review Report
NYSEG
Oneonta, New York

Location ID: Date Collected:	NYSDEC GW Stds & GVs	Units	MW-9114S										
			05/11/11	11/08/11	05/30/12	11/29/12	05/09/13	11/14/13	05/28/14	11/18/14	05/19/15	11/17/15	05/11/16
BTEX													
Benzene	1	µg/L	1.0 U	1.0 U	1.0 U	0.76 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	5	µg/L	1.0 U	1.0 U	1.0 U	1.9	1 U	1 U	1 U	1 U	1 U	1 U	1 U
m/p-Xylenes	--	µg/L	2.0 U	2.0 U	2.0 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
o-Xylene	--	µg/L	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	5	µg/L	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U	1 U	1 U	1 U	1.9	1 U
Xylenes (total)	5	µg/L	2.0 U	2.0 U	2.0 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Total BTEX	--	µg/L	ND	ND	ND	2.7 J	ND	ND	ND	ND	ND	1.9	ND
PAHs													
Acenaphthene	20	µg/L	4.9 U	0.47 U	5.3 U	4.7 U	4.7 U	5.4 U	4.6 U	4.7 U	5 U	5.1 U	4.8 U
Acenaphthylene	--	µg/L	4.9 U	0.47 U	5.3 U	4.7 U	4.7 U	5.4 U	4.6 U	4.7 U	5 U	5.1 U	4.8 U
Anthracene	50	µg/L	4.9 U	0.47 U	5.3 U	4.7 U	4.7 U	5.4 U	4.6 U	4.7 U	5 U	5.1 U	4.8 U
Benzo(a)anthracene	0.002	µg/L	4.9 U	0.47 U	5.3 U	4.7 U	4.7 U	5.4 U	4.6 U	4.7 U	5 U	5.1 U	4.8 U
Benzo(a)pyrene	0	µg/L	4.9 U	0.47 U	5.3 U	4.7 U	4.7 U	5.4 U	4.6 U	4.7 U	5 U	5.1 U	4.8 U
Benzo(b)fluoranthene	0.002	µg/L	4.9 U	0.47 U	5.3 U	4.7 U	4.7 U	5.4 U	4.6 U	4.7 U	5 U	5.1 U	4.8 U
Benzo(g,h,i)perylene	--	µg/L	4.9 U	0.47 U	5.3 U	4.7 U	4.7 U	5.4 U	4.6 UJ	4.7 U	5 U	5.1 U	4.8 U
Benzo(k)fluoranthene	0.002	ug/L	4.9 U	4.7 U	5.3 U	4.7 U	4.7 U	5.4 U	4.6 U	4.7 U	5 U	5.1 U	4.8 U
Chrysene	0.002	µg/L	4.9 U	0.47 U	5.3 U	4.7 U	4.7 U	5.4 U	4.6 U	4.7 UJ	5 U	5.1 U	4.8 U
Dibenzo(a,h)anthracene	--	ug/L	4.9 U	4.7 U	5.3 U	4.7 U	4.7 U	5.4 U	4.6 UJ	4.7 U	5 U	5.1 U	4.8 U
Fluoranthene	50	µg/L	4.9 U	0.47 U	5.3 U	4.7 U	4.7 U	5.4 U	4.6 U	4.7 U	5 U	5.1 U	4.8 U
Fluorene	50	µg/L	4.9 U	0.47 U	5.3 U	4.7 U	4.7 U	5.4 U	4.6 U	4.7 U	5 U	5.1 U	4.8 U
Indeno(1,2,3-cd)pyrene	0.002	µg/L	4.9 U	0.47 U	5.3 U	4.7 U	4.7 U	5.4 U	4.6 UJ	4.7 UJ	5 U	5.1 U	4.8 U
Naphthalene	10	µg/L	4.9 U	0.47 U	5.3 U	2.3 J	4.7 U	5.4 U	4.6 U	4.7 U	5 U	5.1 U	4.8 U
Phenanthrene	50	µg/L	4.9 U	0.47 U	5.3 U	4.7 U	4.7 U	5.4 U	4.6 U	4.7 U	5 U	5.1 U	4.8 U
Pyrene	50	µg/L	4.9 U	0.47 U	5.3 U	4.7 U	4.7 U	5.4 U	4.6 U	4.7 U	5 U	5.1 U	4.8 U
Total PAHs	--	µg/L	ND	ND	ND	2.3 J	ND	ND	ND	ND	ND	ND	ND

See notes on last page

Table 3
Groundwater Quality Data
2020 Periodic Review Report
NYSEG
Oneonta, New York

Location ID: Date Collected:	NYSDEC GW Std's & GV's	Units	MW-9114S									MW-9502S	
			11/16/16	05/16/17	11/07/17	05/16/18	11/14/18	05/22/19	11/05/19	06/16/20	11/18/20	05/21/03	09/18/07
BTEX													
Benzene	1	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1.0 U	0.50 U
Ethylbenzene	5	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	4.0 U	0.94
m/p-Xylenes	--	µg/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	NA	NA
o-Xylene	--	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA
Toluene	5	µg/L	1 U	25	1 U	0.55 J	1 U	19	1.9	1U	1U	5.0 U	0.50 U
Xylenes (total)	5	µg/L	2 U	2 U	3 U	2 U	2 U	2 U	2 U	2 U	2 U	5.0 U	1.4 J
Total BTEX	--	µg/L	ND	25	ND	0.55 J	ND	19	1.9	ND	ND	ND	2.3 J
PAHs													
Acenaphthene	20	µg/L	4.5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	NA
Acenaphthylene	--	µg/L	4.5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	NA
Anthracene	50	µg/L	4.5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	NA
Benzo(a)anthracene	0.002	µg/L	4.5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1.0 U	NA
Benzo(a)pyrene	0	µg/L	4.5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1.0 U	NA
Benzo(b)fluoranthene	0.002	µg/L	4.5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1.0 U	NA
Benzo(g,h,i)perylene	--	µg/L	4.5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	NA
Benzo(k)fluoranthene	0.002	ug/L	4.5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	NA
Chrysene	0.002	µg/L	4.5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	NA
Dibenzo(a,h)anthracene	--	ug/L	4.5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	NA
Fluoranthene	50	µg/L	4.5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.45 J	5 U	10 U	NA
Fluorene	50	µg/L	4.5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	NA
Indeno(1,2,3-cd)pyrene	0.002	µg/L	4.5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1.0 U	NA
Naphthalene	10	µg/L	4.5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	NA
Phenanthrene	50	µg/L	4.5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 UB	5 U	10 U	NA
Pyrene	50	µg/L	4.5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	NA
Total PAHs	--	µg/L	ND	ND	ND	ND	ND	ND	ND	0.45 J	ND	ND	NA

See notes on last page

Table 3
Groundwater Quality Data
2020 Periodic Review Report
NYSEG
Oneonta, New York

Location ID: Date Collected:	NYSDEC GW Stds & GV's	Units	MW-9502S										
			12/17/07	12/01/09	05/20/10	11/02/10	05/10/11	11/08/11	05/30/12	11/29/12	05/09/13	11/14/13	05/28/14
BTEX													
Benzene	1	µg/L	0.50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.9	1 U	1 U	1 U
Ethylbenzene	5	µg/L	0.50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.3	1 U	1 U	1 U
m/p-Xylenes	--	µg/L	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2 U	2 U	2 U	2 U
o-Xylene	--	µg/L	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U	1 U
Toluene	5	µg/L	0.50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U	1 U
Xylenes (total)	5	µg/L	1.5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2 U	2 U	2 U	2 U
Total BTEX	--	µg/L	ND	ND	ND	ND	ND	ND	ND	3.2	ND	ND	ND
PAHs													
Acenaphthene	20	µg/L	NA	0.47 U	0.48 U	0.48 U	4.8 U	4.8 U	5.2 U	0.49 J	4.8 U	5.3 U	4.5 U
Acenaphthylene	--	µg/L	NA	0.47 U	0.48 U	0.48 U	4.8 U	4.8 U	5.2 U	4.7 U	4.8 U	5.3 U	4.5 U
Anthracene	50	µg/L	NA	0.47 U	0.48 U	0.48 U	4.8 U	4.8 U	5.2 U	4.7 U	4.8 U	5.3 U	4.5 U
Benzo(a)anthracene	0.002	µg/L	NA	0.47 U	0.48 U	0.48 U	4.8 U	4.8 U	5.2 U	4.7 U	4.8 U	5.3 U	4.5 U
Benzo(a)pyrene	0	µg/L	NA	0.47 U	0.48 U	0.48 U	4.8 U	4.8 U	5.2 U	4.7 U	4.8 U	5.3 U	4.5 U
Benzo(b)fluoranthene	0.002	µg/L	NA	0.47 U	0.48 U	0.48 U	4.8 U	4.8 U	5.2 U	4.7 U	4.8 U	5.3 U	4.5 U
Benzo(g,h,i)perylene	--	µg/L	NA	0.47 U	0.48 U	0.48 U	4.8 U	4.8 U	5.2 U	4.7 U	4.8 U	5.3 U	4.5 U
Benzo(k)fluoranthene	0.002	ug/L	NA	0.47 U	0.48 U	0.48 U	4.8 U	4.8 U	5.2 U	4.7 U	4.8 U	5.3 U	4.5 U
Chrysene	0.002	µg/L	NA	0.47 U	0.48 U	0.48 U	4.8 U	4.8 U	5.2 U	4.7 U	4.8 U	5.3 U	4.5 U
Dibenzo(a,h)anthracene	--	ug/L	NA	0.47 U	0.48 U	0.48 U	4.8 U	4.8 U	5.2 U	4.7 U	4.8 U	5.3 U	4.5 U
Fluoranthene	50	µg/L	NA	0.47 U	0.48 U	0.48 U	4.8 U	4.8 U	5.2 U	4.7 U	4.8 U	5.3 U	4.5 U
Fluorene	50	µg/L	NA	0.47 U	0.48 U	0.48 U	4.8 U	4.8 U	5.2 U	4.7 U	4.8 U	5.3 U	4.5 U
Indeno(1,2,3-cd)pyrene	0.002	µg/L	NA	0.47 U	0.48 U	0.48 U	4.8 U	4.8 U	5.2 U	4.7 U	4.8 U	5.3 U	4.5 U
Naphthalene	10	µg/L	NA	0.47 U	0.48 U	0.48 U	4.8 U	4.8 U	5.2 U	2.1 J	4.8 U	5.3 U	4.5 U
Phenanthrene	50	µg/L	NA	0.47 U	0.48 U	0.48 U	4.8 U	4.8 U	5.2 U	4.7 U	4.8 U	5.3 U	4.5 U
Pyrene	50	µg/L	NA	0.47 U	0.48 U	0.48 U	4.8 U	4.8 U	5.2 U	4.7 U	4.8 U	5.3 U	4.5 U
Total PAHs	--	µg/L	NA	ND	ND	ND	ND	ND	ND	2.6 J	ND	ND	ND

See notes on last page

Table 3
Groundwater Quality Data
2020 Periodic Review Report
NYSEG
Oneonta, New York

Location ID: Date Collected:	NYSDEC GW Stds & GV's	Units	MW-9502S										
			11/18/14	05/19/15	11/17/15	05/10/16	11/15/16	05/16/17	11/07/17	05/15/18	11/14/18	05/21/19	11/05/19
BTEX													
Benzene	1	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	5	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
m/p-Xylenes	--	µg/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
o-Xylene	--	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	5	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes (total)	5	µg/L	2 U	2 U	2 U	2 U	2 U	2 U	3 U	2 U	2 U	2 U	2 U
Total BTEX	--	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PAHs													
Acenaphthene	20	µg/L	4.7 U	4.8 U	5 U	4.7 U	4.6 U	5 U	5 U	5 U	5 U	5 U	5 U
Acenaphthylene	--	µg/L	4.7 U	4.8 U	5 U	4.7 U	4.6 U	5 U	5 U	5 U	5 U	5 U	5 U
Anthracene	50	µg/L	4.7 U	4.8 U	5 U	4.7 U	4.6 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzo(a)anthracene	0.002	µg/L	4.7 U	4.8 U	5 U	4.7 U	4.6 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzo(a)pyrene	0	µg/L	4.7 U	4.8 U	5 U	4.7 U	4.6 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzo(b)fluoranthene	0.002	µg/L	4.7 U	4.8 U	5 U	4.7 U	4.6 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzo(g,h,i)perylene	--	µg/L	4.7 U	4.8 UJ	5 U	4.7 U	0.38 J	5 U	5 U	5 U	5 U	5 U	5 U
Benzo(k)fluoranthene	0.002	ug/L	4.7 U	4.8 U	5 U	4.7 U	4.6 U	5 U	5 U	5 U	5 U	5 U	5 U
Chrysene	0.002	µg/L	4.7 UJ	4.8 U	5 U	4.7 U	4.6 U	5 U	5 U	5 U	5 U	5 U	5 U
Dibenzo(a,h)anthracene	--	ug/L	4.7 U	4.8 U	5 U	4.7 U	4.6 U	5 U	5 U	5 U	5 U	5 U	5 U
Fluoranthene	50	µg/L	4.7 U	4.8 U	5 U	4.7 U	4.6 U	5 U	5 U	5 U	5 U	5 U	5 U
Fluorene	50	µg/L	4.7 U	4.8 U	5 U	4.7 U	4.6 U	5 U	5 U	5 U	5 U	5 U	5 U
Indeno(1,2,3-cd)pyrene	0.002	µg/L	4.7 UJ	4.8 UJ	5 U	4.7 U	4.6 U	5 U	5 U	5 U	5 U	5 U	5 U
Naphthalene	10	µg/L	4.7 U	4.8 U	5 U	4.7 U	4.6 U	5 U	5 U	5 U	5 U	5 U	5 U
Phenanthrene	50	µg/L	4.7 U	4.8 U	5 U	4.7 U	4.6 U	5 U	5 U	5 U	5 U	5 U	5 U
Pyrene	50	µg/L	4.7 U	4.8 U	5 U	4.7 U	4.6 U	5 U	5 U	5 U	5 U	5 U	5 U
Total PAHs	--	µg/L	ND	ND	ND	ND	0.38 J	ND	ND	ND	ND	ND	ND

See notes on last page

Table 3
Groundwater Quality Data
2020 Periodic Review Report
NYSEG
Oneonta, New York

Location ID: Date Collected:	NYSDEC GW Stds & GVs	Units	MW-9502S		PTMW-0202								
			06/17/20	11/18/20	05/28/03	12/01/09	05/20/10	11/02/10	05/10/11	11/09/11	05/30/12	11/30/12	05/09/13
BTEX													
Benzene	1	µg/L	1 U	1 U	22	12	7.1	33	1.0 U	1.0 U	32	320 D	120
Ethylbenzene	5	µg/L	1 U	1 U	7.7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	12	2 U
m/p-Xylenes	--	µg/L	2 U	2 U	NA	2.0 U	2.0 U	1.4 J	2.0 U	2.0 U	2.0 U	1.2 J	4 U
o-Xylene	--	µg/L	1 U	1 U	NA	2.4	1.0 U	3.2	1.0 U	1.0 U	1.0 U	12	6.2
Toluene	5	µg/L	1 U	1 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.67 J	2 U
Xylenes (total)	5	µg/L	2 U	2 U	1.6 J	2.9	2.0 U	4.6	2.0 U	2.0 U	2.0 U	13	6.2
Total BTEX	--	µg/L	ND	ND	31 J	15	7.1	38 J	ND	ND	32	346 J	126
PAHs													
Acenaphthene	20	µg/L	5 U	5 U	52	39	34	42	23	41	35	55	43 J
Acenaphthylene	--	µg/L	5 U	5 U	1.2 J	0.47 U	0.48 U	0.40 J	4.8 U	0.46 J	5.3 U	0.41 J	R
Anthracene	50	µg/L	5 U	5 U	0.60 J	0.27 J	0.12 J	0.23 J	4.8 U	4.7 U	5.3 U	0.33 J	R
Benzo(a)anthracene	0.002	µg/L	5 U	5 U	1.0 U	0.47 U	0.48 U	0.48 U	4.8 U	4.7 U	5.3 U	4.7 U	0.34 J
Benzo(a)pyrene	0	µg/L	5 U	5 U	1.0 U	0.47 U	0.48 U	0.48 U	4.8 U	4.7 U	5.3 U	4.7 U	R
Benzo(b)fluoranthene	0.002	µg/L	5 U	5 U	1.0 U	0.47 U	0.48 U	0.48 U	4.8 U	4.7 U	5.3 U	4.7 U	0.32 J
Benzo(g,h,i)perylene	--	µg/L	5 U	5 U	10 U	0.47 U	0.48 U	0.48 U	4.8 U	4.7 U	5.3 U	4.7 U	R
Benzo(k)fluoranthene	0.002	ug/L	5 U	5 U	1 U	0.47 U	0.48 U	0.48 U	4.8 U	4.7 U	5.3 U	4.7 U	R
Chrysene	0.002	µg/L	5 U	5 U	10 U	0.47 U	0.48 U	0.48 U	4.8 U	4.7 U	5.3 U	4.7 U	R
Dibenzo(a,h)anthracene	--	ug/L	5 U	5 U	1 U	0.47 U	0.48 U	0.48 U	4.8 U	4.7 U	5.3 U	4.7 U	R
Fluoranthene	50	µg/L	5 U	5 U	0.50 J	0.56	0.45 J	0.88	4.8 U	4.7 U	5.3 U	0.41 J	R
Fluorene	50	µg/L	5 U	5 U	6.9 J	3.1	5.2	9.8	4.8 U	4.7	5.2 J	7.8	3.9 J
Indeno(1,2,3-cd)pyrene	0.002	µg/L	5 U	5 U	1.0 U	0.47 U	0.48 U	0.48 U	4.8 U	4.7 U	5.3 U	4.7 U	R
Naphthalene	10	µg/L	5 U	5 U	0.70 J	16	0.36 J	48	4.8 U	4.7 U	5.3 U	69	R
Phenanthrene	50	µg/L	5 UB	5 U	5.2 J	0.38 J	0.48 U	0.42 J	4.8 U	4.7 U	5.3 U	2.4 J	1.7 J
Pyrene	50	µg/L	5 U	5 U	0.50 J	0.55	0.45 J	0.85	4.8 U	0.85 J	5.3 U	0.44 J	0.71 J
Total PAHs	--	µg/L	ND	ND	68 J	60 J	41 J	100 J	23	47 J	40 J	136 J	50 J

See notes on last page

Table 3
Groundwater Quality Data
2020 Periodic Review Report
NYSEG
Oneonta, New York

Location ID: Date Collected:	NYSDEC GW Stds & GV's	Units	PTMW-0202										
			11/14/13	05/29/14	11/19/14	05/21/15	11/17/15	05/10/16	11/15/16	05/16/17	11/08/17	05/15/18	11/13/18
BTEX													
Benzene	1	µg/L	30	53	290 D	90	230	97	1 U	40	380	260	160
Ethylbenzene	5	µg/L	1 U	1 U	0.92 J	1 U	21	4 U	1 U	1 U	43	4 U	4 U
m/p-Xylenes	--	µg/L	2 U	2 U	2.6	2 U	8 U	8 U	2 U	2 U	3.8	8 U	8 U
o-Xylene	--	µg/L	1 U	1.6	7.5	1.9	7.2	4 U	1 U	2.7	17	4.9	5.3
Toluene	5	µg/L	1 U	1 U	1 U	1 U	4 U	4 U	1 U	0.52 J	0.86 J	4 U	4 U
Xylenes (total)	5	µg/L	2 U	1.6 J	10	1.9 J	7.2 J	8 U	2 U	2.7	21	4.9 J	5.3 J
Total BTEX	--	µg/L	30	54.6 J	301 J	91.9 J	258 J	97	ND	43.2 J	445 J	265 J	165 J
PAHs													
Acenaphthene	20	µg/L	20	43	61 J	40	20	39	4.6 U	57	86 D	63	88
Acenaphthylene	--	µg/L	5.5 U	0.4 J	230 U	0.43 J	4.7 U	4.8 U	4.6 U	5 U	0.8 J	0.62 J	5 U
Anthracene	50	µg/L	5.5 U	0.34 J	230 U	5.1 U	0.27 J	0.56 J	4.6 U	0.63 J	1.2 J	0.64 J	1.7 J
Benzo(a)anthracene	0.002	µg/L	5.5 U	4.6 U	230 U	5.1 U	4.7 U	4.8 U	4.6 U	5 U	5 U	5 U	5 U
Benzo(a)pyrene	0	µg/L	5.5 U	4.6 U	230 U	5.1 U	4.7 U	4.8 U	4.6 U	5 U	5 U	5 U	5 U
Benzo(b)fluoranthene	0.002	µg/L	5.5 U	4.6 U	230 U	5.1 U	4.7 U	4.8 U	4.6 U	5 U	5 U	5 U	5 U
Benzo(g,h,i)perylene	--	µg/L	5.5 U	4.6 U	230 U	5.1 U	4.7 U	4.8 U	4.6 U	5 U	5 U	5 U	5 U
Benzo(k)fluoranthene	0.002	ug/L	5.5 U	4.6 U	230 U	5.1 U	4.7 U	4.8 U	4.6 U	5 U	5 U	5 U	5 U
Chrysene	0.002	µg/L	5.5 U	4.6 U	230 UJ	5.1 U	4.7 U	4.8 U	4.6 U	5 U	5 U	5 U	5 U
Dibenzo(a,h)anthracene	--	ug/L	5.5 U	4.6 U	230 U	5.1 U	4.7 U	4.8 U	4.6 U	5 U	5 U	5 U	5 U
Fluoranthene	50	µg/L	0.5 J	0.56 J	230 U	5.1 U	0.44 J	0.6 J	4.6 U	0.63 J	0.93 J	0.55 J	1.6 J
Fluorene	50	µg/L	2.2 J	8.4	230 U	3.4 J	3.5 J	5.9	4.6 U	8	16	11	21
Indeno(1,2,3-cd)pyrene	0.002	µg/L	5.5 U	4.6 U	230 UJ	5.1 U	4.7 U	4.8 U	4.6 U	5 U	5 U	5 U	5 U
Naphthalene	10	µg/L	1.3 J	4.6 U	120 J	5.1 U	18	12	4.6 U	5 U	290 D	7.8	99 D
Phenanthrene	50	µg/L	5.5 U	1.5 J	230 U	0.89 J	1.1 J	2.4 J	4.6 U	2.6 J	4.8 J	2.1 J	7.8
Pyrene	50	µg/L	0.53 J	0.68 J	230 U	5.1 U	4.7 U	0.59 J	4.6 U	0.61 J	1 J	0.51 J	1.5 J
Total PAHs	--	µg/L	24.5 J	54.9 J	181 J	44.7 J	43.3 J	61.1 J	ND	69.5 J	401 J	86.2 J	221 DJ

See notes on last page

Table 3
Groundwater Quality Data
2020 Periodic Review Report
NYSEG
Oneonta, New York

Location ID: Date Collected:	NYSDEC GW Stds & GV's	Units	PTMW-0202			
			05/21/19	11/05/19	06/16/20	11/18/20
BTEX						
Benzene	1	µg/L	18	390	54	580 D
Ethylbenzene	5	µg/L	1 U	4 U	1 U	0.98 J
m/p-Xylenes	--	µg/L	2 U	2.9 J	2 U	2.9
o-Xylene	--	µg/L	1.8	8.3	0.97 J	11
Toluene	5	µg/L	1 U	4 U	1 U	0.64 J
Xylenes (total)	5	µg/L	1.8 J	11	0.97 J	14
Total BTEX	--	µg/L	19.8 J	401	55.0 J	596 DJ
PAHs						
Acenaphthene	20	µg/L	40	77 D	41	73
Acenaphthylene	--	µg/L	5 U	5 U	25 U	25 U
Anthracene	50	µg/L	0.71 J	1.3 J	25 U	25 U
Benzo(a)anthracene	0.002	µg/L	5 U	5 U	25 U	25 U
Benzo(a)pyrene	0	µg/L	5 U	5 U	25 U	25 U
Benzo(b)fluoranthene	0.002	µg/L	5 U	5 U	25 U	25 U
Benzo(g,h,i)perylene	--	µg/L	5 U	5 U	25 U	25 U
Benzo(k)fluoranthene	0.002	ug/L	5 U	5 U	25 U	25 U
Chrysene	0.002	µg/L	5 U	5 U	25 U	25 U
Dibenzo(a,h)anthracene	--	ug/L	5 U	5 U	25 U	25 U
Fluoranthene	50	µg/L	0.81 J	1.2 J	25 U	25 U
Fluorene	50	µg/L	9.7	18	4.1 J	15 J
Indeno(1,2,3-cd)pyrene	0.002	µg/L	5 U	5 U	25 U	25 U
Naphthalene	10	µg/L	5 U	90 D	25 U	110
Phenanthrene	50	µg/L	0.93 J	2.3 J	25 U	3.2 J
Pyrene	50	µg/L	0.87 J	1.7 J	25 U	25 U
Total PAHs	--	µg/L	53 J	192 J	45.1 J	201 J

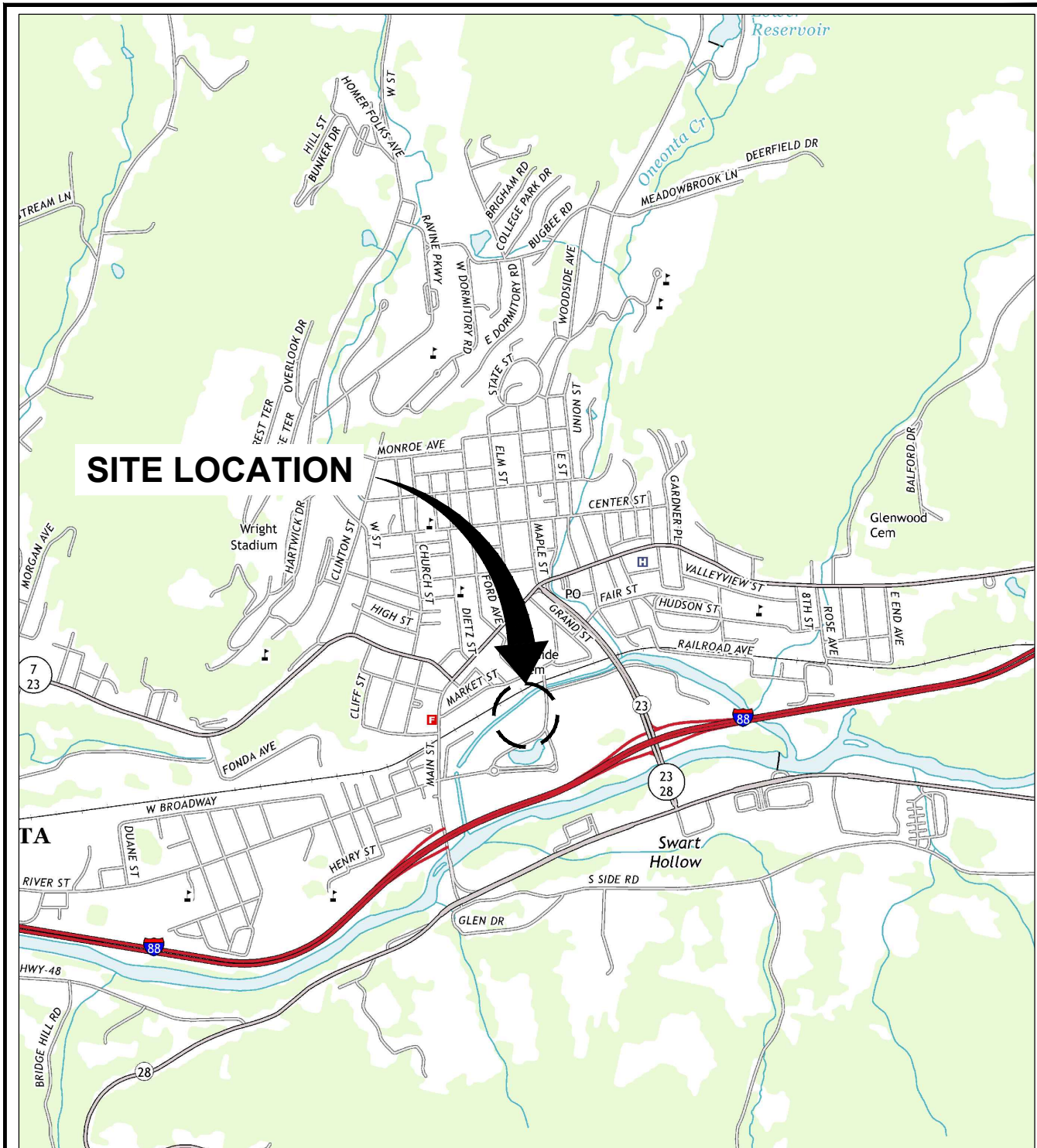
See notes on last page

Table 3
Groundwater Quality Data
2020 Periodic Review Report
NYSEG
Oneonta, New York

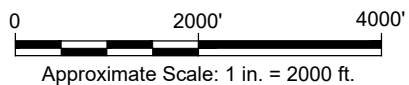
Notes:

1. Samples were submitted to Eurofins TestAmerica, Amherst, New York for analysis using USEPA SW-846 Methods 8260B (VOCs) and 8270C (SVOCs).
2. D - Compound quantitated using a secondary dilution.
3. J - Indicates that the analyte was detected at a concentration less than the practical quantitation limit (PQL).
4. U - Indicates the constituent was not detected at the PQL. The value preceding the U indicates the PQL.
5. B - Indicates an estimated values between the instrument detection limit (IDL) and the PQL.
6. ND - not detected
7. Sample results detected above the Method Detection Limit (MDL) are presented in bold font.
8. Shading indicates that the result exceeds the NYSDEC TOGS 1.1.1 Water Quality Standard or Guidance Value.
9. Only detected Benzene, Ethylbenzene, Toluene, Xylenes [BTEX] and Polycyclic Aromatic Hydrocarbons [PAH] are presented.
10. NA - not analyzed
11. For groundwater samples where the laboratory reported both the individual congeners for xylenes (m/p- & o-) plus a value for total xylenes, total BTEX calculations used the laboratory reported value for total xylenes.

Figures



REFERENCE: BASE MAP USGS 7.5. MIN. TOPO. QUAD., ONEONTA, NY, 2013

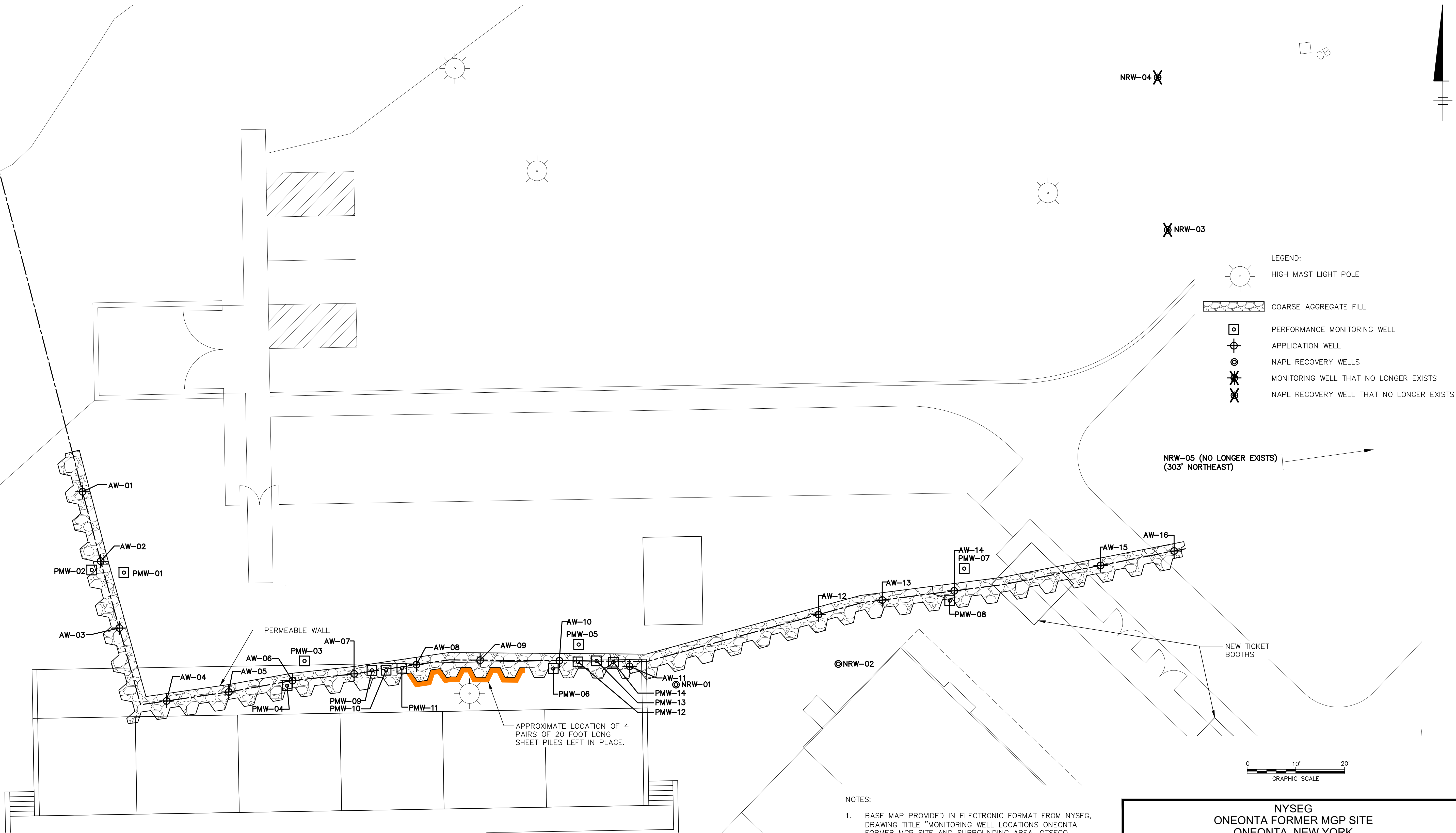


NYSEG/ONEONTA, FORMER MGP SITE
 ONEONTA, NEW YORK
 PERIODIC REVIEW REPORT

SITE LOCATION MAP



FIGURE
 1



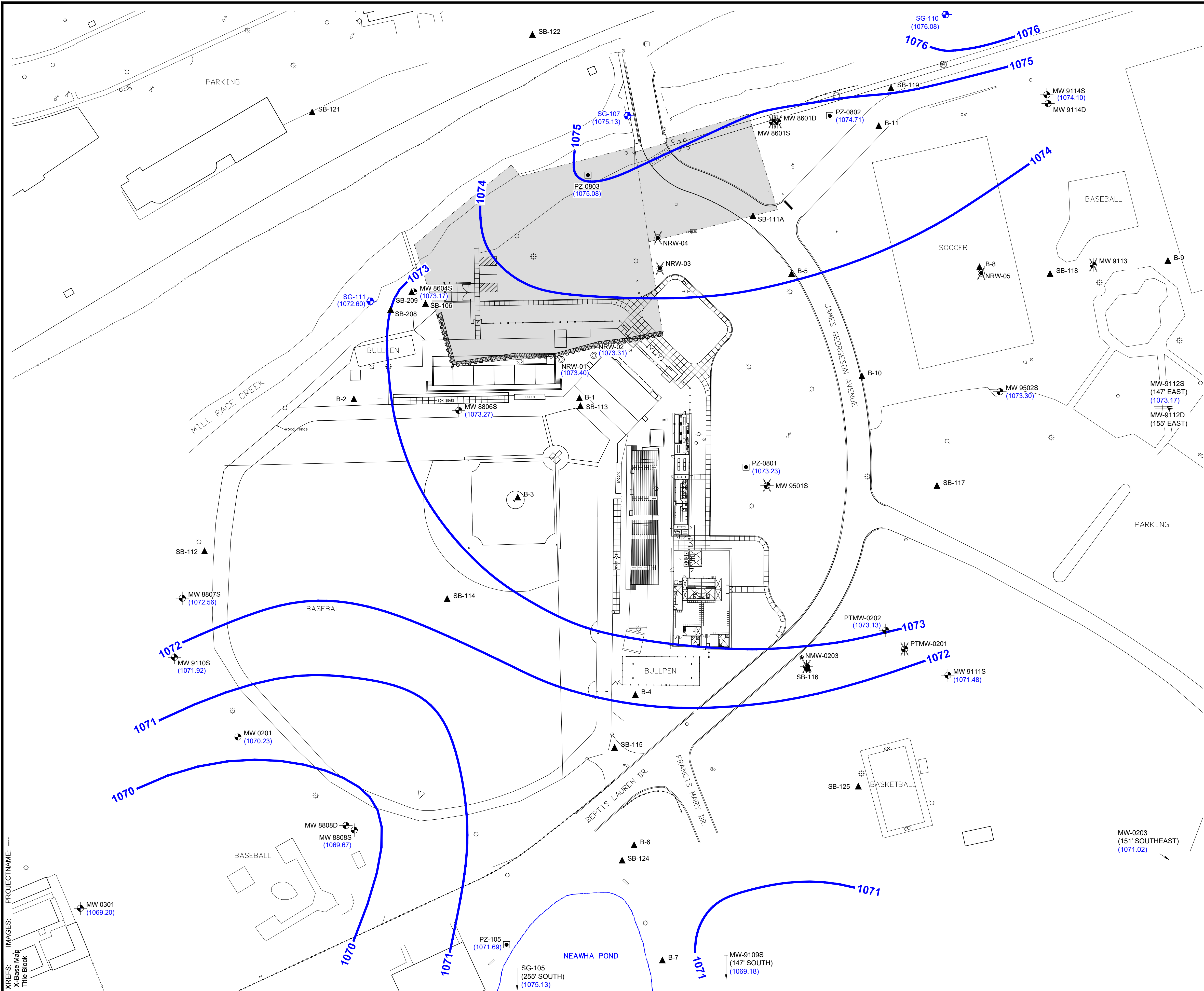
NOTES:

1. BASE MAP PROVIDED IN ELECTRONIC FORMAT FROM NYSEG, DRAWING TITLE "MONITORING WELL LOCATIONS ONEONTA FORMER MGP SITE AND SURROUNDING AREA, OTSEGO COUNTY, NEW YORK", AT A SCALE OF 1"=60', DATED 2/18/02.
2. DAMASCHKE FIELD RENOVATIONS BASED DRAWING TITLE "AIR MONITORING LOCATIONS ONEONTA MGP" FROM NYSEG DATED 6/27/07 AND AERIAL PHOTOGRAPHS.
3. WALL AND WELL LOCATIONS PROVIDED IN ELECTRONIC FORMAT FROM NYSEG, DRAWING TITLE "NEW WELL LOCATIONS", AT A SCALE OF 1"=30', DATED 3/18/08.
4. APPROXIMATE LOCATION OF SHEET PILES LEFT IN PLACE OBTAINED FROM EARTH TECH CORRESPONDENCE DATED JULY 18, 2007.

NYSEG
ONEONTA FORMER MGP SITE
ONEONTA, NEW YORK
PERIODIC REVIEW REPORT

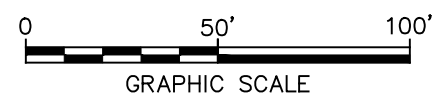
PERMEABLE WALL AND
ASSOCIATED WELLS

XREFS: IMAGES: PROJECTNAME: Title Block



- LEGEND:
- HIGH MAST LIGHT POLE
 - PERMEABLE WALL LOCATION (APPROXIMATE)
 - FORMER MGP EXCAVATION LIMITS (PROVIDED BY NYSEG)
 - NAPL RECOVERY WELL
 - STAFF GAUGE
 - MONITORING WELL
 - SOIL BORING
 - WELL EQUIPPED WITH SUMP
 - PIEZOMETER
 - MONITORING WELL THAT NO LONGER EXISTS
 - NAPL RECOVERY WELL THAT NO LONGER EXISTS
 - 1073 WATER TABLE ELEVATION (FAMS)
 - 1073.13 GROUNDWATER ELEVATION (FAMS)

- NOTES:
- BASE MAP PROVIDED IN ELECTRONIC FORMAT FROM NYSEG, DRAWING TITLE "MONITORING WELL LOCATIONS ONEONTA FORMER MGP SITE AND SURROUNDING AREA, OTSEGO COUNTY, NEW YORK, AT A SCALE OF 1"=60', DATED 2/18/02.
 - DAMASCHKE FIELD RENOVATIONS BASED DRAWING TITLE "AIR MONITORING LOCATIONS ONEONTA MGP" FROM NYSEG DATED 6/27/07 AND AERIAL PHOTOGRAPHS.
 - ALL ELEVATIONS ARE REFERENCED TO NGVD 1929.
 - FAMS - FEET ABOVE MEAN SEA LEVEL.



NYSEG
ONEONTA FORMER MGP SITE
ONEONTA, NEW YORK
PERIODIC REVIEW REPORT

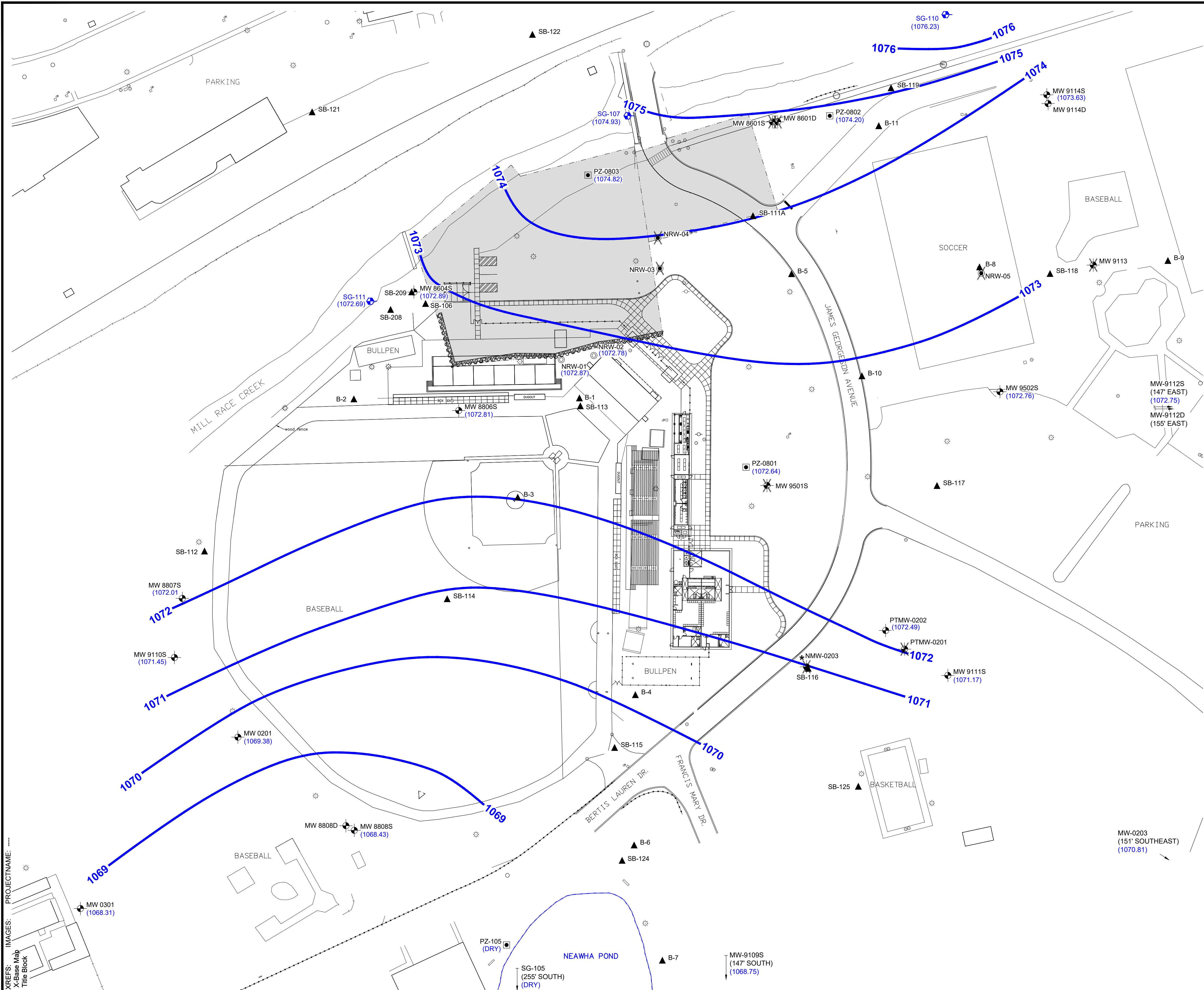
POTENTIOMETRIC SURFACE -
JUNE 15, 2020

ARCADIS Design & Consultancy
for natural and built assets

FIGURE
3

CITY: SYRACUSE NY DIV/GROUP: EnvCAD DB: A. SCHILLING R. BASSETT, E. KRAHMER PIC: K. WHITE PM/TM: B. AHRENS TR: N. BEYRL L YR: ONE*-OFF-REF (FRZ)
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PROJECT NAME: XREFS: IMAGES: X-Base Map Title Block



- LEGEND:
- HIGH MAST LIGHT POLE
 - PERMEABLE WALL LOCATION (APPROXIMATE)
 - FORMER MGP EXCAVATION LIMITS (PROVIDED BY NYSEG)
 - NAPL RECOVERY WELL
 - STAFF GAUGE
 - MONITORING WELL
 - SOIL BORING
 - WELL EQUIPPED WITH SUMP
 - PIEZOMETER
 - MONITORING WELL THAT NO LONGER EXISTS
 - NAPL RECOVERY WELL THAT NO LONGER EXISTS
 - 1073 WATER TABLE ELEVATION (FAMSL)
 - GROUNDWATER ELEVATION (FAMSL)

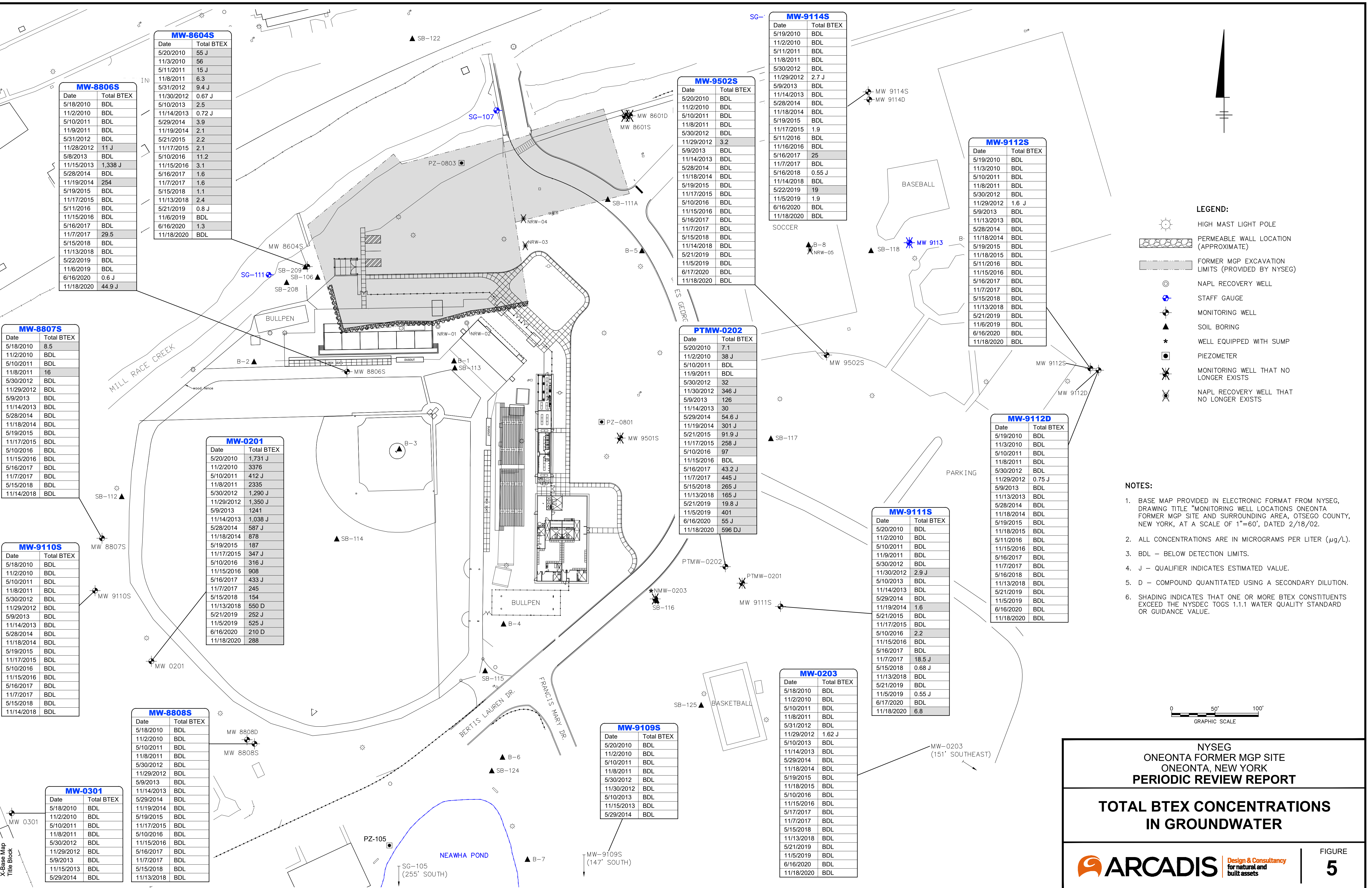
- NOTES:
- BASE MAP PROVIDED IN ELECTRONIC FORMAT FROM NYSEG, DRAWING TITLE "MONITORING WELL LOCATIONS ONEONTA FORMER MGP SITE AND SURROUNDING AREA, OTSEGO COUNTY, NEW YORK, AT A SCALE OF 1"=60', DATED 2/18/02.
 - DAMASCHKE FIELD RENOVATIONS BASED DRAWING TITLE "AIR MONITORING LOCATIONS ONEONTA MGP" FROM NYSEG DATED 6/27/07 AND AERIAL PHOTOGRAPHS.
 - ALL ELEVATIONS ARE REFERENCED TO NGVD 1929.
 - FAMSL – FEET ABOVE MEAN SEA LEVEL.

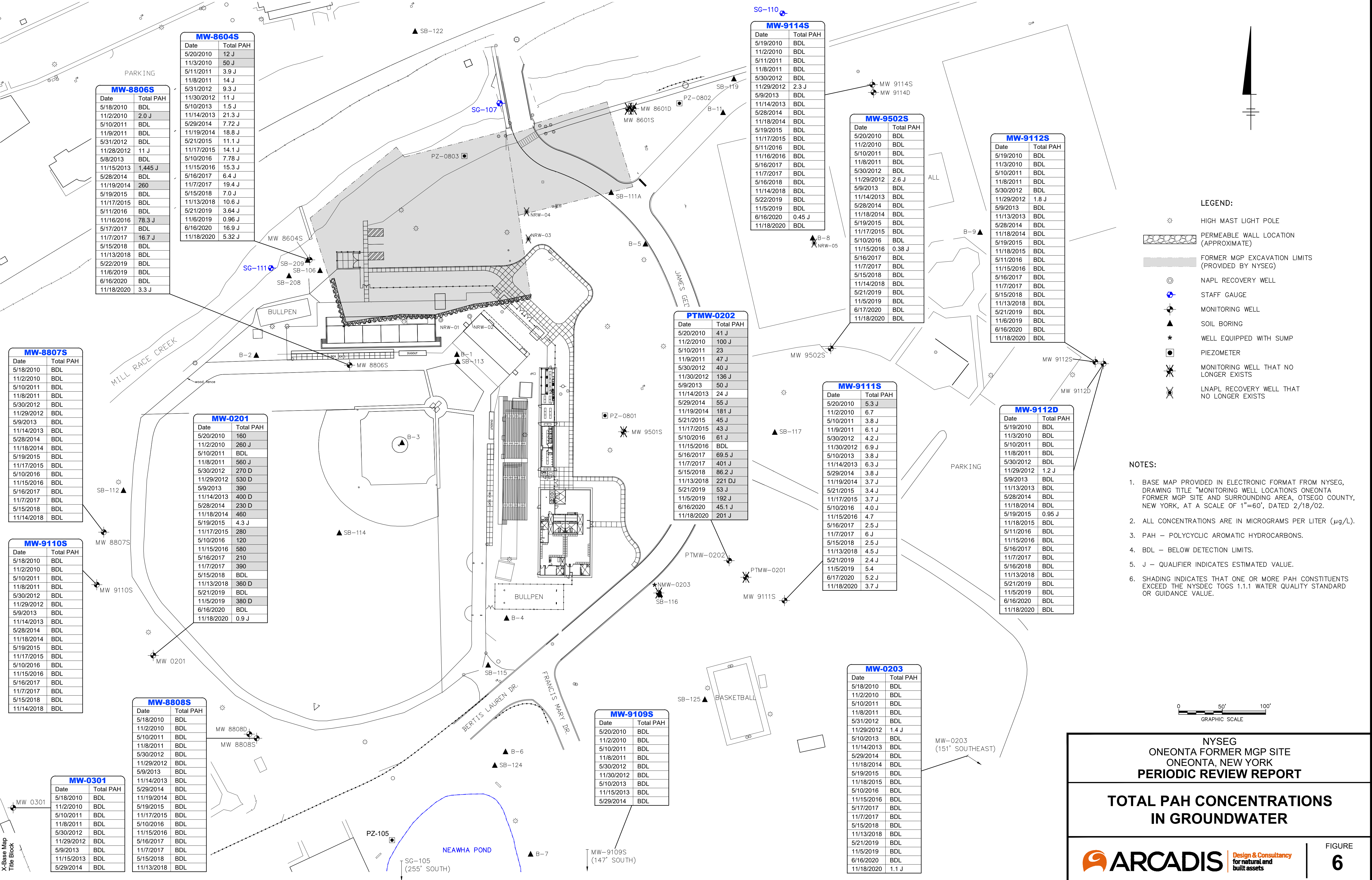
NYSEG
ONEONTA FORMER MGP SITE
ONEONTA, NEW YORK
PERIODIC REVIEW REPORT

POTENTIOMETRIC SURFACE -
NOVEMBER 17, 2020

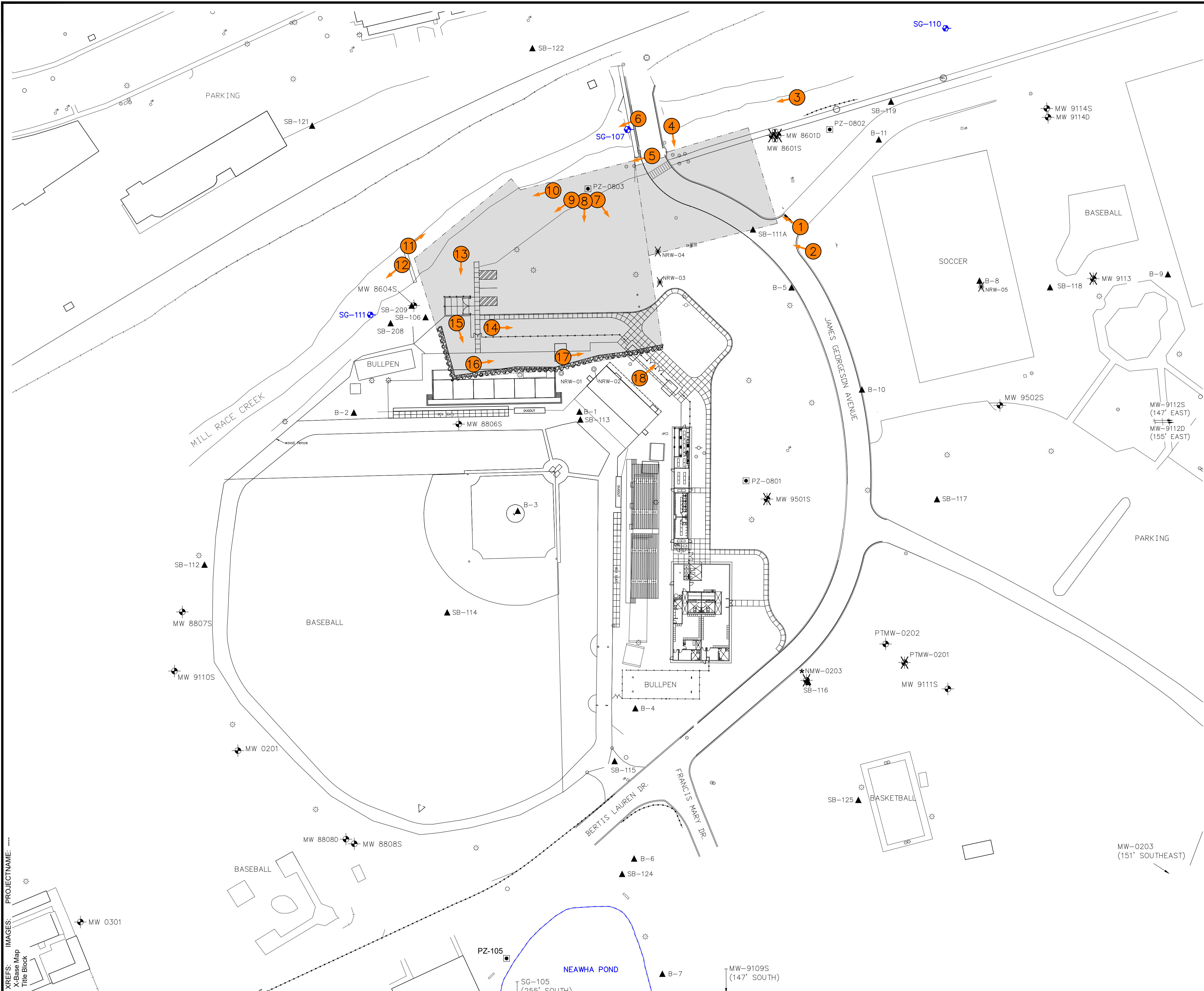
ARCADIS Design & Consultancy
for natural and built assets

FIGURE
4





XREFS: IMAGES: PROJECTNAME: X-Base Map Title Block



- LEGEND:
- HIGH MAST LIGHT POLE
 - PERMEABLE WALL LOCATION (APPROXIMATE)
 - FORMER MGP EXCAVATION LIMITS (PROVIDED BY NYSEG)
 - NAPL RECOVERY WELL
 - STAFF GAUGE
 - MONITORING WELL
 - SOIL BORING
 - WELL EQUIPPED WITH SUMP
 - PIEZOMETER
 - MONITORING WELL THAT NO LONGER EXISTS
 - NAPL RECOVERY WELL THAT NO LONGER EXISTS
 - PHOTOGRAPH LOCATION AND DIRECTION

- NOTES:
1. BASE MAP PROVIDED IN ELECTRONIC FORMAT FROM NYSEG, DRAWING TITLE "MONITORING WELL LOCATIONS ONEONTA FORMER MGP SITE AND SURROUNDING AREA, OTSEGO COUNTY, NEW YORK, AT A SCALE OF 1"=60', DATED 2/18/02.
 2. DAMASCHKE FIELD RENOVATIONS BASED DRAWING TITLE "AIR MONITORING LOCATIONS ONEONTA MGP" FROM NYSEG DATED 6/27/07 AND AERIAL PHOTOGRAPHS.



NYSEG
ONEONTA FORMER MGP SITE
ONEONTA, NEW YORK
PERIODIC REVIEW REPORT

PHOTOGRAPH ORIENTATION

Appendix A

Absorbent Socks Photographic Log

PHOTOGRAPH LOG

NYSEG
Oneonta Former MGP Site
Oneonta, New York



Photograph: 1

Description:

Bottom 6" of canister coated in DNAPL.
Outside of sorbent sock at bottom end is partially coated in DNAPL.

Location:

AW-12

Photograph taken by:

RDC

Date: 6/22/2020



Photograph: 2

Description:

Inside of sorbent sock installed at bottom of well did not absorb DNAPL.

Location:

AW-12

Photograph taken by:

RDC

Date: 6/22/2020

PHOTOGRAPH LOG

NYSEG
Oneonta Former MGP Site
Oneonta, New York



Photograph: 3

Description:

Bottom 3" of cannister coated in DNAPL.
Outside of sorbent sock at bottom end is partially coated in DNAPL.

Location:

AW-12

Photograph taken by:

RDC

Date: 11/17/2020



Photograph: 4

Description:

Inside of sorbent sock installed at bottom of well did not absorb DNAPL.

Location:

AW-12

Photograph taken by:

RDC

Date: 11/17/2020

Appendix B

Laboratory Data Packages

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

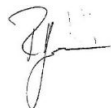
Laboratory Job ID: 480-171345-1

Client Project/Site: NYSEG - Oneonta Former MGP

For:

New York State Electric & Gas
18 Link Drive
Binghamton, New York 13902

Attn: Mr. John J Ruspantini



Authorized for release by:

6/26/2020 10:24:03 AM

Rebecca Jones, Project Management Assistant I

rebecca.jones@testamericainc.com

Designee for

John Schove, Project Manager II

(716)504-9838

john.schove@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	7
Surrogate Summary	17
QC Sample Results	19
QC Association Summary	24
Lab Chronicle	26
Certification Summary	29
Method Summary	30
Sample Summary	31
Chain of Custody	32
Receipt Checklists	34



Definitions/Glossary

Client: New York State Electric & Gas
Project/Site: NYSEG - Oneonta Former MGP

Job ID: 480-171345-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: New York State Electric & Gas
Project/Site: NYSEG - Oneonta Former MGP

Job ID: 480-171345-1

Job ID: 480-171345-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-171345-1

Comments

No additional comments.

Receipt

The samples were received on 6/18/2020 8:00 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.2° C.

GC/MS VOA

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-0201 (480-171345-4). Elevated reporting limits (RLs) are provided.

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

GC/MS Semi VOA

Method 8270D: The following samples were diluted due to the nature of the sample matrix: MW-0201 (480-171345-4), PTMW-0202 (480-171345-10) and DUP-061620 (480-171345-11). Elevated reporting limits (RLs) are provided.

Method 8270D: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: MW-9502S MS (480-171345-9[MS]) and MW-9502S MSD (480-171345-9[MSD]). These results have been reported and qualified.

Method 8270D: The following samples required a dilution due to the nature of the sample matrix: MW-0201 (480-171345-4) and DUP-061620 (480-171345-11). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

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

Organic Prep

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

Detection Summary

Client: New York State Electric & Gas
Project/Site: NYSEG - Oneonta Former MGP

Job ID: 480-171345-1

Client Sample ID: MW-8604S

Lab Sample ID: 480-171345-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.3		1.0	0.41	ug/L	1		8260C	Total/NA
Acenaphthene	11		5.0	0.41	ug/L	1		8270D	Total/NA
Acenaphthylene	0.78	J	5.0	0.38	ug/L	1		8270D	Total/NA
Fluoranthene	0.45	J	5.0	0.40	ug/L	1		8270D	Total/NA
Fluorene	1.6	J	5.0	0.36	ug/L	1		8270D	Total/NA
Naphthalene	3.1	J	5.0	0.76	ug/L	1		8270D	Total/NA
Phenanthrene	1.5	J B	5.0	0.44	ug/L	1		8270D	Total/NA

Client Sample ID: MW-9114S

Lab Sample ID: 480-171345-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	0.45	J	5.0	0.40	ug/L	1		8270D	Total/NA
Phenanthrene	1.4	J B	5.0	0.44	ug/L	1		8270D	Total/NA

Client Sample ID: MW-8806S

Lab Sample ID: 480-171345-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.60	J	1.0	0.41	ug/L	1		8260C	Total/NA
Phenanthrene	1.3	J B	5.0	0.44	ug/L	1		8270D	Total/NA

Client Sample ID: MW-0201

Lab Sample ID: 480-171345-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	100	E	1.0	0.41	ug/L	1		8260C	Total/NA
Toluene	2.4		1.0	0.51	ug/L	1		8260C	Total/NA
Ethylbenzene	60		1.0	0.74	ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	9.7		2.0	0.66	ug/L	1		8260C	Total/NA
o-Xylene	46		1.0	0.76	ug/L	1		8260C	Total/NA
Xylenes, Total	56		2.0	0.66	ug/L	1		8260C	Total/NA
Benzene - DL	92		2.0	0.82	ug/L	2		8260C	Total/NA
Toluene - DL	2.4		2.0	1.0	ug/L	2		8260C	Total/NA
Ethylbenzene - DL	56		2.0	1.5	ug/L	2		8260C	Total/NA
m-Xylene & p-Xylene - DL	8.8		4.0	1.3	ug/L	2		8260C	Total/NA
o-Xylene - DL	44		2.0	1.5	ug/L	2		8260C	Total/NA
Xylenes, Total - DL	53		4.0	1.3	ug/L	2		8260C	Total/NA

Client Sample ID: MW-9111S

Lab Sample ID: 480-171345-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	4.7	J	5.0	0.41	ug/L	1		8270D	Total/NA
Fluoranthene	0.48	J	5.0	0.40	ug/L	1		8270D	Total/NA
Phenanthrene	1.5	J B	5.0	0.44	ug/L	1		8270D	Total/NA

Client Sample ID: MW-0203

Lab Sample ID: 480-171345-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	1.3	J B	5.4	0.48	ug/L	1		8270D	Total/NA

Client Sample ID: MW-9112S

Lab Sample ID: 480-171345-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	1.3	J B	5.0	0.44	ug/L	1		8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Detection Summary

Client: New York State Electric & Gas
Project/Site: NYSEG - Oneonta Former MGP

Job ID: 480-171345-1

Client Sample ID: MW-9112D

Lab Sample ID: 480-171345-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	1.3	J B	5.0	0.44	ug/L	1		8270D	Total/NA

Client Sample ID: MW-9502S

Lab Sample ID: 480-171345-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	1.3	J B	5.0	0.44	ug/L	1		8270D	Total/NA

Client Sample ID: PTMW-0202

Lab Sample ID: 480-171345-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	54		1.0	0.41	ug/L	1		8260C	Total/NA
o-Xylene	0.97	J	1.0	0.76	ug/L	1		8260C	Total/NA
Xylenes, Total	0.97	J	2.0	0.66	ug/L	1		8260C	Total/NA
Acenaphthene	41		25	2.1	ug/L	5		8270D	Total/NA
Fluorene	4.1	J	25	1.8	ug/L	5		8270D	Total/NA

Client Sample ID: DUP-061620

Lab Sample ID: 480-171345-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	55		1.0	0.41	ug/L	1		8260C	Total/NA
o-Xylene	0.90	J	1.0	0.76	ug/L	1		8260C	Total/NA
Xylenes, Total	0.90	J	2.0	0.66	ug/L	1		8260C	Total/NA
Acenaphthene	49	J	100	8.2	ug/L	20		8270D	Total/NA

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-171345-12

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State Electric & Gas
Project/Site: NYSEG - Oneonta Former MGP

Job ID: 480-171345-1

Client Sample ID: MW-8604S

Lab Sample ID: 480-171345-1

Date Collected: 06/16/20 10:10

Matrix: Water

Date Received: 06/18/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.3		1.0	0.41	ug/L			06/18/20 22:37	1
Toluene	ND		1.0	0.51	ug/L			06/18/20 22:37	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/18/20 22:37	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			06/18/20 22:37	1
o-Xylene	ND		1.0	0.76	ug/L			06/18/20 22:37	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/18/20 22:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		77 - 120		06/18/20 22:37	1
Toluene-d8 (Surr)	97		80 - 120		06/18/20 22:37	1
4-Bromofluorobenzene (Surr)	105		73 - 120		06/18/20 22:37	1
Dibromofluoromethane (Surr)	110		75 - 123		06/18/20 22:37	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	11		5.0	0.41	ug/L		06/20/20 06:53	06/24/20 17:17	1
Acenaphthylene	0.78	J	5.0	0.38	ug/L		06/20/20 06:53	06/24/20 17:17	1
Anthracene	ND		5.0	0.28	ug/L		06/20/20 06:53	06/24/20 17:17	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		06/20/20 06:53	06/24/20 17:17	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		06/20/20 06:53	06/24/20 17:17	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		06/20/20 06:53	06/24/20 17:17	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		06/20/20 06:53	06/24/20 17:17	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		06/20/20 06:53	06/24/20 17:17	1
Chrysene	ND		5.0	0.33	ug/L		06/20/20 06:53	06/24/20 17:17	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		06/20/20 06:53	06/24/20 17:17	1
Fluoranthene	0.45	J	5.0	0.40	ug/L		06/20/20 06:53	06/24/20 17:17	1
Fluorene	1.6	J	5.0	0.36	ug/L		06/20/20 06:53	06/24/20 17:17	1
Indeno(1,2,3-c,d)pyrene	ND		5.0	0.47	ug/L		06/20/20 06:53	06/24/20 17:17	1
Naphthalene	3.1	J	5.0	0.76	ug/L		06/20/20 06:53	06/24/20 17:17	1
Phenanthrene	1.5	J B	5.0	0.44	ug/L		06/20/20 06:53	06/24/20 17:17	1
Pyrene	ND		5.0	0.34	ug/L		06/20/20 06:53	06/24/20 17:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	95		46 - 120	06/20/20 06:53	06/24/20 17:17	1
2-Fluorobiphenyl	101		48 - 120	06/20/20 06:53	06/24/20 17:17	1
p-Terphenyl-d14	95		60 - 148	06/20/20 06:53	06/24/20 17:17	1

Client Sample ID: MW-9114S

Lab Sample ID: 480-171345-2

Date Collected: 06/16/20 12:10

Matrix: Water

Date Received: 06/18/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			06/18/20 23:00	1
Toluene	ND		1.0	0.51	ug/L			06/18/20 23:00	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/18/20 23:00	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			06/18/20 23:00	1
o-Xylene	ND		1.0	0.76	ug/L			06/18/20 23:00	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/18/20 23:00	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State Electric & Gas
Project/Site: NYSEG - Oneonta Former MGP

Job ID: 480-171345-1

Client Sample ID: MW-9114S

Lab Sample ID: 480-171345-2

Date Collected: 06/16/20 12:10

Matrix: Water

Date Received: 06/18/20 08:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		77 - 120		06/18/20 23:00	1
Toluene-d8 (Surr)	96		80 - 120		06/18/20 23:00	1
4-Bromofluorobenzene (Surr)	103		73 - 120		06/18/20 23:00	1
Dibromofluoromethane (Surr)	111		75 - 123		06/18/20 23:00	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.41	ug/L		06/20/20 06:53	06/24/20 17:46	1
Acenaphthylene	ND		5.0	0.38	ug/L		06/20/20 06:53	06/24/20 17:46	1
Anthracene	ND		5.0	0.28	ug/L		06/20/20 06:53	06/24/20 17:46	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		06/20/20 06:53	06/24/20 17:46	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		06/20/20 06:53	06/24/20 17:46	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		06/20/20 06:53	06/24/20 17:46	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		06/20/20 06:53	06/24/20 17:46	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		06/20/20 06:53	06/24/20 17:46	1
Chrysene	ND		5.0	0.33	ug/L		06/20/20 06:53	06/24/20 17:46	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		06/20/20 06:53	06/24/20 17:46	1
Fluoranthene	0.45	J	5.0	0.40	ug/L		06/20/20 06:53	06/24/20 17:46	1
Fluorene	ND		5.0	0.36	ug/L		06/20/20 06:53	06/24/20 17:46	1
Indeno(1,2,3-c,d)pyrene	ND		5.0	0.47	ug/L		06/20/20 06:53	06/24/20 17:46	1
Naphthalene	ND		5.0	0.76	ug/L		06/20/20 06:53	06/24/20 17:46	1
Phenanthrene	1.4	J B	5.0	0.44	ug/L		06/20/20 06:53	06/24/20 17:46	1
Pyrene	ND		5.0	0.34	ug/L		06/20/20 06:53	06/24/20 17:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	99		46 - 120	06/20/20 06:53	06/24/20 17:46	1
2-Fluorobiphenyl	101		48 - 120	06/20/20 06:53	06/24/20 17:46	1
p-Terphenyl-d14	97		60 - 148	06/20/20 06:53	06/24/20 17:46	1

Client Sample ID: MW-8806S

Lab Sample ID: 480-171345-3

Date Collected: 06/16/20 10:10

Matrix: Water

Date Received: 06/18/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.60	J	1.0	0.41	ug/L			06/18/20 23:23	1
Toluene	ND		1.0	0.51	ug/L			06/18/20 23:23	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/18/20 23:23	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			06/18/20 23:23	1
o-Xylene	ND		1.0	0.76	ug/L			06/18/20 23:23	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/18/20 23:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		77 - 120		06/18/20 23:23	1
Toluene-d8 (Surr)	98		80 - 120		06/18/20 23:23	1
4-Bromofluorobenzene (Surr)	105		73 - 120		06/18/20 23:23	1
Dibromofluoromethane (Surr)	111		75 - 123		06/18/20 23:23	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.41	ug/L		06/20/20 06:53	06/24/20 18:16	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State Electric & Gas
Project/Site: NYSEG - Oneonta Former MGP

Job ID: 480-171345-1

Client Sample ID: MW-8806S

Lab Sample ID: 480-171345-3

Date Collected: 06/16/20 10:10

Matrix: Water

Date Received: 06/18/20 08:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	ND		5.0	0.38	ug/L		06/20/20 06:53	06/24/20 18:16	1
Anthracene	ND		5.0	0.28	ug/L		06/20/20 06:53	06/24/20 18:16	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		06/20/20 06:53	06/24/20 18:16	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		06/20/20 06:53	06/24/20 18:16	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		06/20/20 06:53	06/24/20 18:16	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		06/20/20 06:53	06/24/20 18:16	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		06/20/20 06:53	06/24/20 18:16	1
Chrysene	ND		5.0	0.33	ug/L		06/20/20 06:53	06/24/20 18:16	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		06/20/20 06:53	06/24/20 18:16	1
Fluoranthene	ND		5.0	0.40	ug/L		06/20/20 06:53	06/24/20 18:16	1
Fluorene	ND		5.0	0.36	ug/L		06/20/20 06:53	06/24/20 18:16	1
Indeno(1,2,3-c,d)pyrene	ND		5.0	0.47	ug/L		06/20/20 06:53	06/24/20 18:16	1
Naphthalene	ND		5.0	0.76	ug/L		06/20/20 06:53	06/24/20 18:16	1
Phenanthrene	1.3	J B	5.0	0.44	ug/L		06/20/20 06:53	06/24/20 18:16	1
Pyrene	ND		5.0	0.34	ug/L		06/20/20 06:53	06/24/20 18:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	97		46 - 120	06/20/20 06:53	06/24/20 18:16	1
2-Fluorobiphenyl	98		48 - 120	06/20/20 06:53	06/24/20 18:16	1
p-Terphenyl-d14	94		60 - 148	06/20/20 06:53	06/24/20 18:16	1

Client Sample ID: MW-0201

Lab Sample ID: 480-171345-4

Date Collected: 06/16/20 11:30

Matrix: Water

Date Received: 06/18/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	100	E	1.0	0.41	ug/L			06/19/20 11:52	1
Toluene	2.4		1.0	0.51	ug/L			06/19/20 11:52	1
Ethylbenzene	60		1.0	0.74	ug/L			06/19/20 11:52	1
m-Xylene & p-Xylene	9.7		2.0	0.66	ug/L			06/19/20 11:52	1
o-Xylene	46		1.0	0.76	ug/L			06/19/20 11:52	1
Xylenes, Total	56		2.0	0.66	ug/L			06/19/20 11:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		77 - 120		06/19/20 11:52	1
Toluene-d8 (Surr)	96		80 - 120		06/19/20 11:52	1
4-Bromofluorobenzene (Surr)	104		73 - 120		06/19/20 11:52	1
Dibromofluoromethane (Surr)	110		75 - 123		06/19/20 11:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	92		2.0	0.82	ug/L			06/20/20 11:03	2
Toluene	2.4		2.0	1.0	ug/L			06/20/20 11:03	2
Ethylbenzene	56		2.0	1.5	ug/L			06/20/20 11:03	2
m-Xylene & p-Xylene	8.8		4.0	1.3	ug/L			06/20/20 11:03	2
o-Xylene	44		2.0	1.5	ug/L			06/20/20 11:03	2
Xylenes, Total	53		4.0	1.3	ug/L			06/20/20 11:03	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	118		77 - 120		06/20/20 11:03	2

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State Electric & Gas
Project/Site: NYSEG - Oneonta Former MGP

Job ID: 480-171345-1

Client Sample ID: MW-0201

Lab Sample ID: 480-171345-4

Date Collected: 06/16/20 11:30

Matrix: Water

Date Received: 06/18/20 08:00

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		80 - 120		06/20/20 11:03	2
4-Bromofluorobenzene (Surr)	107		73 - 120		06/20/20 11:03	2
Dibromofluoromethane (Surr)	109		75 - 123		06/20/20 11:03	2

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		110	8.7	ug/L		06/20/20 06:53	06/24/20 18:45	20
Acenaphthylene	ND		110	8.1	ug/L		06/20/20 06:53	06/24/20 18:45	20
Anthracene	ND		110	6.0	ug/L		06/20/20 06:53	06/24/20 18:45	20
Benzo(a)anthracene	ND		110	7.7	ug/L		06/20/20 06:53	06/24/20 18:45	20
Benzo(a)pyrene	ND		110	10	ug/L		06/20/20 06:53	06/24/20 18:45	20
Benzo(b)fluoranthene	ND		110	7.2	ug/L		06/20/20 06:53	06/24/20 18:45	20
Benzo(g,h,i)perylene	ND		110	7.4	ug/L		06/20/20 06:53	06/24/20 18:45	20
Benzo(k)fluoranthene	ND		110	16	ug/L		06/20/20 06:53	06/24/20 18:45	20
Chrysene	ND		110	7.0	ug/L		06/20/20 06:53	06/24/20 18:45	20
Dibenz(a,h)anthracene	ND		110	8.9	ug/L		06/20/20 06:53	06/24/20 18:45	20
Fluoranthene	ND		110	8.5	ug/L		06/20/20 06:53	06/24/20 18:45	20
Fluorene	ND		110	7.7	ug/L		06/20/20 06:53	06/24/20 18:45	20
Indeno(1,2,3-c,d)pyrene	ND		110	10	ug/L		06/20/20 06:53	06/24/20 18:45	20
Naphthalene	ND		110	16	ug/L		06/20/20 06:53	06/24/20 18:45	20
Phenanthrene	ND		110	9.4	ug/L		06/20/20 06:53	06/24/20 18:45	20
Pyrene	ND		110	7.2	ug/L		06/20/20 06:53	06/24/20 18:45	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	92		46 - 120	06/20/20 06:53	06/24/20 18:45	20
2-Fluorobiphenyl	97		48 - 120	06/20/20 06:53	06/24/20 18:45	20
p-Terphenyl-d14	86		60 - 148	06/20/20 06:53	06/24/20 18:45	20

Client Sample ID: MW-9111S

Lab Sample ID: 480-171345-5

Date Collected: 06/17/20 09:20

Matrix: Water

Date Received: 06/18/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			06/19/20 00:09	1
Toluene	ND		1.0	0.51	ug/L			06/19/20 00:09	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/19/20 00:09	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			06/19/20 00:09	1
o-Xylene	ND		1.0	0.76	ug/L			06/19/20 00:09	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/19/20 00:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		77 - 120		06/19/20 00:09	1
Toluene-d8 (Surr)	95		80 - 120		06/19/20 00:09	1
4-Bromofluorobenzene (Surr)	102		73 - 120		06/19/20 00:09	1
Dibromofluoromethane (Surr)	111		75 - 123		06/19/20 00:09	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	4.7	J	5.0	0.41	ug/L		06/20/20 06:53	06/24/20 19:14	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State Electric & Gas
Project/Site: NYSEG - Oneonta Former MGP

Job ID: 480-171345-1

Client Sample ID: MW-9111S

Lab Sample ID: 480-171345-5

Date Collected: 06/17/20 09:20

Matrix: Water

Date Received: 06/18/20 08:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	ND		5.0	0.38	ug/L		06/20/20 06:53	06/24/20 19:14	1
Anthracene	ND		5.0	0.28	ug/L		06/20/20 06:53	06/24/20 19:14	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		06/20/20 06:53	06/24/20 19:14	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		06/20/20 06:53	06/24/20 19:14	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		06/20/20 06:53	06/24/20 19:14	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		06/20/20 06:53	06/24/20 19:14	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		06/20/20 06:53	06/24/20 19:14	1
Chrysene	ND		5.0	0.33	ug/L		06/20/20 06:53	06/24/20 19:14	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		06/20/20 06:53	06/24/20 19:14	1
Fluoranthene	0.48	J	5.0	0.40	ug/L		06/20/20 06:53	06/24/20 19:14	1
Fluorene	ND		5.0	0.36	ug/L		06/20/20 06:53	06/24/20 19:14	1
Indeno(1,2,3-c,d)pyrene	ND		5.0	0.47	ug/L		06/20/20 06:53	06/24/20 19:14	1
Naphthalene	ND		5.0	0.76	ug/L		06/20/20 06:53	06/24/20 19:14	1
Phenanthrene	1.5	J B	5.0	0.44	ug/L		06/20/20 06:53	06/24/20 19:14	1
Pyrene	ND		5.0	0.34	ug/L		06/20/20 06:53	06/24/20 19:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	108		46 - 120	06/20/20 06:53	06/24/20 19:14	1
2-Fluorobiphenyl	112		48 - 120	06/20/20 06:53	06/24/20 19:14	1
p-Terphenyl-d14	95		60 - 148	06/20/20 06:53	06/24/20 19:14	1

Client Sample ID: MW-0203

Lab Sample ID: 480-171345-6

Date Collected: 06/16/20 13:50

Matrix: Water

Date Received: 06/18/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			06/19/20 00:32	1
Toluene	ND		1.0	0.51	ug/L			06/19/20 00:32	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/19/20 00:32	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			06/19/20 00:32	1
o-Xylene	ND		1.0	0.76	ug/L			06/19/20 00:32	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/19/20 00:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		77 - 120		06/19/20 00:32	1
Toluene-d8 (Surr)	97		80 - 120		06/19/20 00:32	1
4-Bromofluorobenzene (Surr)	104		73 - 120		06/19/20 00:32	1
Dibromofluoromethane (Surr)	109		75 - 123		06/19/20 00:32	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.4	0.45	ug/L		06/20/20 06:53	06/24/20 19:43	1
Acenaphthylene	ND		5.4	0.41	ug/L		06/20/20 06:53	06/24/20 19:43	1
Anthracene	ND		5.4	0.30	ug/L		06/20/20 06:53	06/24/20 19:43	1
Benzo(a)anthracene	ND		5.4	0.39	ug/L		06/20/20 06:53	06/24/20 19:43	1
Benzo(a)pyrene	ND		5.4	0.51	ug/L		06/20/20 06:53	06/24/20 19:43	1
Benzo(b)fluoranthene	ND		5.4	0.37	ug/L		06/20/20 06:53	06/24/20 19:43	1
Benzo(g,h,i)perylene	ND		5.4	0.38	ug/L		06/20/20 06:53	06/24/20 19:43	1
Benzo(k)fluoranthene	ND		5.4	0.79	ug/L		06/20/20 06:53	06/24/20 19:43	1
Chrysene	ND		5.4	0.36	ug/L		06/20/20 06:53	06/24/20 19:43	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State Electric & Gas
Project/Site: NYSEG - Oneonta Former MGP

Job ID: 480-171345-1

Client Sample ID: MW-0203

Lab Sample ID: 480-171345-6

Date Collected: 06/16/20 13:50

Matrix: Water

Date Received: 06/18/20 08:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	ND		5.4	0.46	ug/L		06/20/20 06:53	06/24/20 19:43	1
Fluoranthene	ND		5.4	0.43	ug/L		06/20/20 06:53	06/24/20 19:43	1
Fluorene	ND		5.4	0.39	ug/L		06/20/20 06:53	06/24/20 19:43	1
Indeno(1,2,3-c,d)pyrene	ND		5.4	0.51	ug/L		06/20/20 06:53	06/24/20 19:43	1
Naphthalene	ND		5.4	0.83	ug/L		06/20/20 06:53	06/24/20 19:43	1
Phenanthrene	1.3	J B	5.4	0.48	ug/L		06/20/20 06:53	06/24/20 19:43	1
Pyrene	ND		5.4	0.37	ug/L		06/20/20 06:53	06/24/20 19:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	101		46 - 120	06/20/20 06:53	06/24/20 19:43	1
2-Fluorobiphenyl	104		48 - 120	06/20/20 06:53	06/24/20 19:43	1
p-Terphenyl-d14	96		60 - 148	06/20/20 06:53	06/24/20 19:43	1

Client Sample ID: MW-9112S

Lab Sample ID: 480-171345-7

Date Collected: 06/16/20 14:30

Matrix: Water

Date Received: 06/18/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			06/19/20 00:55	1
Toluene	ND		1.0	0.51	ug/L			06/19/20 00:55	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/19/20 00:55	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			06/19/20 00:55	1
o-Xylene	ND		1.0	0.76	ug/L			06/19/20 00:55	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/19/20 00:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		77 - 120		06/19/20 00:55	1
Toluene-d8 (Surr)	96		80 - 120		06/19/20 00:55	1
4-Bromofluorobenzene (Surr)	103		73 - 120		06/19/20 00:55	1
Dibromofluoromethane (Surr)	111		75 - 123		06/19/20 00:55	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.41	ug/L		06/20/20 06:53	06/24/20 20:12	1
Acenaphthylene	ND		5.0	0.38	ug/L		06/20/20 06:53	06/24/20 20:12	1
Anthracene	ND		5.0	0.28	ug/L		06/20/20 06:53	06/24/20 20:12	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		06/20/20 06:53	06/24/20 20:12	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		06/20/20 06:53	06/24/20 20:12	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		06/20/20 06:53	06/24/20 20:12	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		06/20/20 06:53	06/24/20 20:12	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		06/20/20 06:53	06/24/20 20:12	1
Chrysene	ND		5.0	0.33	ug/L		06/20/20 06:53	06/24/20 20:12	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		06/20/20 06:53	06/24/20 20:12	1
Fluoranthene	ND		5.0	0.40	ug/L		06/20/20 06:53	06/24/20 20:12	1
Fluorene	ND		5.0	0.36	ug/L		06/20/20 06:53	06/24/20 20:12	1
Indeno(1,2,3-c,d)pyrene	ND		5.0	0.47	ug/L		06/20/20 06:53	06/24/20 20:12	1
Naphthalene	ND		5.0	0.76	ug/L		06/20/20 06:53	06/24/20 20:12	1
Phenanthrene	1.3	J B	5.0	0.44	ug/L		06/20/20 06:53	06/24/20 20:12	1
Pyrene	ND		5.0	0.34	ug/L		06/20/20 06:53	06/24/20 20:12	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State Electric & Gas
Project/Site: NYSEG - Oneonta Former MGP

Job ID: 480-171345-1

Client Sample ID: MW-9112S

Date Collected: 06/16/20 14:30

Date Received: 06/18/20 08:00

Lab Sample ID: 480-171345-7

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	104		46 - 120	06/20/20 06:53	06/24/20 20:12	1
2-Fluorobiphenyl	106		48 - 120	06/20/20 06:53	06/24/20 20:12	1
p-Terphenyl-d14	92		60 - 148	06/20/20 06:53	06/24/20 20:12	1

Client Sample ID: MW-9112D

Date Collected: 06/16/20 15:45

Date Received: 06/18/20 08:00

Lab Sample ID: 480-171345-8

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			06/19/20 01:18	1
Toluene	ND		1.0	0.51	ug/L			06/19/20 01:18	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/19/20 01:18	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			06/19/20 01:18	1
o-Xylene	ND		1.0	0.76	ug/L			06/19/20 01:18	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/19/20 01:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	117		77 - 120		06/19/20 01:18	1
Toluene-d8 (Surr)	96		80 - 120		06/19/20 01:18	1
4-Bromofluorobenzene (Surr)	102		73 - 120		06/19/20 01:18	1
Dibromofluoromethane (Surr)	114		75 - 123		06/19/20 01:18	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.41	ug/L		06/20/20 06:53	06/24/20 20:41	1
Acenaphthylene	ND		5.0	0.38	ug/L		06/20/20 06:53	06/24/20 20:41	1
Anthracene	ND		5.0	0.28	ug/L		06/20/20 06:53	06/24/20 20:41	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		06/20/20 06:53	06/24/20 20:41	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		06/20/20 06:53	06/24/20 20:41	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		06/20/20 06:53	06/24/20 20:41	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		06/20/20 06:53	06/24/20 20:41	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		06/20/20 06:53	06/24/20 20:41	1
Chrysene	ND		5.0	0.33	ug/L		06/20/20 06:53	06/24/20 20:41	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		06/20/20 06:53	06/24/20 20:41	1
Fluoranthene	ND		5.0	0.40	ug/L		06/20/20 06:53	06/24/20 20:41	1
Fluorene	ND		5.0	0.36	ug/L		06/20/20 06:53	06/24/20 20:41	1
Indeno(1,2,3-c,d)pyrene	ND		5.0	0.47	ug/L		06/20/20 06:53	06/24/20 20:41	1
Naphthalene	ND		5.0	0.76	ug/L		06/20/20 06:53	06/24/20 20:41	1
Phenanthrene	1.3	J B	5.0	0.44	ug/L		06/20/20 06:53	06/24/20 20:41	1
Pyrene	ND		5.0	0.34	ug/L		06/20/20 06:53	06/24/20 20:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	104		46 - 120	06/20/20 06:53	06/24/20 20:41	1
2-Fluorobiphenyl	107		48 - 120	06/20/20 06:53	06/24/20 20:41	1
p-Terphenyl-d14	100		60 - 148	06/20/20 06:53	06/24/20 20:41	1

Client Sample Results

Client: New York State Electric & Gas
Project/Site: NYSEG - Oneonta Former MGP

Job ID: 480-171345-1

Client Sample ID: MW-9502S

Lab Sample ID: 480-171345-9

Date Collected: 06/17/20 10:05

Matrix: Water

Date Received: 06/18/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			06/19/20 01:41	1
Toluene	ND		1.0	0.51	ug/L			06/19/20 01:41	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/19/20 01:41	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			06/19/20 01:41	1
o-Xylene	ND		1.0	0.76	ug/L			06/19/20 01:41	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/19/20 01:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		77 - 120		06/19/20 01:41	1
Toluene-d8 (Surr)	96		80 - 120		06/19/20 01:41	1
4-Bromofluorobenzene (Surr)	103		73 - 120		06/19/20 01:41	1
Dibromofluoromethane (Surr)	110		75 - 123		06/19/20 01:41	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.41	ug/L		06/20/20 06:53	06/24/20 16:19	1
Acenaphthylene	ND		5.0	0.38	ug/L		06/20/20 06:53	06/24/20 16:19	1
Anthracene	ND		5.0	0.28	ug/L		06/20/20 06:53	06/24/20 16:19	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		06/20/20 06:53	06/24/20 16:19	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		06/20/20 06:53	06/24/20 16:19	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		06/20/20 06:53	06/24/20 16:19	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		06/20/20 06:53	06/24/20 16:19	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		06/20/20 06:53	06/24/20 16:19	1
Chrysene	ND		5.0	0.33	ug/L		06/20/20 06:53	06/24/20 16:19	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		06/20/20 06:53	06/24/20 16:19	1
Fluoranthene	ND		5.0	0.40	ug/L		06/20/20 06:53	06/24/20 16:19	1
Fluorene	ND		5.0	0.36	ug/L		06/20/20 06:53	06/24/20 16:19	1
Indeno(1,2,3-c,d)pyrene	ND		5.0	0.47	ug/L		06/20/20 06:53	06/24/20 16:19	1
Naphthalene	ND		5.0	0.76	ug/L		06/20/20 06:53	06/24/20 16:19	1
Phenanthrene	1.3	J B	5.0	0.44	ug/L		06/20/20 06:53	06/24/20 16:19	1
Pyrene	ND		5.0	0.34	ug/L		06/20/20 06:53	06/24/20 16:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	103		46 - 120	06/20/20 06:53	06/24/20 16:19	1
2-Fluorobiphenyl	104		48 - 120	06/20/20 06:53	06/24/20 16:19	1
p-Terphenyl-d14	100		60 - 148	06/20/20 06:53	06/24/20 16:19	1

Client Sample ID: PTMW-0202

Lab Sample ID: 480-171345-10

Date Collected: 06/16/20 15:05

Matrix: Water

Date Received: 06/18/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	54		1.0	0.41	ug/L			06/19/20 12:15	1
Toluene	ND		1.0	0.51	ug/L			06/19/20 12:15	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/19/20 12:15	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			06/19/20 12:15	1
o-Xylene	0.97	J	1.0	0.76	ug/L			06/19/20 12:15	1
Xylenes, Total	0.97	J	2.0	0.66	ug/L			06/19/20 12:15	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State Electric & Gas
Project/Site: NYSEG - Oneonta Former MGP

Job ID: 480-171345-1

Client Sample ID: PTMW-0202

Lab Sample ID: 480-171345-10

Date Collected: 06/16/20 15:05

Matrix: Water

Date Received: 06/18/20 08:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	119		77 - 120		06/19/20 12:15	1
Toluene-d8 (Surr)	97		80 - 120		06/19/20 12:15	1
4-Bromofluorobenzene (Surr)	104		73 - 120		06/19/20 12:15	1
Dibromofluoromethane (Surr)	110		75 - 123		06/19/20 12:15	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	41		25	2.1	ug/L		06/20/20 06:53	06/24/20 21:10	5
Acenaphthylene	ND		25	1.9	ug/L		06/20/20 06:53	06/24/20 21:10	5
Anthracene	ND		25	1.4	ug/L		06/20/20 06:53	06/24/20 21:10	5
Benzo(a)anthracene	ND		25	1.8	ug/L		06/20/20 06:53	06/24/20 21:10	5
Benzo(a)pyrene	ND		25	2.4	ug/L		06/20/20 06:53	06/24/20 21:10	5
Benzo(b)fluoranthene	ND		25	1.7	ug/L		06/20/20 06:53	06/24/20 21:10	5
Benzo(g,h,i)perylene	ND		25	1.8	ug/L		06/20/20 06:53	06/24/20 21:10	5
Benzo(k)fluoranthene	ND		25	3.7	ug/L		06/20/20 06:53	06/24/20 21:10	5
Chrysene	ND		25	1.7	ug/L		06/20/20 06:53	06/24/20 21:10	5
Dibenz(a,h)anthracene	ND		25	2.1	ug/L		06/20/20 06:53	06/24/20 21:10	5
Fluoranthene	ND		25	2.0	ug/L		06/20/20 06:53	06/24/20 21:10	5
Fluorene	4.1	J	25	1.8	ug/L		06/20/20 06:53	06/24/20 21:10	5
Indeno(1,2,3-c,d)pyrene	ND		25	2.4	ug/L		06/20/20 06:53	06/24/20 21:10	5
Naphthalene	ND		25	3.8	ug/L		06/20/20 06:53	06/24/20 21:10	5
Phenanthrene	ND		25	2.2	ug/L		06/20/20 06:53	06/24/20 21:10	5
Pyrene	ND		25	1.7	ug/L		06/20/20 06:53	06/24/20 21:10	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	93		46 - 120	06/20/20 06:53	06/24/20 21:10	5
2-Fluorobiphenyl	95		48 - 120	06/20/20 06:53	06/24/20 21:10	5
p-Terphenyl-d14	83		60 - 148	06/20/20 06:53	06/24/20 21:10	5

Client Sample ID: DUP-061620

Lab Sample ID: 480-171345-11

Date Collected: 06/16/20 00:00

Matrix: Water

Date Received: 06/18/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	55		1.0	0.41	ug/L			06/19/20 12:38	1
Toluene	ND		1.0	0.51	ug/L			06/19/20 12:38	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/19/20 12:38	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			06/19/20 12:38	1
o-Xylene	0.90	J	1.0	0.76	ug/L			06/19/20 12:38	1
Xylenes, Total	0.90	J	2.0	0.66	ug/L			06/19/20 12:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	119		77 - 120		06/19/20 12:38	1
Toluene-d8 (Surr)	96		80 - 120		06/19/20 12:38	1
4-Bromofluorobenzene (Surr)	105		73 - 120		06/19/20 12:38	1
Dibromofluoromethane (Surr)	110		75 - 123		06/19/20 12:38	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	49	J	100	8.2	ug/L		06/20/20 06:53	06/24/20 21:39	20

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State Electric & Gas
Project/Site: NYSEG - Oneonta Former MGP

Job ID: 480-171345-1

Client Sample ID: DUP-061620

Lab Sample ID: 480-171345-11

Date Collected: 06/16/20 00:00

Matrix: Water

Date Received: 06/18/20 08:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	ND		100	7.6	ug/L		06/20/20 06:53	06/24/20 21:39	20
Anthracene	ND		100	5.6	ug/L		06/20/20 06:53	06/24/20 21:39	20
Benzo(a)anthracene	ND		100	7.2	ug/L		06/20/20 06:53	06/24/20 21:39	20
Benzo(a)pyrene	ND		100	9.4	ug/L		06/20/20 06:53	06/24/20 21:39	20
Benzo(b)fluoranthene	ND		100	6.8	ug/L		06/20/20 06:53	06/24/20 21:39	20
Benzo(g,h,i)perylene	ND		100	7.0	ug/L		06/20/20 06:53	06/24/20 21:39	20
Benzo(k)fluoranthene	ND		100	15	ug/L		06/20/20 06:53	06/24/20 21:39	20
Chrysene	ND		100	6.6	ug/L		06/20/20 06:53	06/24/20 21:39	20
Dibenz(a,h)anthracene	ND		100	8.4	ug/L		06/20/20 06:53	06/24/20 21:39	20
Fluoranthene	ND		100	8.0	ug/L		06/20/20 06:53	06/24/20 21:39	20
Fluorene	ND		100	7.2	ug/L		06/20/20 06:53	06/24/20 21:39	20
Indeno(1,2,3-c,d)pyrene	ND		100	9.4	ug/L		06/20/20 06:53	06/24/20 21:39	20
Naphthalene	ND		100	15	ug/L		06/20/20 06:53	06/24/20 21:39	20
Phenanthrene	ND		100	8.8	ug/L		06/20/20 06:53	06/24/20 21:39	20
Pyrene	ND		100	6.8	ug/L		06/20/20 06:53	06/24/20 21:39	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	97		46 - 120	06/20/20 06:53	06/24/20 21:39	20
2-Fluorobiphenyl	106		48 - 120	06/20/20 06:53	06/24/20 21:39	20
p-Terphenyl-d14	90		60 - 148	06/20/20 06:53	06/24/20 21:39	20

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-171345-12

Date Collected: 06/17/20 00:00

Matrix: Water

Date Received: 06/18/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			06/19/20 02:49	1
Toluene	ND		1.0	0.51	ug/L			06/19/20 02:49	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/19/20 02:49	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			06/19/20 02:49	1
o-Xylene	ND		1.0	0.76	ug/L			06/19/20 02:49	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/19/20 02:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		77 - 120		06/19/20 02:49	1
Toluene-d8 (Surr)	97		80 - 120		06/19/20 02:49	1
4-Bromofluorobenzene (Surr)	103		73 - 120		06/19/20 02:49	1
Dibromofluoromethane (Surr)	110		75 - 123		06/19/20 02:49	1

Surrogate Summary

Client: New York State Electric & Gas
Project/Site: NYSEG - Oneonta Former MGP

Job ID: 480-171345-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (77-120)	TOL (80-120)	BFB (73-120)	DBFM (75-123)
480-171345-1	MW-8604S	114	97	105	110
480-171345-2	MW-9114S	116	96	103	111
480-171345-3	MW-8806S	112	98	105	111
480-171345-4	MW-0201	115	96	104	110
480-171345-4 - DL	MW-0201	118	98	107	109
480-171345-5	MW-9111S	114	95	102	111
480-171345-6	MW-0203	113	97	104	109
480-171345-7	MW-9112S	114	96	103	111
480-171345-8	MW-9112D	117	96	102	114
480-171345-9	MW-9502S	112	96	103	110
480-171345-9 MS	MW-9502S MS	111	98	106	110
480-171345-9 MSD	MW-9502S MSD	108	98	106	106
480-171345-10	PTMW-0202	119	97	104	110
480-171345-11	DUP-061620	119	96	105	110
480-171345-12	TRIP BLANK	114	97	103	110
LCS 480-536920/6	Lab Control Sample	112	96	105	109
LCS 480-537002/5	Lab Control Sample	109	97	108	109
LCS 480-537163/5	Lab Control Sample	108	99	108	108
MB 480-536920/8	Method Blank	111	97	103	109
MB 480-537002/7	Method Blank	113	99	105	111
MB 480-537163/7	Method Blank	113	97	104	111

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		NBZ (46-120)	FBP (48-120)	TPHd14 (60-148)
480-171345-1	MW-8604S	95	101	95
480-171345-2	MW-9114S	99	101	97
480-171345-3	MW-8806S	97	98	94
480-171345-4	MW-0201	92	97	86
480-171345-5	MW-9111S	108	112	95
480-171345-6	MW-0203	101	104	96
480-171345-7	MW-9112S	104	106	92
480-171345-8	MW-9112D	104	107	100
480-171345-9	MW-9502S	103	104	100
480-171345-9 MS	MW-9502S MS	98	105	92
480-171345-9 MSD	MW-9502S MSD	96	102	94
480-171345-10	PTMW-0202	93	95	83
480-171345-11	DUP-061620	97	106	90
LCS 480-537162/2-A	Lab Control Sample	105	108	109
MB 480-537162/1-A	Method Blank	98	101	110

Surrogate Legend

Eurofins TestAmerica, Buffalo

Surrogate Summary

Client: New York State Electric & Gas

Project/Site: NYSEG - Oneonta Former MGP

NBZ = Nitrobenzene-d5

FBP = 2-Fluorobiphenyl

TPHd14 = p-Terphenyl-d14

Job ID: 480-171345-1

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QC Sample Results

Client: New York State Electric & Gas
Project/Site: NYSEG - Oneonta Former MGP

Job ID: 480-171345-1

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

Lab Sample ID: MB 480-536920/8

Matrix: Water

Analysis Batch: 536920

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			06/18/20 22:15	1
Toluene	ND		1.0	0.51	ug/L			06/18/20 22:15	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/18/20 22:15	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			06/18/20 22:15	1
o-Xylene	ND		1.0	0.76	ug/L			06/18/20 22:15	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/18/20 22:15	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		77 - 120		06/18/20 22:15	1
Toluene-d8 (Surr)	97		80 - 120		06/18/20 22:15	1
4-Bromofluorobenzene (Surr)	103		73 - 120		06/18/20 22:15	1
Dibromofluoromethane (Surr)	109		75 - 123		06/18/20 22:15	1

Lab Sample ID: LCS 480-536920/6

Matrix: Water

Analysis Batch: 536920

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	25.0	22.5		ug/L		90	71 - 124
Toluene	25.0	21.8		ug/L		87	80 - 122
Ethylbenzene	25.0	22.9		ug/L		92	77 - 123
m-Xylene & p-Xylene	25.0	23.6		ug/L		94	76 - 122
o-Xylene	25.0	23.3		ug/L		93	76 - 122

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	112		77 - 120
Toluene-d8 (Surr)	96		80 - 120
4-Bromofluorobenzene (Surr)	105		73 - 120
Dibromofluoromethane (Surr)	109		75 - 123

Lab Sample ID: 480-171345-9 MS

Matrix: Water

Analysis Batch: 536920

Client Sample ID: MW-9502S MS

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		25.0	25.3		ug/L		101	71 - 124
Toluene	ND		25.0	25.0		ug/L		100	80 - 122
Ethylbenzene	ND		25.0	26.2		ug/L		105	77 - 123
m-Xylene & p-Xylene	ND		25.0	26.4		ug/L		106	76 - 122
o-Xylene	ND		25.0	25.8		ug/L		103	76 - 122

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	111		77 - 120
Toluene-d8 (Surr)	98		80 - 120
4-Bromofluorobenzene (Surr)	106		73 - 120
Dibromofluoromethane (Surr)	110		75 - 123

QC Sample Results

Client: New York State Electric & Gas
Project/Site: NYSEG - Oneonta Former MGP

Job ID: 480-171345-1

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

Lab Sample ID: 480-171345-9 MSD

Matrix: Water

Analysis Batch: 536920

Client Sample ID: MW-9502S MSD

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		25.0	23.7		ug/L		95	71 - 124	6	13
Toluene	ND		25.0	23.7		ug/L		95	80 - 122	5	15
Ethylbenzene	ND		25.0	25.0		ug/L		100	77 - 123	5	15
m-Xylene & p-Xylene	ND		25.0	25.2		ug/L		101	76 - 122	5	16
o-Xylene	ND		25.0	25.1		ug/L		101	76 - 122	3	16

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	108		77 - 120
Toluene-d8 (Surr)	98		80 - 120
4-Bromofluorobenzene (Surr)	106		73 - 120
Dibromofluoromethane (Surr)	106		75 - 123

Lab Sample ID: MB 480-537002/7

Matrix: Water

Analysis Batch: 537002

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			06/19/20 10:57	1
Toluene	ND		1.0	0.51	ug/L			06/19/20 10:57	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/19/20 10:57	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			06/19/20 10:57	1
o-Xylene	ND		1.0	0.76	ug/L			06/19/20 10:57	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/19/20 10:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		77 - 120		06/19/20 10:57	1
Toluene-d8 (Surr)	99		80 - 120		06/19/20 10:57	1
4-Bromofluorobenzene (Surr)	105		73 - 120		06/19/20 10:57	1
Dibromofluoromethane (Surr)	111		75 - 123		06/19/20 10:57	1

Lab Sample ID: LCS 480-537002/5

Matrix: Water

Analysis Batch: 537002

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	25.0	23.0		ug/L		92	71 - 124
Toluene	25.0	22.4		ug/L		90	80 - 122
Ethylbenzene	25.0	23.9		ug/L		96	77 - 123
m-Xylene & p-Xylene	25.0	24.4		ug/L		98	76 - 122
o-Xylene	25.0	24.2		ug/L		97	76 - 122

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	109		77 - 120
Toluene-d8 (Surr)	97		80 - 120
4-Bromofluorobenzene (Surr)	108		73 - 120
Dibromofluoromethane (Surr)	109		75 - 123

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QC Sample Results

Client: New York State Electric & Gas
Project/Site: NYSEG - Oneonta Former MGP

Job ID: 480-171345-1

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

Lab Sample ID: MB 480-537163/7

Matrix: Water

Analysis Batch: 537163

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			06/20/20 10:32	1
Toluene	ND		1.0	0.51	ug/L			06/20/20 10:32	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/20/20 10:32	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			06/20/20 10:32	1
o-Xylene	ND		1.0	0.76	ug/L			06/20/20 10:32	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/20/20 10:32	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		77 - 120		06/20/20 10:32	1
Toluene-d8 (Surr)	97		80 - 120		06/20/20 10:32	1
4-Bromofluorobenzene (Surr)	104		73 - 120		06/20/20 10:32	1
Dibromofluoromethane (Surr)	111		75 - 123		06/20/20 10:32	1

Lab Sample ID: LCS 480-537163/5

Matrix: Water

Analysis Batch: 537163

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	25.0	22.5		ug/L		90	71 - 124
Toluene	25.0	22.1		ug/L		88	80 - 122
Ethylbenzene	25.0	23.3		ug/L		93	77 - 123
m-Xylene & p-Xylene	25.0	23.7		ug/L		95	76 - 122
o-Xylene	25.0	23.5		ug/L		94	76 - 122

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	108		77 - 120
Toluene-d8 (Surr)	99		80 - 120
4-Bromofluorobenzene (Surr)	108		73 - 120
Dibromofluoromethane (Surr)	108		75 - 123

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-537162/1-A

Matrix: Water

Analysis Batch: 537729

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 537162

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.41	ug/L		06/20/20 06:53	06/24/20 14:23	1
Acenaphthylene	ND		5.0	0.38	ug/L		06/20/20 06:53	06/24/20 14:23	1
Anthracene	ND		5.0	0.28	ug/L		06/20/20 06:53	06/24/20 14:23	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		06/20/20 06:53	06/24/20 14:23	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		06/20/20 06:53	06/24/20 14:23	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		06/20/20 06:53	06/24/20 14:23	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		06/20/20 06:53	06/24/20 14:23	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		06/20/20 06:53	06/24/20 14:23	1
Chrysene	ND		5.0	0.33	ug/L		06/20/20 06:53	06/24/20 14:23	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		06/20/20 06:53	06/24/20 14:23	1
Fluoranthene	ND		5.0	0.40	ug/L		06/20/20 06:53	06/24/20 14:23	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: New York State Electric & Gas
Project/Site: NYSEG - Oneonta Former MGP

Job ID: 480-171345-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-537162/1-A

Matrix: Water

Analysis Batch: 537729

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 537162

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	ND		5.0	0.36	ug/L		06/20/20 06:53	06/24/20 14:23	1
Indeno(1,2,3-c,d)pyrene	ND		5.0	0.47	ug/L		06/20/20 06:53	06/24/20 14:23	1
Naphthalene	ND		5.0	0.76	ug/L		06/20/20 06:53	06/24/20 14:23	1
Phenanthrene	1.50	J	5.0	0.44	ug/L		06/20/20 06:53	06/24/20 14:23	1
Pyrene	ND		5.0	0.34	ug/L		06/20/20 06:53	06/24/20 14:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	98		46 - 120	06/20/20 06:53	06/24/20 14:23	1
2-Fluorobiphenyl	101		48 - 120	06/20/20 06:53	06/24/20 14:23	1
p-Terphenyl-d14	110		60 - 148	06/20/20 06:53	06/24/20 14:23	1

Lab Sample ID: LCS 480-537162/2-A

Matrix: Water

Analysis Batch: 537729

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 537162

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	32.0	33.4		ug/L		104	60 - 120
Acenaphthylene	32.0	34.5		ug/L		108	63 - 120
Anthracene	32.0	34.5		ug/L		108	67 - 120
Benzo(a)anthracene	32.0	33.7		ug/L		105	70 - 121
Benzo(a)pyrene	32.0	36.6		ug/L		114	60 - 123
Benzo(b)fluoranthene	32.0	37.4		ug/L		117	66 - 126
Benzo(g,h,i)perylene	32.0	39.3		ug/L		123	66 - 150
Benzo(k)fluoranthene	32.0	34.4		ug/L		107	65 - 124
Chrysene	32.0	34.0		ug/L		106	69 - 120
Dibenz(a,h)anthracene	32.0	39.3		ug/L		123	65 - 135
Fluoranthene	32.0	36.8		ug/L		115	69 - 126
Fluorene	32.0	34.7		ug/L		108	66 - 120
Indeno(1,2,3-c,d)pyrene	32.0	38.1		ug/L		119	69 - 146
Naphthalene	32.0	31.6		ug/L		99	57 - 120
Phenanthrene	32.0	36.0		ug/L		112	68 - 120
Pyrene	32.0	34.6		ug/L		108	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5	105		46 - 120
2-Fluorobiphenyl	108		48 - 120
p-Terphenyl-d14	109		60 - 148

Lab Sample ID: 480-171345-9 MS

Matrix: Water

Analysis Batch: 537729

Client Sample ID: MW-9502S MS

Prep Type: Total/NA

Prep Batch: 537162

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	ND		32.0	32.7		ug/L		102	48 - 120
Acenaphthylene	ND		32.0	34.1		ug/L		107	63 - 120
Anthracene	ND		32.0	33.5		ug/L		105	65 - 122
Benzo(a)anthracene	ND		32.0	33.0		ug/L		103	43 - 124
Benzo(a)pyrene	ND		32.0	34.3		ug/L		107	23 - 125

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: New York State Electric & Gas
Project/Site: NYSEG - Oneonta Former MGP

Job ID: 480-171345-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-171345-9 MS

Matrix: Water

Analysis Batch: 537729

Client Sample ID: MW-9502S MS

Prep Type: Total/NA

Prep Batch: 537162

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.		
	Result	Qualifier	Added	Result	Qualifier				Limits		
Benzo(b)fluoranthene	ND		32.0	35.3		ug/L		110	27 - 127		
Benzo(g,h,i)perylene	ND		32.0	34.8		ug/L		109	16 - 147		
Benzo(k)fluoranthene	ND		32.0	30.9		ug/L		97	20 - 124		
Chrysene	ND		32.0	32.3		ug/L		101	44 - 122		
Dibenz(a,h)anthracene	ND		32.0	35.4		ug/L		111	16 - 139		
Fluoranthene	ND		32.0	35.9		ug/L		112	63 - 129		
Fluorene	ND		32.0	34.4		ug/L		108	62 - 120		
Indeno(1,2,3-c,d)pyrene	ND		32.0	34.4		ug/L		107	16 - 140		
Naphthalene	ND		32.0	30.9		ug/L		97	45 - 120		
Phenanthrene	1.3	J B	32.0	34.8		ug/L		105	65 - 122		
Pyrene	ND		32.0	34.0		ug/L		106	58 - 128		
</											

Lab Sample ID: 480-171345-9 MSD

Matrix: Water

Analysis Batch: 537729

Client Sample ID: MW-9502S MSD

Prep Type: Total/NA

Prep Batch: 537162

Analyte	Sample	Sample	Spike	MSD	MSD	%Rec.					RPD
	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Acenaphthene	ND		34.8	34.4		ug/L		99	48 - 120	5	24
Acenaphthylene	ND		34.8	35.6		ug/L		102	63 - 120	4	18
Anthracene	ND		34.8	36.8		ug/L		106	65 - 122	9	15
Benzo(a)anthracene	ND		34.8	35.2		ug/L		101	43 - 124	7	15
Benzo(a)pyrene	ND		34.8	36.9		ug/L		106	23 - 125	8	15
Benzo(b)fluoranthene	ND		34.8	37.5		ug/L		108	27 - 127	6	15
Benzo(g,h,i)perylene	ND		34.8	39.0		ug/L		112	16 - 147	11	15
Benzo(k)fluoranthene	ND		34.8	34.6		ug/L		99	20 - 124	11	22
Chrysene	ND		34.8	35.6		ug/L		102	44 - 122	10	15
Dibenz(a,h)anthracene	ND		34.8	38.5		ug/L		111	16 - 139	8	15
Fluoranthene	ND		34.8	38.5		ug/L		111	63 - 129	7	15
Fluorene	ND		34.8	36.3		ug/L		104	62 - 120	5	15
Indeno(1,2,3-c,d)pyrene	ND		34.8	37.7		ug/L		108	16 - 140	9	15
Naphthalene	ND		34.8	32.3		ug/L		93	45 - 120	4	29
Phenanthrene	1.3	J B	34.8	37.8		ug/L		105	65 - 122	8	15
Pyrene	ND		34.8	36.7		ug/L		106	58 - 128	8	19
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
Nitrobenzene-d5	96		46 - 120								
2-Fluorobiphenyl	102		48 - 120								
p-Terphenyl-d14	94		60 - 148								

QC Association Summary

Client: New York State Electric & Gas
Project/Site: NYSEG - Oneonta Former MGP

Job ID: 480-171345-1

GC/MS VOA

Analysis Batch: 536920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-171345-1	MW-8604S	Total/NA	Water	8260C	
480-171345-2	MW-9114S	Total/NA	Water	8260C	
480-171345-3	MW-8806S	Total/NA	Water	8260C	
480-171345-5	MW-9111S	Total/NA	Water	8260C	
480-171345-6	MW-0203	Total/NA	Water	8260C	
480-171345-7	MW-9112S	Total/NA	Water	8260C	
480-171345-8	MW-9112D	Total/NA	Water	8260C	
480-171345-9	MW-9502S	Total/NA	Water	8260C	
480-171345-12	TRIP BLANK	Total/NA	Water	8260C	
MB 480-536920/8	Method Blank	Total/NA	Water	8260C	
LCS 480-536920/6	Lab Control Sample	Total/NA	Water	8260C	
480-171345-9 MS	MW-9502S MS	Total/NA	Water	8260C	
480-171345-9 MSD	MW-9502S MSD	Total/NA	Water	8260C	

Analysis Batch: 537002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-171345-4	MW-0201	Total/NA	Water	8260C	
480-171345-10	PTMW-0202	Total/NA	Water	8260C	
480-171345-11	DUP-061620	Total/NA	Water	8260C	
MB 480-537002/7	Method Blank	Total/NA	Water	8260C	
LCS 480-537002/5	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 537163

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-171345-4 - DL	MW-0201	Total/NA	Water	8260C	
MB 480-537163/7	Method Blank	Total/NA	Water	8260C	
LCS 480-537163/5	Lab Control Sample	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 537162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-171345-1	MW-8604S	Total/NA	Water	3510C	
480-171345-2	MW-9114S	Total/NA	Water	3510C	
480-171345-3	MW-8806S	Total/NA	Water	3510C	
480-171345-4	MW-0201	Total/NA	Water	3510C	
480-171345-5	MW-9111S	Total/NA	Water	3510C	
480-171345-6	MW-0203	Total/NA	Water	3510C	
480-171345-7	MW-9112S	Total/NA	Water	3510C	
480-171345-8	MW-9112D	Total/NA	Water	3510C	
480-171345-9	MW-9502S	Total/NA	Water	3510C	
480-171345-10	PTMW-0202	Total/NA	Water	3510C	
480-171345-11	DUP-061620	Total/NA	Water	3510C	
MB 480-537162/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-537162/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-171345-9 MS	MW-9502S MS	Total/NA	Water	3510C	
480-171345-9 MSD	MW-9502S MSD	Total/NA	Water	3510C	

Analysis Batch: 537729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-171345-1	MW-8604S	Total/NA	Water	8270D	537162

Eurofins TestAmerica, Buffalo

QC Association Summary

Client: New York State Electric & Gas
Project/Site: NYSEG - Oneonta Former MGP

Job ID: 480-171345-1

GC/MS Semi VOA (Continued)

Analysis Batch: 537729 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-171345-2	MW-9114S	Total/NA	Water	8270D	537162
480-171345-3	MW-8806S	Total/NA	Water	8270D	537162
480-171345-4	MW-0201	Total/NA	Water	8270D	537162
480-171345-5	MW-9111S	Total/NA	Water	8270D	537162
480-171345-6	MW-0203	Total/NA	Water	8270D	537162
480-171345-7	MW-9112S	Total/NA	Water	8270D	537162
480-171345-8	MW-9112D	Total/NA	Water	8270D	537162
480-171345-9	MW-9502S	Total/NA	Water	8270D	537162
480-171345-10	PTMW-0202	Total/NA	Water	8270D	537162
480-171345-11	DUP-061620	Total/NA	Water	8270D	537162
MB 480-537162/1-A	Method Blank	Total/NA	Water	8270D	537162
LCS 480-537162/2-A	Lab Control Sample	Total/NA	Water	8270D	537162
480-171345-9 MS	MW-9502S MS	Total/NA	Water	8270D	537162
480-171345-9 MSD	MW-9502S MSD	Total/NA	Water	8270D	537162

Lab Chronicle

Client: New York State Electric & Gas
Project/Site: NYSEG - Oneonta Former MGP

Job ID: 480-171345-1

Client Sample ID: MW-8604S

Lab Sample ID: 480-171345-1

Date Collected: 06/16/20 10:10

Matrix: Water

Date Received: 06/18/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	536920	06/18/20 22:37	OMI	TAL BUF
Total/NA	Prep	3510C			537162	06/20/20 06:53	SMP	TAL BUF
Total/NA	Analysis	8270D		1	537729	06/24/20 17:17	JMM	TAL BUF

Client Sample ID: MW-9114S

Lab Sample ID: 480-171345-2

Date Collected: 06/16/20 12:10

Matrix: Water

Date Received: 06/18/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	536920	06/18/20 23:00	OMI	TAL BUF
Total/NA	Prep	3510C			537162	06/20/20 06:53	SMP	TAL BUF
Total/NA	Analysis	8270D		1	537729	06/24/20 17:46	JMM	TAL BUF

Client Sample ID: MW-8806S

Lab Sample ID: 480-171345-3

Date Collected: 06/16/20 10:10

Matrix: Water

Date Received: 06/18/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	536920	06/18/20 23:23	OMI	TAL BUF
Total/NA	Prep	3510C			537162	06/20/20 06:53	SMP	TAL BUF
Total/NA	Analysis	8270D		1	537729	06/24/20 18:16	JMM	TAL BUF

Client Sample ID: MW-0201

Lab Sample ID: 480-171345-4

Date Collected: 06/16/20 11:30

Matrix: Water

Date Received: 06/18/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	537002	06/19/20 11:52	CRL	TAL BUF
Total/NA	Analysis	8260C	DL	2	537163	06/20/20 11:03	WJD	TAL BUF
Total/NA	Prep	3510C			537162	06/20/20 06:53	SMP	TAL BUF
Total/NA	Analysis	8270D		20	537729	06/24/20 18:45	JMM	TAL BUF

Client Sample ID: MW-9111S

Lab Sample ID: 480-171345-5

Date Collected: 06/17/20 09:20

Matrix: Water

Date Received: 06/18/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	536920	06/19/20 00:09	OMI	TAL BUF
Total/NA	Prep	3510C			537162	06/20/20 06:53	SMP	TAL BUF
Total/NA	Analysis	8270D		1	537729	06/24/20 19:14	JMM	TAL BUF

Lab Chronicle

Client: New York State Electric & Gas
Project/Site: NYSEG - Oneonta Former MGP

Job ID: 480-171345-1

Client Sample ID: MW-0203

Lab Sample ID: 480-171345-6

Date Collected: 06/16/20 13:50

Matrix: Water

Date Received: 06/18/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	536920	06/19/20 00:32	OMI	TAL BUF
Total/NA	Prep	3510C			537162	06/20/20 06:53	SMP	TAL BUF
Total/NA	Analysis	8270D		1	537729	06/24/20 19:43	JMM	TAL BUF

Client Sample ID: MW-9112S

Lab Sample ID: 480-171345-7

Date Collected: 06/16/20 14:30

Matrix: Water

Date Received: 06/18/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	536920	06/19/20 00:55	OMI	TAL BUF
Total/NA	Prep	3510C			537162	06/20/20 06:53	SMP	TAL BUF
Total/NA	Analysis	8270D		1	537729	06/24/20 20:12	JMM	TAL BUF

Client Sample ID: MW-9112D

Lab Sample ID: 480-171345-8

Date Collected: 06/16/20 15:45

Matrix: Water

Date Received: 06/18/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	536920	06/19/20 01:18	OMI	TAL BUF
Total/NA	Prep	3510C			537162	06/20/20 06:53	SMP	TAL BUF
Total/NA	Analysis	8270D		1	537729	06/24/20 20:41	JMM	TAL BUF

Client Sample ID: MW-9502S

Lab Sample ID: 480-171345-9

Date Collected: 06/17/20 10:05

Matrix: Water

Date Received: 06/18/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	536920	06/19/20 01:41	OMI	TAL BUF
Total/NA	Prep	3510C			537162	06/20/20 06:53	SMP	TAL BUF
Total/NA	Analysis	8270D		1	537729	06/24/20 16:19	JMM	TAL BUF

Client Sample ID: PTMW-0202

Lab Sample ID: 480-171345-10

Date Collected: 06/16/20 15:05

Matrix: Water

Date Received: 06/18/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	537002	06/19/20 12:15	CRL	TAL BUF
Total/NA	Prep	3510C			537162	06/20/20 06:53	SMP	TAL BUF
Total/NA	Analysis	8270D		5	537729	06/24/20 21:10	JMM	TAL BUF

Client Sample ID: DUP-061620

Lab Sample ID: 480-171345-11

Date Collected: 06/16/20 00:00

Matrix: Water

Date Received: 06/18/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	537002	06/19/20 12:38	CRL	TAL BUF

Eurofins TestAmerica, Buffalo

Lab Chronicle

Client: New York State Electric & Gas
Project/Site: NYSEG - Oneonta Former MGP

Job ID: 480-171345-1

Client Sample ID: DUP-061620

Date Collected: 06/16/20 00:00

Date Received: 06/18/20 08:00

Lab Sample ID: 480-171345-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			537162	06/20/20 06:53	SMP	TAL BUF
Total/NA	Analysis	8270D		20	537729	06/24/20 21:39	JMM	TAL BUF

Client Sample ID: TRIP BLANK

Date Collected: 06/17/20 00:00

Date Received: 06/18/20 08:00

Lab Sample ID: 480-171345-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	536920	06/19/20 02:49	OMI	TAL BUF

Laboratory References:

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

Accreditation/Certification Summary

Client: New York State Electric & Gas
Project/Site: NYSEG - Oneonta Former MGP

Job ID: 480-171345-1

Laboratory: Eurofins TestAmerica, Buffalo

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-02-21

Method Summary

Client: New York State Electric & Gas
Project/Site: NYSEG - Oneonta Former MGP

Job ID: 480-171345-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF

Protocol References:

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

Laboratory References:

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

Sample Summary

Client: New York State Electric & Gas
Project/Site: NYSEG - Oneonta Former MGP

Job ID: 480-171345-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-171345-1	MW-8604S	Water	06/16/20 10:10	06/18/20 08:00	
480-171345-2	MW-9114S	Water	06/16/20 12:10	06/18/20 08:00	
480-171345-3	MW-8806S	Water	06/16/20 10:10	06/18/20 08:00	
480-171345-4	MW-0201	Water	06/16/20 11:30	06/18/20 08:00	
480-171345-5	MW-9111S	Water	06/17/20 09:20	06/18/20 08:00	
480-171345-6	MW-0203	Water	06/16/20 13:50	06/18/20 08:00	
480-171345-7	MW-9112S	Water	06/16/20 14:30	06/18/20 08:00	
480-171345-8	MW-9112D	Water	06/16/20 15:45	06/18/20 08:00	
480-171345-9	MW-9502S	Water	06/17/20 10:05	06/18/20 08:00	
480-171345-10	PTMW-0202	Water	06/16/20 15:05	06/18/20 08:00	
480-171345-11	DUP-061620	Water	06/16/20 00:00	06/18/20 08:00	
480-171345-12	TRIP BLANK	Water	06/17/20 00:00	06/18/20 08:00	

Chain of Custody Record

Environment Testing
America

Client Information Client Contact: Ryan Clare Company: ARCADIS U.S. Inc. Address: 100 Chestnut Street Suite 1020 City: Rochester State: NY, 14604 Phone: 585-880-7747 Email: Ryan.Clare@arcadis.com Project Name: NYSEG - Oneonta Site: NYSEG - Oneonta former MGP		Lab PM: Schove, John R E-Mail: john.schove@testamericainc.com Lab Phone: 585-880-7747 Project #: 48004125 SOW#:		Sampler: R. Clare & E. Green Phone: 585-880-7747 Lab PM: Schove, John R E-Mail: john.schove@testamericainc.com		COC No: 480-145743-29428.1 Page: #225 Page 1 of 2 Job #:	
Analysis Requested Due Date Requested: TAT Requested (days): Standard (10) PO #: 4504497349 WO #: NYSEG Oneonta/John Ruspantini Project #: 48004125 SOW#:				Preservation Codes: Hexane me NaO2 1204S 22SO3 22SO3 22SO4 3P Dodecahydrate celone ICAA w - pH 4-5 Z - other (specify)			
Sample Identification				Special Instructions/Note:			
MW-8604S	6/16/20	1010	G	Water	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D - PAHs
MW-9114S	6/16/20	1210	G	Water			8260C - BTEX
MW-8806S	6/16/20	1010	G	Water			
MW-0201	6/16/20	1130	G	Water			
MW-9111S	6/17/20	0920	G	Water			
MW-0203	6/16/20	1350	G	Water			
MW-9112S	6/16/20	1430	G	Water			
MW-9112D	6/16/20	1545	G	Water			
MW-9502S	6/17/20	1005	G	Water			
PTMW-0202	6/16/20	1505	G	Water			
DUP-061620	6/16/20	-	G	Water			
Possible Hazard Identification ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological Deliverable Requested: I, II, III, IV, Other (specify)				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months			
Empty Kit Relinquished by: Ryan Clare Relinquished by: Ryan Clare Relinquished by: Ryan Clare Relinquished by: Ryan Clare Custody Seal No.: Custody Seals Intact: ☒ Yes ☐ No				Method of Shipment: Received by: Ryan Clare Received by: Ryan Clare Received by: Ryan Clare Received by: Ryan Clare Cooler Temperature(s) °C and Other Remarks: 3.2 #1			

Chain of Custody Record

[illegible]

Login Sample Receipt Checklist

Client: New York State Electric & Gas

Job Number: 480-171345-1

Login Number: 171345

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Yeager, Brian A

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	ARCADIS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-178499-1

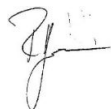
Client Project/Site: NYSEG - Oneonta

Sampling Event: NYSEG - Oneonta Former MGP
Revision: 1

For:

New York State Electric & Gas
18 Link Drive
Binghamton, New York 13902

Attn: Mr. John J Ruspantini



Authorized for release by:
12/10/2020 2:09:16 PM

Rebecca Jones, Project Management Assistant I
Rebecca.Jones@Eurofinset.com

Designee for

John Schove, Project Manager II
(716)504-9838
John.Schove@Eurofinset.com

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	7
Surrogate Summary	18
QC Sample Results	20
QC Association Summary	25
Lab Chronicle	27
Certification Summary	30
Method Summary	31
Sample Summary	32
Chain of Custody	33
Receipt Checklists	35



Definitions/Glossary

Client: New York State Electric & Gas
Project/Site: NYSEG - Oneonta

Job ID: 480-178499-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: New York State Electric & Gas
Project/Site: NYSEG - Oneonta

Job ID: 480-178499-1

Job ID: 480-178499-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-178499-1

Revision

This report has been revised to include m&p xylenes and o-xylene.

Receipt

The samples were received on 11/19/2020 7:06 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.4° C and 3.2° C.

GC/MS VOA

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-0201 (480-178499-4). Elevated reporting limits (RLs) are provided.

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: PTMW-0202 (480-178499-10) and DUP-111820 (480-178499-11). Elevated reporting limits (RLs) are provided.

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

GC/MS Semi VOA

Method 8270D: The continuing calibration verification (CCV) associated with batch 480-562011 recovered above the upper control limit for Benzo(k)fluoranthene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: MW-8604S (480-178499-1), MW-9114S (480-178499-2), MW-8806S (480-178499-3), MW-0201 (480-178499-4), MW-9111S (480-178499-5), MW-0203 (480-178499-6), MW-9112S (480-178499-7), MW-9112D (480-178499-8), MW-9502S (480-178499-9), PTMW-0202 (480-178499-10) and DUP-111820 (480-178499-11).

Method 8270D: The following samples were diluted to bring the concentration of target analytes within the calibration range: PTMW-0202 (480-178499-10) and DUP-111820 (480-178499-11). Elevated reporting limits (RLs) are provided.

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

Organic Prep

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

Detection Summary

Client: New York State Electric & Gas
Project/Site: NYSEG - Oneonta

Job ID: 480-178499-1

Client Sample ID: MW-8604S

Lab Sample ID: 480-178499-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	3.6	J	5.0	0.41	ug/L	1		8270D	Total/NA
Acenaphthylene	0.60	J	5.0	0.38	ug/L	1		8270D	Total/NA
Fluoranthene	0.55	J	5.0	0.40	ug/L	1		8270D	Total/NA
Pyrene	0.57	J	5.0	0.34	ug/L	1		8270D	Total/NA

Client Sample ID: MW-9114S

Lab Sample ID: 480-178499-2

No Detections.

Client Sample ID: MW-8806S

Lab Sample ID: 480-178499-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	23		1.0	0.41	ug/L	1		8260C	Total/NA
Ethylbenzene	13		1.0	0.74	ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	1.4	J	2.0	0.66	ug/L	1		8260C	Total/NA
o-Xylene	6.7		1.0	0.76	ug/L	1		8260C	Total/NA
Toluene	0.75	J	1.0	0.51	ug/L	1		8260C	Total/NA
Xylenes, Total	8.1		2.0	0.66	ug/L	1		8260C	Total/NA
Acenaphthene	3.3	J	5.0	0.41	ug/L	1		8270D	Total/NA

Client Sample ID: MW-0201

Lab Sample ID: 480-178499-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	120		2.0	0.82	ug/L	2		8260C	Total/NA
Ethylbenzene	92		2.0	1.5	ug/L	2		8260C	Total/NA
m-Xylene & p-Xylene	18		4.0	1.3	ug/L	2		8260C	Total/NA
o-Xylene	55		2.0	1.5	ug/L	2		8260C	Total/NA
Toluene	3.0		2.0	1.0	ug/L	2		8260C	Total/NA
Xylenes, Total	73		4.0	1.3	ug/L	2		8260C	Total/NA
Naphthalene	0.90	J	5.0	0.76	ug/L	1		8270D	Total/NA

Client Sample ID: MW-9111S

Lab Sample ID: 480-178499-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	6.8		1.0	0.41	ug/L	1		8260C	Total/NA
Acenaphthene	3.7	J	5.0	0.41	ug/L	1		8270D	Total/NA

Client Sample ID: MW-0203

Lab Sample ID: 480-178499-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	1.1	J	5.0	0.76	ug/L	1		8270D	Total/NA

Client Sample ID: MW-9112S

Lab Sample ID: 480-178499-7

No Detections.

Client Sample ID: MW-9112D

Lab Sample ID: 480-178499-8

No Detections.

Client Sample ID: MW-9502S

Lab Sample ID: 480-178499-9

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Detection Summary

Client: New York State Electric & Gas
Project/Site: NYSEG - Oneonta

Job ID: 480-178499-1

Client Sample ID: PTMW-0202

Lab Sample ID: 480-178499-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	560	E	1.0	0.41	ug/L	1		8260C	Total/NA
Ethylbenzene	0.98	J	1.0	0.74	ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	2.9		2.0	0.66	ug/L	1		8260C	Total/NA
o-Xylene	11		1.0	0.76	ug/L	1		8260C	Total/NA
Toluene	0.64	J	1.0	0.51	ug/L	1		8260C	Total/NA
Xylenes, Total	14		2.0	0.66	ug/L	1		8260C	Total/NA
Benzene - DL	580		10	4.1	ug/L	10		8260C	Total/NA
o-Xylene - DL	11		10	7.6	ug/L	10		8260C	Total/NA
Xylenes, Total - DL	11	J	20	6.6	ug/L	10		8260C	Total/NA
Acenaphthene	73		25	2.1	ug/L	5		8270D	Total/NA
Fluorene	15	J	25	1.8	ug/L	5		8270D	Total/NA
Naphthalene	110		25	3.8	ug/L	5		8270D	Total/NA
Phenanthrene	3.2	J	25	2.2	ug/L	5		8270D	Total/NA

Client Sample ID: DUP-111820

Lab Sample ID: 480-178499-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	580	E	1.0	0.41	ug/L	1		8260C	Total/NA
Ethylbenzene	0.99	J	1.0	0.74	ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	2.8		2.0	0.66	ug/L	1		8260C	Total/NA
o-Xylene	11		1.0	0.76	ug/L	1		8260C	Total/NA
Toluene	0.70	J	1.0	0.51	ug/L	1		8260C	Total/NA
Xylenes, Total	14		2.0	0.66	ug/L	1		8260C	Total/NA
Benzene - DL	570		10	4.1	ug/L	10		8260C	Total/NA
o-Xylene - DL	11		10	7.6	ug/L	10		8260C	Total/NA
Xylenes, Total - DL	11	J	20	6.6	ug/L	10		8260C	Total/NA
Acenaphthene	68		25	2.1	ug/L	5		8270D	Total/NA
Fluorene	14	J	25	1.8	ug/L	5		8270D	Total/NA
Naphthalene	95		25	3.8	ug/L	5		8270D	Total/NA
Phenanthrene	3.3	J	25	2.2	ug/L	5		8270D	Total/NA

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-178499-12

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State Electric & Gas
Project/Site: NYSEG - Oneonta

Job ID: 480-178499-1

Client Sample ID: MW-8604S

Lab Sample ID: 480-178499-1

Date Collected: 11/18/20 09:15

Matrix: WG

Date Received: 11/19/20 19:06

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			11/22/20 02:27	1
Ethylbenzene	ND		1.0	0.74	ug/L			11/22/20 02:27	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			11/22/20 02:27	1
o-Xylene	ND		1.0	0.76	ug/L			11/22/20 02:27	1
Toluene	ND		1.0	0.51	ug/L			11/22/20 02:27	1
Xylenes, Total	ND		2.0	0.66	ug/L			11/22/20 02:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		77 - 120		11/22/20 02:27	1
4-Bromofluorobenzene (Surr)	104		73 - 120		11/22/20 02:27	1
Dibromofluoromethane (Surr)	107		75 - 123		11/22/20 02:27	1
Toluene-d8 (Surr)	105		80 - 120		11/22/20 02:27	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	3.6	J	5.0	0.41	ug/L		11/23/20 15:16	12/04/20 16:50	1
Acenaphthylene	0.60	J	5.0	0.38	ug/L		11/23/20 15:16	12/04/20 16:50	1
Anthracene	ND		5.0	0.28	ug/L		11/23/20 15:16	12/04/20 16:50	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		11/23/20 15:16	12/04/20 16:50	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		11/23/20 15:16	12/04/20 16:50	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		11/23/20 15:16	12/04/20 16:50	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		11/23/20 15:16	12/04/20 16:50	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		11/23/20 15:16	12/04/20 16:50	1
Chrysene	ND		5.0	0.33	ug/L		11/23/20 15:16	12/04/20 16:50	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		11/23/20 15:16	12/04/20 16:50	1
Fluoranthene	0.55	J	5.0	0.40	ug/L		11/23/20 15:16	12/04/20 16:50	1
Fluorene	ND		5.0	0.36	ug/L		11/23/20 15:16	12/04/20 16:50	1
Indeno(1,2,3-c,d)pyrene	ND		5.0	0.47	ug/L		11/23/20 15:16	12/04/20 16:50	1
Naphthalene	ND		5.0	0.76	ug/L		11/23/20 15:16	12/04/20 16:50	1
Phenanthrene	ND		5.0	0.44	ug/L		11/23/20 15:16	12/04/20 16:50	1
Pyrene	0.57	J	5.0	0.34	ug/L		11/23/20 15:16	12/04/20 16:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	94		46 - 120	11/23/20 15:16	12/04/20 16:50	1
2-Fluorobiphenyl	103		48 - 120	11/23/20 15:16	12/04/20 16:50	1
p-Terphenyl-d14	89		60 - 148	11/23/20 15:16	12/04/20 16:50	1

Client Sample ID: MW-9114S

Lab Sample ID: 480-178499-2

Date Collected: 11/18/20 15:45

Matrix: WG

Date Received: 11/19/20 19:06

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			11/22/20 02:52	1
Ethylbenzene	ND		1.0	0.74	ug/L			11/22/20 02:52	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			11/22/20 02:52	1
o-Xylene	ND		1.0	0.76	ug/L			11/22/20 02:52	1
Toluene	ND		1.0	0.51	ug/L			11/22/20 02:52	1
Xylenes, Total	ND		2.0	0.66	ug/L			11/22/20 02:52	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State Electric & Gas
Project/Site: NYSEG - Oneonta

Job ID: 480-178499-1

Client Sample ID: MW-9114S

Lab Sample ID: 480-178499-2

Date Collected: 11/18/20 15:45

Matrix: WG

Date Received: 11/19/20 19:06

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		77 - 120		11/22/20 02:52	1
4-Bromofluorobenzene (Surr)	106		73 - 120		11/22/20 02:52	1
Dibromofluoromethane (Surr)	103		75 - 123		11/22/20 02:52	1
Toluene-d8 (Surr)	107		80 - 120		11/22/20 02:52	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.41	ug/L		11/23/20 15:16	12/04/20 17:19	1
Acenaphthylene	ND		5.0	0.38	ug/L		11/23/20 15:16	12/04/20 17:19	1
Anthracene	ND		5.0	0.28	ug/L		11/23/20 15:16	12/04/20 17:19	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		11/23/20 15:16	12/04/20 17:19	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		11/23/20 15:16	12/04/20 17:19	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		11/23/20 15:16	12/04/20 17:19	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		11/23/20 15:16	12/04/20 17:19	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		11/23/20 15:16	12/04/20 17:19	1
Chrysene	ND		5.0	0.33	ug/L		11/23/20 15:16	12/04/20 17:19	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		11/23/20 15:16	12/04/20 17:19	1
Fluoranthene	ND		5.0	0.40	ug/L		11/23/20 15:16	12/04/20 17:19	1
Fluorene	ND		5.0	0.36	ug/L		11/23/20 15:16	12/04/20 17:19	1
Indeno(1,2,3-c,d)pyrene	ND		5.0	0.47	ug/L		11/23/20 15:16	12/04/20 17:19	1
Naphthalene	ND		5.0	0.76	ug/L		11/23/20 15:16	12/04/20 17:19	1
Phenanthrene	ND		5.0	0.44	ug/L		11/23/20 15:16	12/04/20 17:19	1
Pyrene	ND		5.0	0.34	ug/L		11/23/20 15:16	12/04/20 17:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	97		46 - 120	11/23/20 15:16	12/04/20 17:19	1
2-Fluorobiphenyl	102		48 - 120	11/23/20 15:16	12/04/20 17:19	1
p-Terphenyl-d14	84		60 - 148	11/23/20 15:16	12/04/20 17:19	1

Client Sample ID: MW-8806S

Lab Sample ID: 480-178499-3

Date Collected: 11/18/20 16:35

Matrix: WG

Date Received: 11/19/20 19:06

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	23		1.0	0.41	ug/L			11/22/20 03:16	1
Ethylbenzene	13		1.0	0.74	ug/L			11/22/20 03:16	1
m-Xylene & p-Xylene	1.4	J	2.0	0.66	ug/L			11/22/20 03:16	1
o-Xylene	6.7		1.0	0.76	ug/L			11/22/20 03:16	1
Toluene	0.75	J	1.0	0.51	ug/L			11/22/20 03:16	1
Xylenes, Total	8.1		2.0	0.66	ug/L			11/22/20 03:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		77 - 120		11/22/20 03:16	1
4-Bromofluorobenzene (Surr)	106		73 - 120		11/22/20 03:16	1
Dibromofluoromethane (Surr)	104		75 - 123		11/22/20 03:16	1
Toluene-d8 (Surr)	106		80 - 120		11/22/20 03:16	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	3.3	J	5.0	0.41	ug/L		11/23/20 15:16	12/04/20 17:48	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State Electric & Gas
Project/Site: NYSEG - Oneonta

Job ID: 480-178499-1

Client Sample ID: MW-8806S

Lab Sample ID: 480-178499-3

Date Collected: 11/18/20 16:35

Matrix: WG

Date Received: 11/19/20 19:06

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	ND		5.0	0.38	ug/L		11/23/20 15:16	12/04/20 17:48	1
Anthracene	ND		5.0	0.28	ug/L		11/23/20 15:16	12/04/20 17:48	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		11/23/20 15:16	12/04/20 17:48	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		11/23/20 15:16	12/04/20 17:48	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		11/23/20 15:16	12/04/20 17:48	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		11/23/20 15:16	12/04/20 17:48	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		11/23/20 15:16	12/04/20 17:48	1
Chrysene	ND		5.0	0.33	ug/L		11/23/20 15:16	12/04/20 17:48	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		11/23/20 15:16	12/04/20 17:48	1
Fluoranthene	ND		5.0	0.40	ug/L		11/23/20 15:16	12/04/20 17:48	1
Fluorene	ND		5.0	0.36	ug/L		11/23/20 15:16	12/04/20 17:48	1
Indeno(1,2,3-c,d)pyrene	ND		5.0	0.47	ug/L		11/23/20 15:16	12/04/20 17:48	1
Naphthalene	ND		5.0	0.76	ug/L		11/23/20 15:16	12/04/20 17:48	1
Phenanthrene	ND		5.0	0.44	ug/L		11/23/20 15:16	12/04/20 17:48	1
Pyrene	ND		5.0	0.34	ug/L		11/23/20 15:16	12/04/20 17:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	88		46 - 120	11/23/20 15:16	12/04/20 17:48	1
2-Fluorobiphenyl	94		48 - 120	11/23/20 15:16	12/04/20 17:48	1
p-Terphenyl-d14	93		60 - 148	11/23/20 15:16	12/04/20 17:48	1

Client Sample ID: MW-0201

Lab Sample ID: 480-178499-4

Date Collected: 11/18/20 09:35

Matrix: WG

Date Received: 11/19/20 19:06

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	120		2.0	0.82	ug/L			11/22/20 03:40	2
Ethylbenzene	92		2.0	1.5	ug/L			11/22/20 03:40	2
m-Xylene & p-Xylene	18		4.0	1.3	ug/L			11/22/20 03:40	2
o-Xylene	55		2.0	1.5	ug/L			11/22/20 03:40	2
Toluene	3.0		2.0	1.0	ug/L			11/22/20 03:40	2
Xylenes, Total	73		4.0	1.3	ug/L			11/22/20 03:40	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		77 - 120		11/22/20 03:40	2
4-Bromofluorobenzene (Surr)	103		73 - 120		11/22/20 03:40	2
Dibromofluoromethane (Surr)	106		75 - 123		11/22/20 03:40	2
Toluene-d8 (Surr)	102		80 - 120		11/22/20 03:40	2

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.41	ug/L		11/23/20 15:16	12/04/20 18:16	1
Acenaphthylene	ND		5.0	0.38	ug/L		11/23/20 15:16	12/04/20 18:16	1
Anthracene	ND		5.0	0.28	ug/L		11/23/20 15:16	12/04/20 18:16	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		11/23/20 15:16	12/04/20 18:16	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		11/23/20 15:16	12/04/20 18:16	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		11/23/20 15:16	12/04/20 18:16	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		11/23/20 15:16	12/04/20 18:16	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		11/23/20 15:16	12/04/20 18:16	1
Chrysene	ND		5.0	0.33	ug/L		11/23/20 15:16	12/04/20 18:16	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State Electric & Gas
Project/Site: NYSEG - Oneonta

Job ID: 480-178499-1

Client Sample ID: MW-0201

Lab Sample ID: 480-178499-4

Date Collected: 11/18/20 09:35

Matrix: WG

Date Received: 11/19/20 19:06

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		11/23/20 15:16	12/04/20 18:16	1
Fluoranthene	ND		5.0	0.40	ug/L		11/23/20 15:16	12/04/20 18:16	1
Fluorene	ND		5.0	0.36	ug/L		11/23/20 15:16	12/04/20 18:16	1
Indeno(1,2,3-c,d)pyrene	ND		5.0	0.47	ug/L		11/23/20 15:16	12/04/20 18:16	1
Naphthalene	0.90	J	5.0	0.76	ug/L		11/23/20 15:16	12/04/20 18:16	1
Phenanthrene	ND		5.0	0.44	ug/L		11/23/20 15:16	12/04/20 18:16	1
Pyrene	ND		5.0	0.34	ug/L		11/23/20 15:16	12/04/20 18:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	94		46 - 120	11/23/20 15:16	12/04/20 18:16	1
2-Fluorobiphenyl	101		48 - 120	11/23/20 15:16	12/04/20 18:16	1
p-Terphenyl-d14	92		60 - 148	11/23/20 15:16	12/04/20 18:16	1

Client Sample ID: MW-9111S

Lab Sample ID: 480-178499-5

Date Collected: 11/18/20 10:30

Matrix: WG

Date Received: 11/19/20 19:06

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	6.8		1.0	0.41	ug/L			11/22/20 04:05	1
Ethylbenzene	ND		1.0	0.74	ug/L			11/22/20 04:05	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			11/22/20 04:05	1
o-Xylene	ND		1.0	0.76	ug/L			11/22/20 04:05	1
Toluene	ND		1.0	0.51	ug/L			11/22/20 04:05	1
Xylenes, Total	ND		2.0	0.66	ug/L			11/22/20 04:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		77 - 120		11/22/20 04:05	1
4-Bromofluorobenzene (Surr)	105		73 - 120		11/22/20 04:05	1
Dibromofluoromethane (Surr)	106		75 - 123		11/22/20 04:05	1
Toluene-d8 (Surr)	103		80 - 120		11/22/20 04:05	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	3.7	J	5.0	0.41	ug/L		11/23/20 15:16	12/04/20 18:44	1
Acenaphthylene	ND		5.0	0.38	ug/L		11/23/20 15:16	12/04/20 18:44	1
Anthracene	ND		5.0	0.28	ug/L		11/23/20 15:16	12/04/20 18:44	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		11/23/20 15:16	12/04/20 18:44	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		11/23/20 15:16	12/04/20 18:44	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		11/23/20 15:16	12/04/20 18:44	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		11/23/20 15:16	12/04/20 18:44	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		11/23/20 15:16	12/04/20 18:44	1
Chrysene	ND		5.0	0.33	ug/L		11/23/20 15:16	12/04/20 18:44	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		11/23/20 15:16	12/04/20 18:44	1
Fluoranthene	ND		5.0	0.40	ug/L		11/23/20 15:16	12/04/20 18:44	1
Fluorene	ND		5.0	0.36	ug/L		11/23/20 15:16	12/04/20 18:44	1
Indeno(1,2,3-c,d)pyrene	ND		5.0	0.47	ug/L		11/23/20 15:16	12/04/20 18:44	1
Naphthalene	ND		5.0	0.76	ug/L		11/23/20 15:16	12/04/20 18:44	1
Phenanthrene	ND		5.0	0.44	ug/L		11/23/20 15:16	12/04/20 18:44	1
Pyrene	ND		5.0	0.34	ug/L		11/23/20 15:16	12/04/20 18:44	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State Electric & Gas
Project/Site: NYSEG - Oneonta

Job ID: 480-178499-1

Client Sample ID: MW-9111S

Date Collected: 11/18/20 10:30

Date Received: 11/19/20 19:06

Lab Sample ID: 480-178499-5

Matrix: WG

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	89		46 - 120	11/23/20 15:16	12/04/20 18:44	1
2-Fluorobiphenyl	95		48 - 120	11/23/20 15:16	12/04/20 18:44	1
p-Terphenyl-d14	86		60 - 148	11/23/20 15:16	12/04/20 18:44	1

Client Sample ID: MW-0203

Date Collected: 11/18/20 11:00

Date Received: 11/19/20 19:06

Lab Sample ID: 480-178499-6

Matrix: WG

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			11/22/20 04:29	1
Ethylbenzene	ND		1.0	0.74	ug/L			11/22/20 04:29	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			11/22/20 04:29	1
o-Xylene	ND		1.0	0.76	ug/L			11/22/20 04:29	1
Toluene	ND		1.0	0.51	ug/L			11/22/20 04:29	1
Xylenes, Total	ND		2.0	0.66	ug/L			11/22/20 04:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		77 - 120		11/22/20 04:29	1
4-Bromofluorobenzene (Surr)	104		73 - 120		11/22/20 04:29	1
Dibromofluoromethane (Surr)	105		75 - 123		11/22/20 04:29	1
Toluene-d8 (Surr)	104		80 - 120		11/22/20 04:29	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.41	ug/L		11/23/20 15:16	12/04/20 19:13	1
Acenaphthylene	ND		5.0	0.38	ug/L		11/23/20 15:16	12/04/20 19:13	1
Anthracene	ND		5.0	0.28	ug/L		11/23/20 15:16	12/04/20 19:13	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		11/23/20 15:16	12/04/20 19:13	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		11/23/20 15:16	12/04/20 19:13	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		11/23/20 15:16	12/04/20 19:13	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		11/23/20 15:16	12/04/20 19:13	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		11/23/20 15:16	12/04/20 19:13	1
Chrysene	ND		5.0	0.33	ug/L		11/23/20 15:16	12/04/20 19:13	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		11/23/20 15:16	12/04/20 19:13	1
Fluoranthene	ND		5.0	0.40	ug/L		11/23/20 15:16	12/04/20 19:13	1
Fluorene	ND		5.0	0.36	ug/L		11/23/20 15:16	12/04/20 19:13	1
Indeno(1,2,3-c,d)pyrene	ND		5.0	0.47	ug/L		11/23/20 15:16	12/04/20 19:13	1
Naphthalene	1.1	J	5.0	0.76	ug/L		11/23/20 15:16	12/04/20 19:13	1
Phenanthrene	ND		5.0	0.44	ug/L		11/23/20 15:16	12/04/20 19:13	1
Pyrene	ND		5.0	0.34	ug/L		11/23/20 15:16	12/04/20 19:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	90		46 - 120	11/23/20 15:16	12/04/20 19:13	1
2-Fluorobiphenyl	99		48 - 120	11/23/20 15:16	12/04/20 19:13	1
p-Terphenyl-d14	89		60 - 148	11/23/20 15:16	12/04/20 19:13	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State Electric & Gas
Project/Site: NYSEG - Oneonta

Job ID: 480-178499-1

Client Sample ID: MW-9112S

Lab Sample ID: 480-178499-7

Date Collected: 11/18/20 13:55

Matrix: WG

Date Received: 11/19/20 19:06

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			11/22/20 04:53	1
Ethylbenzene	ND		1.0	0.74	ug/L			11/22/20 04:53	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			11/22/20 04:53	1
o-Xylene	ND		1.0	0.76	ug/L			11/22/20 04:53	1
Toluene	ND		1.0	0.51	ug/L			11/22/20 04:53	1
Xylenes, Total	ND		2.0	0.66	ug/L			11/22/20 04:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		77 - 120		11/22/20 04:53	1
4-Bromofluorobenzene (Surr)	100		73 - 120		11/22/20 04:53	1
Dibromofluoromethane (Surr)	102		75 - 123		11/22/20 04:53	1
Toluene-d8 (Surr)	103		80 - 120		11/22/20 04:53	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.41	ug/L		11/23/20 15:16	12/04/20 19:41	1
Acenaphthylene	ND		5.0	0.38	ug/L		11/23/20 15:16	12/04/20 19:41	1
Anthracene	ND		5.0	0.28	ug/L		11/23/20 15:16	12/04/20 19:41	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		11/23/20 15:16	12/04/20 19:41	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		11/23/20 15:16	12/04/20 19:41	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		11/23/20 15:16	12/04/20 19:41	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		11/23/20 15:16	12/04/20 19:41	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		11/23/20 15:16	12/04/20 19:41	1
Chrysene	ND		5.0	0.33	ug/L		11/23/20 15:16	12/04/20 19:41	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		11/23/20 15:16	12/04/20 19:41	1
Fluoranthene	ND		5.0	0.40	ug/L		11/23/20 15:16	12/04/20 19:41	1
Fluorene	ND		5.0	0.36	ug/L		11/23/20 15:16	12/04/20 19:41	1
Indeno(1,2,3-c,d)pyrene	ND		5.0	0.47	ug/L		11/23/20 15:16	12/04/20 19:41	1
Naphthalene	ND		5.0	0.76	ug/L		11/23/20 15:16	12/04/20 19:41	1
Phenanthrene	ND		5.0	0.44	ug/L		11/23/20 15:16	12/04/20 19:41	1
Pyrene	ND		5.0	0.34	ug/L		11/23/20 15:16	12/04/20 19:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	95		46 - 120	11/23/20 15:16	12/04/20 19:41	1
2-Fluorobiphenyl	102		48 - 120	11/23/20 15:16	12/04/20 19:41	1
p-Terphenyl-d14	93		60 - 148	11/23/20 15:16	12/04/20 19:41	1

Client Sample ID: MW-9112D

Lab Sample ID: 480-178499-8

Date Collected: 11/18/20 12:25

Matrix: WG

Date Received: 11/19/20 19:06

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			11/22/20 05:18	1
Ethylbenzene	ND		1.0	0.74	ug/L			11/22/20 05:18	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			11/22/20 05:18	1
o-Xylene	ND		1.0	0.76	ug/L			11/22/20 05:18	1
Toluene	ND		1.0	0.51	ug/L			11/22/20 05:18	1
Xylenes, Total	ND		2.0	0.66	ug/L			11/22/20 05:18	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State Electric & Gas
Project/Site: NYSEG - Oneonta

Job ID: 480-178499-1

Client Sample ID: MW-9112D

Lab Sample ID: 480-178499-8

Date Collected: 11/18/20 12:25

Matrix: WG

Date Received: 11/19/20 19:06

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		77 - 120		11/22/20 05:18	1
4-Bromofluorobenzene (Surr)	103		73 - 120		11/22/20 05:18	1
Dibromofluoromethane (Surr)	100		75 - 123		11/22/20 05:18	1
Toluene-d8 (Surr)	104		80 - 120		11/22/20 05:18	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.41	ug/L		11/23/20 15:16	12/04/20 20:11	1
Acenaphthylene	ND		5.0	0.38	ug/L		11/23/20 15:16	12/04/20 20:11	1
Anthracene	ND		5.0	0.28	ug/L		11/23/20 15:16	12/04/20 20:11	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		11/23/20 15:16	12/04/20 20:11	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		11/23/20 15:16	12/04/20 20:11	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		11/23/20 15:16	12/04/20 20:11	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		11/23/20 15:16	12/04/20 20:11	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		11/23/20 15:16	12/04/20 20:11	1
Chrysene	ND		5.0	0.33	ug/L		11/23/20 15:16	12/04/20 20:11	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		11/23/20 15:16	12/04/20 20:11	1
Fluoranthene	ND		5.0	0.40	ug/L		11/23/20 15:16	12/04/20 20:11	1
Fluorene	ND		5.0	0.36	ug/L		11/23/20 15:16	12/04/20 20:11	1
Indeno(1,2,3-c,d)pyrene	ND		5.0	0.47	ug/L		11/23/20 15:16	12/04/20 20:11	1
Naphthalene	ND		5.0	0.76	ug/L		11/23/20 15:16	12/04/20 20:11	1
Phenanthrene	ND		5.0	0.44	ug/L		11/23/20 15:16	12/04/20 20:11	1
Pyrene	ND		5.0	0.34	ug/L		11/23/20 15:16	12/04/20 20:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	89		46 - 120	11/23/20 15:16	12/04/20 20:11	1
2-Fluorobiphenyl	97		48 - 120	11/23/20 15:16	12/04/20 20:11	1
p-Terphenyl-d14	91		60 - 148	11/23/20 15:16	12/04/20 20:11	1

Client Sample ID: MW-9502S

Lab Sample ID: 480-178499-9

Date Collected: 11/18/20 13:50

Matrix: WG

Date Received: 11/19/20 19:06

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			11/22/20 05:41	1
Ethylbenzene	ND		1.0	0.74	ug/L			11/22/20 05:41	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			11/22/20 05:41	1
o-Xylene	ND		1.0	0.76	ug/L			11/22/20 05:41	1
Toluene	ND		1.0	0.51	ug/L			11/22/20 05:41	1
Xylenes, Total	ND		2.0	0.66	ug/L			11/22/20 05:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		77 - 120		11/22/20 05:41	1
4-Bromofluorobenzene (Surr)	104		73 - 120		11/22/20 05:41	1
Dibromofluoromethane (Surr)	104		75 - 123		11/22/20 05:41	1
Toluene-d8 (Surr)	105		80 - 120		11/22/20 05:41	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.41	ug/L		11/23/20 15:16	12/04/20 16:21	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State Electric & Gas
Project/Site: NYSEG - Oneonta

Job ID: 480-178499-1

Client Sample ID: MW-9502S

Lab Sample ID: 480-178499-9

Date Collected: 11/18/20 13:50

Matrix: WG

Date Received: 11/19/20 19:06

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	ND		5.0	0.38	ug/L		11/23/20 15:16	12/04/20 16:21	1
Anthracene	ND		5.0	0.28	ug/L		11/23/20 15:16	12/04/20 16:21	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		11/23/20 15:16	12/04/20 16:21	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		11/23/20 15:16	12/04/20 16:21	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		11/23/20 15:16	12/04/20 16:21	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		11/23/20 15:16	12/04/20 16:21	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		11/23/20 15:16	12/04/20 16:21	1
Chrysene	ND		5.0	0.33	ug/L		11/23/20 15:16	12/04/20 16:21	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		11/23/20 15:16	12/04/20 16:21	1
Fluoranthene	ND		5.0	0.40	ug/L		11/23/20 15:16	12/04/20 16:21	1
Fluorene	ND		5.0	0.36	ug/L		11/23/20 15:16	12/04/20 16:21	1
Indeno(1,2,3-c,d)pyrene	ND		5.0	0.47	ug/L		11/23/20 15:16	12/04/20 16:21	1
Naphthalene	ND		5.0	0.76	ug/L		11/23/20 15:16	12/04/20 16:21	1
Phenanthrene	ND		5.0	0.44	ug/L		11/23/20 15:16	12/04/20 16:21	1
Pyrene	ND		5.0	0.34	ug/L		11/23/20 15:16	12/04/20 16:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	95		46 - 120	11/23/20 15:16	12/04/20 16:21	1
2-Fluorobiphenyl	102		48 - 120	11/23/20 15:16	12/04/20 16:21	1
p-Terphenyl-d14	82		60 - 148	11/23/20 15:16	12/04/20 16:21	1

Client Sample ID: PTMW-0202

Lab Sample ID: 480-178499-10

Date Collected: 11/18/20 11:50

Matrix: WG

Date Received: 11/19/20 19:06

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	560	E	1.0	0.41	ug/L			11/22/20 06:05	1
Ethylbenzene	0.98	J	1.0	0.74	ug/L			11/22/20 06:05	1
m-Xylene & p-Xylene	2.9		2.0	0.66	ug/L			11/22/20 06:05	1
o-Xylene	11		1.0	0.76	ug/L			11/22/20 06:05	1
Toluene	0.64	J	1.0	0.51	ug/L			11/22/20 06:05	1
Xylenes, Total	14		2.0	0.66	ug/L			11/22/20 06:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		77 - 120		11/22/20 06:05	1
4-Bromofluorobenzene (Surr)	106		73 - 120		11/22/20 06:05	1
Dibromofluoromethane (Surr)	98		75 - 123		11/22/20 06:05	1
Toluene-d8 (Surr)	106		80 - 120		11/22/20 06:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	580		10	4.1	ug/L			11/23/20 13:42	10
Ethylbenzene	ND		10	7.4	ug/L			11/23/20 13:42	10
m-Xylene & p-Xylene	ND		20	6.6	ug/L			11/23/20 13:42	10
o-Xylene	11		10	7.6	ug/L			11/23/20 13:42	10
Toluene	ND		10	5.1	ug/L			11/23/20 13:42	10
Xylenes, Total	11	J	20	6.6	ug/L			11/23/20 13:42	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		77 - 120		11/23/20 13:42	10

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State Electric & Gas
Project/Site: NYSEG - Oneonta

Job ID: 480-178499-1

Client Sample ID: PTMW-0202

Lab Sample ID: 480-178499-10

Date Collected: 11/18/20 11:50

Matrix: WG

Date Received: 11/19/20 19:06

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		73 - 120		11/23/20 13:42	10
Dibromofluoromethane (Surr)	100		75 - 123		11/23/20 13:42	10
Toluene-d8 (Surr)	106		80 - 120		11/23/20 13:42	10

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	73		25	2.1	ug/L		11/23/20 15:16	12/04/20 20:39	5
Acenaphthylene	ND		25	1.9	ug/L		11/23/20 15:16	12/04/20 20:39	5
Anthracene	ND		25	1.4	ug/L		11/23/20 15:16	12/04/20 20:39	5
Benzo(a)anthracene	ND		25	1.8	ug/L		11/23/20 15:16	12/04/20 20:39	5
Benzo(a)pyrene	ND		25	2.4	ug/L		11/23/20 15:16	12/04/20 20:39	5
Benzo(b)fluoranthene	ND		25	1.7	ug/L		11/23/20 15:16	12/04/20 20:39	5
Benzo(g,h,i)perylene	ND		25	1.8	ug/L		11/23/20 15:16	12/04/20 20:39	5
Benzo(k)fluoranthene	ND		25	3.7	ug/L		11/23/20 15:16	12/04/20 20:39	5
Chrysene	ND		25	1.7	ug/L		11/23/20 15:16	12/04/20 20:39	5
Dibenz(a,h)anthracene	ND		25	2.1	ug/L		11/23/20 15:16	12/04/20 20:39	5
Fluoranthene	ND		25	2.0	ug/L		11/23/20 15:16	12/04/20 20:39	5
Fluorene	15	J	25	1.8	ug/L		11/23/20 15:16	12/04/20 20:39	5
Indeno(1,2,3-c,d)pyrene	ND		25	2.4	ug/L		11/23/20 15:16	12/04/20 20:39	5
Naphthalene	110		25	3.8	ug/L		11/23/20 15:16	12/04/20 20:39	5
Phenanthrene	3.2	J	25	2.2	ug/L		11/23/20 15:16	12/04/20 20:39	5
Pyrene	ND		25	1.7	ug/L		11/23/20 15:16	12/04/20 20:39	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	86		46 - 120	11/23/20 15:16	12/04/20 20:39	5
2-Fluorobiphenyl	97		48 - 120	11/23/20 15:16	12/04/20 20:39	5
p-Terphenyl-d14	72		60 - 148	11/23/20 15:16	12/04/20 20:39	5

Client Sample ID: DUP-111820

Lab Sample ID: 480-178499-11

Date Collected: 11/18/20 00:00

Matrix: Water

Date Received: 11/19/20 19:06

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	580	E	1.0	0.41	ug/L			11/22/20 06:29	1
Ethylbenzene	0.99	J	1.0	0.74	ug/L			11/22/20 06:29	1
m-Xylene & p-Xylene	2.8		2.0	0.66	ug/L			11/22/20 06:29	1
o-Xylene	11		1.0	0.76	ug/L			11/22/20 06:29	1
Toluene	0.70	J	1.0	0.51	ug/L			11/22/20 06:29	1
Xylenes, Total	14		2.0	0.66	ug/L			11/22/20 06:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		77 - 120		11/22/20 06:29	1
4-Bromofluorobenzene (Surr)	104		73 - 120		11/22/20 06:29	1
Dibromofluoromethane (Surr)	104		75 - 123		11/22/20 06:29	1
Toluene-d8 (Surr)	105		80 - 120		11/22/20 06:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	570		10	4.1	ug/L			11/23/20 14:07	10

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Client Sample Results

Client: New York State Electric & Gas
Project/Site: NYSEG - Oneonta

Job ID: 480-178499-1

Client Sample ID: DUP-111820

Lab Sample ID: 480-178499-11

Date Collected: 11/18/20 00:00

Matrix: Water

Date Received: 11/19/20 19:06

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		10	7.4	ug/L			11/23/20 14:07	10
m-Xylene & p-Xylene	ND		20	6.6	ug/L			11/23/20 14:07	10
o-Xylene	11		10	7.6	ug/L			11/23/20 14:07	10
Toluene	ND		10	5.1	ug/L			11/23/20 14:07	10
Xylenes, Total	11 J		20	6.6	ug/L			11/23/20 14:07	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		77 - 120		11/23/20 14:07	10
4-Bromofluorobenzene (Surr)	103		73 - 120		11/23/20 14:07	10
Dibromofluoromethane (Surr)	99		75 - 123		11/23/20 14:07	10
Toluene-d8 (Surr)	104		80 - 120		11/23/20 14:07	10

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	68		25	2.1	ug/L		11/23/20 15:16	12/04/20 21:08	5
Acenaphthylene	ND		25	1.9	ug/L		11/23/20 15:16	12/04/20 21:08	5
Anthracene	ND		25	1.4	ug/L		11/23/20 15:16	12/04/20 21:08	5
Benzo(a)anthracene	ND		25	1.8	ug/L		11/23/20 15:16	12/04/20 21:08	5
Benzo(a)pyrene	ND		25	2.4	ug/L		11/23/20 15:16	12/04/20 21:08	5
Benzo(b)fluoranthene	ND		25	1.7	ug/L		11/23/20 15:16	12/04/20 21:08	5
Benzo(g,h,i)perylene	ND		25	1.8	ug/L		11/23/20 15:16	12/04/20 21:08	5
Benzo(k)fluoranthene	ND		25	3.7	ug/L		11/23/20 15:16	12/04/20 21:08	5
Chrysene	ND		25	1.7	ug/L		11/23/20 15:16	12/04/20 21:08	5
Dibenz(a,h)anthracene	ND		25	2.1	ug/L		11/23/20 15:16	12/04/20 21:08	5
Fluoranthene	ND		25	2.0	ug/L		11/23/20 15:16	12/04/20 21:08	5
Fluorene	14 J		25	1.8	ug/L		11/23/20 15:16	12/04/20 21:08	5
Indeno(1,2,3-c,d)pyrene	ND		25	2.4	ug/L		11/23/20 15:16	12/04/20 21:08	5
Naphthalene	95		25	3.8	ug/L		11/23/20 15:16	12/04/20 21:08	5
Phenanthrene	3.3 J		25	2.2	ug/L		11/23/20 15:16	12/04/20 21:08	5
Pyrene	ND		25	1.7	ug/L		11/23/20 15:16	12/04/20 21:08	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	81		46 - 120	11/23/20 15:16	12/04/20 21:08	5
2-Fluorobiphenyl	96		48 - 120	11/23/20 15:16	12/04/20 21:08	5
p-Terphenyl-d14	72		60 - 148	11/23/20 15:16	12/04/20 21:08	5

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-178499-12

Date Collected: 11/18/20 00:00

Matrix: Water

Date Received: 11/19/20 19:06

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			11/22/20 06:53	1
Ethylbenzene	ND		1.0	0.74	ug/L			11/22/20 06:53	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			11/22/20 06:53	1
o-Xylene	ND		1.0	0.76	ug/L			11/22/20 06:53	1
Toluene	ND		1.0	0.51	ug/L			11/22/20 06:53	1
Xylenes, Total	ND		2.0	0.66	ug/L			11/22/20 06:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		77 - 120		11/22/20 06:53	1

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Client Sample Results

Client: New York State Electric & Gas
Project/Site: NYSEG - Oneonta

Job ID: 480-178499-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-178499-12

Date Collected: 11/18/20 00:00

Matrix: Water

Date Received: 11/19/20 19:06

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

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
4-Bromofluorobenzene (Surr)	101		73 - 120		11/22/20 06:53	1
Dibromofluoromethane (Surr)	102		75 - 123		11/22/20 06:53	1
Toluene-d8 (Surr)	102		80 - 120		11/22/20 06:53	1

Surrogate Summary

Client: New York State Electric & Gas
Project/Site: NYSEG - Oneonta

Job ID: 480-178499-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (77-120)	BFB (73-120)	DBFM (75-123)	TOL (80-120)
480-178499-11	DUP-111820	109	104	104	105
480-178499-11 - DL	DUP-111820	103	103	99	104
480-178499-12	TRIP BLANK	107	101	102	102
LCS 480-560324/5	Lab Control Sample	105	106	106	108
LCS 480-560434/4	Lab Control Sample	100	106	102	105
MB 480-560324/7	Method Blank	114	105	108	105
MB 480-560434/8	Method Blank	99	98	98	101

Surrogate Legend

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

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

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

Matrix: WG

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (77-120)	BFB (73-120)	DBFM (75-123)	TOL (80-120)
480-178499-1	MW-8604S	113	104	107	105
480-178499-2	MW-9114S	108	106	103	107
480-178499-3	MW-8806S	110	106	104	106
480-178499-4	MW-0201	109	103	106	102
480-178499-5	MW-9111S	107	105	106	103
480-178499-6	MW-0203	109	104	105	104
480-178499-7	MW-9112S	108	100	102	103
480-178499-8	MW-9112D	108	103	100	104
480-178499-9	MW-9502S	110	104	104	105
480-178499-9 MS	MW-9502S	110	103	108	104
480-178499-9 MSD	MW-9502S	108	105	104	106
480-178499-10	PTMW-0202	107	106	98	106
480-178499-10 - DL	PTMW-0202	104	104	100	106

Surrogate Legend

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

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		NBZ (46-120)	FBP (48-120)	TPHd14 (60-148)
480-178499-11	DUP-111820	81	96	72
LCS 480-560561/2-A	Lab Control Sample	94	103	107
MB 480-560561/1-A	Method Blank	93	101	114

Surrogate Legend

NBZ = Nitrobenzene-d5

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Surrogate Summary

Client: New York State Electric & Gas

Job ID: 480-178499-1

Project/Site: NYSEG - Oneonta

FBP = 2-Fluorobiphenyl

TPHd14 = p-Terphenyl-d14

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: WG

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	NBZ	FBP	TPHd14
		(46-120)	(48-120)	(60-148)
480-178499-1	MW-8604S	94	103	89
480-178499-2	MW-9114S	97	102	84
480-178499-3	MW-8806S	88	94	93
480-178499-4	MW-0201	94	101	92
480-178499-5	MW-9111S	89	95	86
480-178499-6	MW-0203	90	99	89
480-178499-7	MW-9112S	95	102	93
480-178499-8	MW-9112D	89	97	91
480-178499-9	MW-9502S	95	102	82
480-178499-9 MS	MW-9502S	94	100	84
480-178499-9 MSD	MW-9502S	83	90	79
480-178499-10	PTMW-0202	86	97	72

Surrogate Legend

NBZ = Nitrobenzene-d5

FBP = 2-Fluorobiphenyl

TPHd14 = p-Terphenyl-d14

QC Sample Results

Client: New York State Electric & Gas
Project/Site: NYSEG - Oneonta

Job ID: 480-178499-1

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

Lab Sample ID: MB 480-560324/7

Matrix: Water

Analysis Batch: 560324

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			11/21/20 23:39	1
Ethylbenzene	ND		1.0	0.74	ug/L			11/21/20 23:39	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			11/21/20 23:39	1
o-Xylene	ND		1.0	0.76	ug/L			11/21/20 23:39	1
Toluene	ND		1.0	0.51	ug/L			11/21/20 23:39	1
Xylenes, Total	ND		2.0	0.66	ug/L			11/21/20 23:39	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		77 - 120		11/21/20 23:39	1
4-Bromofluorobenzene (Surr)	105		73 - 120		11/21/20 23:39	1
Dibromofluoromethane (Surr)	108		75 - 123		11/21/20 23:39	1
Toluene-d8 (Surr)	105		80 - 120		11/21/20 23:39	1

Lab Sample ID: LCS 480-560324/5

Matrix: Water

Analysis Batch: 560324

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	25.0	25.4		ug/L		102	71 - 124
Ethylbenzene	25.0	26.1		ug/L		104	77 - 123
m-Xylene & p-Xylene	25.0	25.8		ug/L		103	76 - 122
o-Xylene	25.0	26.3		ug/L		105	76 - 122
Toluene	25.0	26.8		ug/L		107	80 - 122
Xylenes, Total	50.0	52.1		ug/L		104	76 - 122

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	105		77 - 120
4-Bromofluorobenzene (Surr)	106		73 - 120
Dibromofluoromethane (Surr)	106		75 - 123
Toluene-d8 (Surr)	108		80 - 120

Lab Sample ID: 480-178499-9 MS

Matrix: WG

Analysis Batch: 560324

Client Sample ID: MW-9502S

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		25.0	27.9		ug/L		112	71 - 124
Ethylbenzene	ND		25.0	27.2		ug/L		109	77 - 123
m-Xylene & p-Xylene	ND		25.0	26.6		ug/L		107	76 - 122
o-Xylene	ND		25.0	27.4		ug/L		109	76 - 122
Toluene	ND		25.0	27.3		ug/L		109	80 - 122
Xylenes, Total	ND		50.0	54.0		ug/L		108	76 - 122

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	110		77 - 120
4-Bromofluorobenzene (Surr)	103		73 - 120
Dibromofluoromethane (Surr)	108		75 - 123

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QC Sample Results

Client: New York State Electric & Gas
Project/Site: NYSEG - Oneonta

Job ID: 480-178499-1

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

Lab Sample ID: 480-178499-9 MS

Matrix: WG

Analysis Batch: 560324

Client Sample ID: MW-9502S

Prep Type: Total/NA

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
Toluene-d8 (Surr)	104		80 - 120

Lab Sample ID: 480-178499-9 MSD

Matrix: WG

Analysis Batch: 560324

Client Sample ID: MW-9502S

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		25.0	27.0		ug/L		108	71 - 124	3	13
Ethylbenzene	ND		25.0	26.5		ug/L		106	77 - 123	3	15
m-Xylene & p-Xylene	ND		25.0	26.0		ug/L		104	76 - 122	3	16
o-Xylene	ND		25.0	26.7		ug/L		107	76 - 122	2	16
Toluene	ND		25.0	27.6		ug/L		111	80 - 122	1	15
Xylenes, Total	ND		50.0	52.7		ug/L		105	76 - 122	2	16

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	108		77 - 120
4-Bromofluorobenzene (Surr)	105		73 - 120
Dibromofluoromethane (Surr)	104		75 - 123
Toluene-d8 (Surr)	106		80 - 120

Lab Sample ID: MB 480-560434/8

Matrix: Water

Analysis Batch: 560434

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			11/23/20 11:51	1
Ethylbenzene	ND		1.0	0.74	ug/L			11/23/20 11:51	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			11/23/20 11:51	1
o-Xylene	ND		1.0	0.76	ug/L			11/23/20 11:51	1
Toluene	ND		1.0	0.51	ug/L			11/23/20 11:51	1
Xylenes, Total	ND		2.0	0.66	ug/L			11/23/20 11:51	1

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		77 - 120		11/23/20 11:51	1
4-Bromofluorobenzene (Surr)	98		73 - 120		11/23/20 11:51	1
Dibromofluoromethane (Surr)	98		75 - 123		11/23/20 11:51	1
Toluene-d8 (Surr)	101		80 - 120		11/23/20 11:51	1

Lab Sample ID: LCS 480-560434/4

Matrix: Water

Analysis Batch: 560434

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	25.0	23.1		ug/L		92	71 - 124
Ethylbenzene	25.0	23.6		ug/L		94	77 - 123
m-Xylene & p-Xylene	25.0	23.8		ug/L		95	76 - 122
o-Xylene	25.0	24.5		ug/L		98	76 - 122
Toluene	25.0	23.9		ug/L		96	80 - 122

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: New York State Electric & Gas
Project/Site: NYSEG - Oneonta

Job ID: 480-178499-1

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

Lab Sample ID: LCS 480-560434/4

Matrix: Water

Analysis Batch: 560434

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Xylenes, Total	50.0	48.3		ug/L		97	76 - 122

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		77 - 120
4-Bromofluorobenzene (Surr)	106		73 - 120
Dibromofluoromethane (Surr)	102		75 - 123
Toluene-d8 (Surr)	105		80 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-560561/1-A

Matrix: Water

Analysis Batch: 561842

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 560561

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.41	ug/L		11/23/20 15:16	12/04/20 00:08	1
Acenaphthylene	ND		5.0	0.38	ug/L		11/23/20 15:16	12/04/20 00:08	1
Anthracene	ND		5.0	0.28	ug/L		11/23/20 15:16	12/04/20 00:08	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		11/23/20 15:16	12/04/20 00:08	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		11/23/20 15:16	12/04/20 00:08	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		11/23/20 15:16	12/04/20 00:08	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		11/23/20 15:16	12/04/20 00:08	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		11/23/20 15:16	12/04/20 00:08	1
Chrysene	ND		5.0	0.33	ug/L		11/23/20 15:16	12/04/20 00:08	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		11/23/20 15:16	12/04/20 00:08	1
Fluoranthene	ND		5.0	0.40	ug/L		11/23/20 15:16	12/04/20 00:08	1
Fluorene	ND		5.0	0.36	ug/L		11/23/20 15:16	12/04/20 00:08	1
Indeno(1,2,3-c,d)pyrene	ND		5.0	0.47	ug/L		11/23/20 15:16	12/04/20 00:08	1
Naphthalene	ND		5.0	0.76	ug/L		11/23/20 15:16	12/04/20 00:08	1
Phenanthrene	ND		5.0	0.44	ug/L		11/23/20 15:16	12/04/20 00:08	1
Pyrene	ND		5.0	0.34	ug/L		11/23/20 15:16	12/04/20 00:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	93		46 - 120	11/23/20 15:16	12/04/20 00:08	1
2-Fluorobiphenyl	101		48 - 120	11/23/20 15:16	12/04/20 00:08	1
p-Terphenyl-d14	114		60 - 148	11/23/20 15:16	12/04/20 00:08	1

Lab Sample ID: LCS 480-560561/2-A

Matrix: Water

Analysis Batch: 561842

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 560561

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	32.0	33.6		ug/L		105	60 - 120
Acenaphthylene	32.0	33.8		ug/L		106	63 - 120
Anthracene	32.0	33.7		ug/L		105	67 - 120
Benzo(a)anthracene	32.0	34.8		ug/L		109	70 - 121
Benzo(a)pyrene	32.0	36.5		ug/L		114	60 - 123
Benzo(b)fluoranthene	32.0	40.0		ug/L		125	66 - 126

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: New York State Electric & Gas
Project/Site: NYSEG - Oneonta

Job ID: 480-178499-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-560561/2-A

Matrix: Water

Analysis Batch: 561842

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 560561

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo(g,h,i)perylene	32.0	38.8		ug/L		121	66 - 150
Benzo(k)fluoranthene	32.0	38.2		ug/L		119	65 - 124
Chrysene	32.0	33.1		ug/L		103	69 - 120
Dibenz(a,h)anthracene	32.0	37.4		ug/L		117	65 - 135
Fluoranthene	32.0	34.8		ug/L		109	69 - 126
Fluorene	32.0	35.1		ug/L		110	66 - 120
Indeno(1,2,3-c,d)pyrene	32.0	37.3		ug/L		117	69 - 146
Naphthalene	32.0	30.8		ug/L		96	57 - 120
Phenanthrene	32.0	34.1		ug/L		107	68 - 120
Pyrene	32.0	36.2		ug/L		113	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5	94		46 - 120
2-Fluorobiphenyl	103		48 - 120
p-Terphenyl-d14	107		60 - 148

Lab Sample ID: 480-178499-9 MS

Matrix: WG

Analysis Batch: 562011

Client Sample ID: MW-9502S

Prep Type: Total/NA

Prep Batch: 560561

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	ND		32.0	33.1		ug/L		103	48 - 120
Acenaphthylene	ND		32.0	32.6		ug/L		102	63 - 120
Anthracene	ND		32.0	33.5		ug/L		105	65 - 122
Benzo(a)anthracene	ND		32.0	31.7		ug/L		99	43 - 124
Benzo(a)pyrene	ND		32.0	34.4		ug/L		107	23 - 125
Benzo(b)fluoranthene	ND		32.0	37.6		ug/L		117	27 - 127
Benzo(g,h,i)perylene	ND		32.0	35.4		ug/L		111	16 - 147
Benzo(k)fluoranthene	ND		32.0	35.8		ug/L		112	20 - 124
Chrysene	ND		32.0	31.0		ug/L		97	44 - 122
Dibenz(a,h)anthracene	ND		32.0	33.0		ug/L		103	16 - 139
Fluoranthene	ND		32.0	33.7		ug/L		105	63 - 129
Fluorene	ND		32.0	34.4		ug/L		107	62 - 120
Indeno(1,2,3-c,d)pyrene	ND		32.0	34.6		ug/L		108	16 - 140
Naphthalene	ND		32.0	30.8		ug/L		96	45 - 120
Phenanthrene	ND		32.0	33.9		ug/L		106	65 - 122
Pyrene	ND		32.0	34.9		ug/L		109	58 - 128

Surrogate	MS %Recovery	MS Qualifier	Limits
Nitrobenzene-d5	94		46 - 120
2-Fluorobiphenyl	100		48 - 120
p-Terphenyl-d14	84		60 - 148

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: New York State Electric & Gas
Project/Site: NYSEG - Oneonta

Job ID: 480-178499-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-178499-9 MSD

Matrix: WG

Analysis Batch: 562011

Client Sample ID: MW-9502S

Prep Type: Total/NA

Prep Batch: 560561

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	ND		32.0	30.4		ug/L		95	48 - 120	8	24
Acenaphthylene	ND		32.0	29.7		ug/L		93	63 - 120	9	18
Anthracene	ND		32.0	29.9		ug/L		94	65 - 122	11	15
Benzo(a)anthracene	ND		32.0	29.2		ug/L		91	43 - 124	8	15
Benzo(a)pyrene	ND		32.0	31.6		ug/L		99	23 - 125	8	15
Benzo(b)fluoranthene	ND		32.0	33.9		ug/L		106	27 - 127	10	15
Benzo(g,h,i)perylene	ND		32.0	32.8		ug/L		102	16 - 147	8	15
Benzo(k)fluoranthene	ND		32.0	33.3		ug/L		104	20 - 124	7	22
Chrysene	ND		32.0	28.4		ug/L		89	44 - 122	9	15
Dibenz(a,h)anthracene	ND		32.0	29.6		ug/L		93	16 - 139	11	15
Fluoranthene	ND		32.0	30.2		ug/L		94	63 - 129	11	15
Fluorene	ND		32.0	31.5		ug/L		98	62 - 120	9	15
Indeno(1,2,3-c,d)pyrene	ND		32.0	31.5		ug/L		99	16 - 140	9	15
Naphthalene	ND		32.0	27.3		ug/L		85	45 - 120	12	29
Phenanthrene	ND		32.0	30.5		ug/L		95	65 - 122	10	15
Pyrene	ND		32.0	31.5		ug/L		98	58 - 128	10	19

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Nitrobenzene-d5	83		46 - 120
2-Fluorobiphenyl	90		48 - 120
p-Terphenyl-d14	79		60 - 148

QC Association Summary

Client: New York State Electric & Gas
Project/Site: NYSEG - Oneonta

Job ID: 480-178499-1

GC/MS VOA

Analysis Batch: 560324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-178499-1	MW-8604S	Total/NA	WG	8260C	
480-178499-2	MW-9114S	Total/NA	WG	8260C	
480-178499-3	MW-8806S	Total/NA	WG	8260C	
480-178499-4	MW-0201	Total/NA	WG	8260C	
480-178499-5	MW-9111S	Total/NA	WG	8260C	
480-178499-6	MW-0203	Total/NA	WG	8260C	
480-178499-7	MW-9112S	Total/NA	WG	8260C	
480-178499-8	MW-9112D	Total/NA	WG	8260C	
480-178499-9	MW-9502S	Total/NA	WG	8260C	
480-178499-10	PTMW-0202	Total/NA	WG	8260C	
480-178499-11	DUP-111820	Total/NA	Water	8260C	
480-178499-12	TRIP BLANK	Total/NA	Water	8260C	
MB 480-560324/7	Method Blank	Total/NA	Water	8260C	
LCS 480-560324/5	Lab Control Sample	Total/NA	Water	8260C	
480-178499-9 MS	MW-9502S	Total/NA	WG	8260C	
480-178499-9 MSD	MW-9502S	Total/NA	WG	8260C	

Analysis Batch: 560434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-178499-10 - DL	PTMW-0202	Total/NA	WG	8260C	
480-178499-11 - DL	DUP-111820	Total/NA	Water	8260C	
MB 480-560434/8	Method Blank	Total/NA	Water	8260C	
LCS 480-560434/4	Lab Control Sample	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 560561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-178499-1	MW-8604S	Total/NA	WG	3510C	
480-178499-2	MW-9114S	Total/NA	WG	3510C	
480-178499-3	MW-8806S	Total/NA	WG	3510C	
480-178499-4	MW-0201	Total/NA	WG	3510C	
480-178499-5	MW-9111S	Total/NA	WG	3510C	
480-178499-6	MW-0203	Total/NA	WG	3510C	
480-178499-7	MW-9112S	Total/NA	WG	3510C	
480-178499-8	MW-9112D	Total/NA	WG	3510C	
480-178499-9	MW-9502S	Total/NA	WG	3510C	
480-178499-10	PTMW-0202	Total/NA	WG	3510C	
480-178499-11	DUP-111820	Total/NA	Water	3510C	
MB 480-560561/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-560561/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-178499-9 MS	MW-9502S	Total/NA	WG	3510C	
480-178499-9 MSD	MW-9502S	Total/NA	WG	3510C	

Analysis Batch: 561842

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-560561/1-A	Method Blank	Total/NA	Water	8270D	560561
LCS 480-560561/2-A	Lab Control Sample	Total/NA	Water	8270D	560561

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QC Association Summary

Client: New York State Electric & Gas
Project/Site: NYSEG - Oneonta

Job ID: 480-178499-1

GC/MS Semi VOA

Analysis Batch: 562011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-178499-1	MW-8604S	Total/NA	WG	8270D	560561
480-178499-2	MW-9114S	Total/NA	WG	8270D	560561
480-178499-3	MW-8806S	Total/NA	WG	8270D	560561
480-178499-4	MW-0201	Total/NA	WG	8270D	560561
480-178499-5	MW-9111S	Total/NA	WG	8270D	560561
480-178499-6	MW-0203	Total/NA	WG	8270D	560561
480-178499-7	MW-9112S	Total/NA	WG	8270D	560561
480-178499-8	MW-9112D	Total/NA	WG	8270D	560561
480-178499-9	MW-9502S	Total/NA	WG	8270D	560561
480-178499-10	PTMW-0202	Total/NA	WG	8270D	560561
480-178499-11	DUP-111820	Total/NA	Water	8270D	560561
480-178499-9 MS	MW-9502S	Total/NA	WG	8270D	560561
480-178499-9 MSD	MW-9502S	Total/NA	WG	8270D	560561

Lab Chronicle

Client: New York State Electric & Gas
Project/Site: NYSEG - Oneonta

Job ID: 480-178499-1

Client Sample ID: MW-8604S

Lab Sample ID: 480-178499-1

Date Collected: 11/18/20 09:15

Matrix: WG

Date Received: 11/19/20 19:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	560324	11/22/20 02:27	AMM	TAL BUF
Total/NA	Prep	3510C			560561	11/23/20 15:16	ATG	TAL BUF
Total/NA	Analysis	8270D		1	562011	12/04/20 16:50	PJQ	TAL BUF

Client Sample ID: MW-9114S

Lab Sample ID: 480-178499-2

Date Collected: 11/18/20 15:45

Matrix: WG

Date Received: 11/19/20 19:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	560324	11/22/20 02:52	AMM	TAL BUF
Total/NA	Prep	3510C			560561	11/23/20 15:16	ATG	TAL BUF
Total/NA	Analysis	8270D		1	562011	12/04/20 17:19	PJQ	TAL BUF

Client Sample ID: MW-8806S

Lab Sample ID: 480-178499-3

Date Collected: 11/18/20 16:35

Matrix: WG

Date Received: 11/19/20 19:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	560324	11/22/20 03:16	AMM	TAL BUF
Total/NA	Prep	3510C			560561	11/23/20 15:16	ATG	TAL BUF
Total/NA	Analysis	8270D		1	562011	12/04/20 17:48	PJQ	TAL BUF

Client Sample ID: MW-0201

Lab Sample ID: 480-178499-4

Date Collected: 11/18/20 09:35

Matrix: WG

Date Received: 11/19/20 19:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	560324	11/22/20 03:40	AMM	TAL BUF
Total/NA	Prep	3510C			560561	11/23/20 15:16	ATG	TAL BUF
Total/NA	Analysis	8270D		1	562011	12/04/20 18:16	PJQ	TAL BUF

Client Sample ID: MW-9111S

Lab Sample ID: 480-178499-5

Date Collected: 11/18/20 10:30

Matrix: WG

Date Received: 11/19/20 19:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	560324	11/22/20 04:05	AMM	TAL BUF
Total/NA	Prep	3510C			560561	11/23/20 15:16	ATG	TAL BUF
Total/NA	Analysis	8270D		1	562011	12/04/20 18:44	PJQ	TAL BUF

Client Sample ID: MW-0203

Lab Sample ID: 480-178499-6

Date Collected: 11/18/20 11:00

Matrix: WG

Date Received: 11/19/20 19:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	560324	11/22/20 04:29	AMM	TAL BUF

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Lab Chronicle

Client: New York State Electric & Gas
Project/Site: NYSEG - Oneonta

Job ID: 480-178499-1

Client Sample ID: MW-0203

Lab Sample ID: 480-178499-6

Date Collected: 11/18/20 11:00

Matrix: WG

Date Received: 11/19/20 19:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			560561	11/23/20 15:16	ATG	TAL BUF
Total/NA	Analysis	8270D		1	562011	12/04/20 19:13	PJQ	TAL BUF

Client Sample ID: MW-9112S

Lab Sample ID: 480-178499-7

Date Collected: 11/18/20 13:55

Matrix: WG

Date Received: 11/19/20 19:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	560324	11/22/20 04:53	AMM	TAL BUF
Total/NA	Prep	3510C			560561	11/23/20 15:16	ATG	TAL BUF
Total/NA	Analysis	8270D		1	562011	12/04/20 19:41	PJQ	TAL BUF

Client Sample ID: MW-9112D

Lab Sample ID: 480-178499-8

Date Collected: 11/18/20 12:25

Matrix: WG

Date Received: 11/19/20 19:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	560324	11/22/20 05:18	AMM	TAL BUF
Total/NA	Prep	3510C			560561	11/23/20 15:16	ATG	TAL BUF
Total/NA	Analysis	8270D		1	562011	12/04/20 20:11	PJQ	TAL BUF

Client Sample ID: MW-9502S

Lab Sample ID: 480-178499-9

Date Collected: 11/18/20 13:50

Matrix: WG

Date Received: 11/19/20 19:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	560324	11/22/20 05:41	AMM	TAL BUF
Total/NA	Prep	3510C			560561	11/23/20 15:16	ATG	TAL BUF
Total/NA	Analysis	8270D		1	562011	12/04/20 16:21	PJQ	TAL BUF

Client Sample ID: PTMW-0202

Lab Sample ID: 480-178499-10

Date Collected: 11/18/20 11:50

Matrix: WG

Date Received: 11/19/20 19:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	560324	11/22/20 06:05	AMM	TAL BUF
Total/NA	Analysis	8260C	DL	10	560434	11/23/20 13:42	AMM	TAL BUF
Total/NA	Prep	3510C			560561	11/23/20 15:16	ATG	TAL BUF
Total/NA	Analysis	8270D		5	562011	12/04/20 20:39	PJQ	TAL BUF

Client Sample ID: DUP-111820

Lab Sample ID: 480-178499-11

Date Collected: 11/18/20 00:00

Matrix: Water

Date Received: 11/19/20 19:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	560324	11/22/20 06:29	AMM	TAL BUF

Eurofins TestAmerica, Buffalo

Lab Chronicle

Client: New York State Electric & Gas
Project/Site: NYSEG - Oneonta

Job ID: 480-178499-1

Client Sample ID: DUP-111820

Lab Sample ID: 480-178499-11

Date Collected: 11/18/20 00:00

Matrix: Water

Date Received: 11/19/20 19:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C	DL	10	560434	11/23/20 14:07	AMM	TAL BUF
Total/NA	Prep	3510C			560561	11/23/20 15:16	ATG	TAL BUF
Total/NA	Analysis	8270D		5	562011	12/04/20 21:08	PJQ	TAL BUF

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-178499-12

Date Collected: 11/18/20 00:00

Matrix: Water

Date Received: 11/19/20 19:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	560324	11/22/20 06:53	AMM	TAL BUF

Laboratory References:

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

Accreditation/Certification Summary

Client: New York State Electric & Gas
Project/Site: NYSEG - Oneonta

Job ID: 480-178499-1

Laboratory: Eurofins TestAmerica, Buffalo

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-21

1

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Method Summary

Client: New York State Electric & Gas
Project/Site: NYSEG - Oneonta

Job ID: 480-178499-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF

Protocol References:

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

Laboratory References:

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

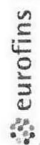
Sample Summary

Client: New York State Electric & Gas
Project/Site: NYSEG - Oneonta

Job ID: 480-178499-1

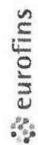
Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-178499-1	MW-8604S	WG	11/18/20 09:15	11/19/20 19:06	
480-178499-2	MW-9114S	WG	11/18/20 15:45	11/19/20 19:06	
480-178499-3	MW-8806S	WG	11/18/20 16:35	11/19/20 19:06	
480-178499-4	MW-0201	WG	11/18/20 09:35	11/19/20 19:06	
480-178499-5	MW-9111S	WG	11/18/20 10:30	11/19/20 19:06	
480-178499-6	MW-0203	WG	11/18/20 11:00	11/19/20 19:06	
480-178499-7	MW-9112S	WG	11/18/20 13:55	11/19/20 19:06	
480-178499-8	MW-9112D	WG	11/18/20 12:25	11/19/20 19:06	
480-178499-9	MW-9502S	WG	11/18/20 13:50	11/19/20 19:06	
480-178499-10	PTMW-0202	WG	11/18/20 11:50	11/19/20 19:06	
480-178499-11	DUP-111820	Water	11/18/20 00:00	11/19/20 19:06	
480-178499-12	TRIP BLANK	Water	11/18/20 00:00	11/19/20 19:06	

Chain of Custody Record

Environment Testing
America

Client Information Client Contact: Ryan Clare Company: ARCADIS U.S. Inc. Address: 100 Chestnut Street Suite 1020 City: Rochester State, Zip: NY, 14604 Phone: 585-880-7747 Email: Ryan.Clare@arcadis.com Project Name: NYSEG - Oneonta Site: New York		Lab PM: Schove, John R E-Mail: John.Schove@Eurofinset.com Carrier Tracking No(s): COC No: 480-152695-29428.1 Page: Page 1 of 2 Job #:								
Due Date Requested: TAT Requested (days): Standard (10)		Analysis Requested Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid M - Hexane N - None O - AsNaO2 P - Na2O4S								
PO #: 4504497349 WO #: NYSEG Oneonta/John Ruspantini Project #: 48004125 SSOW#:		Barcode: 480-178499 Chain of Custody								
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=tissue, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D - PAHs	8260C - BTEX	Total Number of	Special Instructions/Note:
MW-8604S	11/18/20	0915	G	Water			X	X	5	
MW-9114S	11/18/20	1545	G	Water			X	X	5	
MW-8806S	11/18/20	1635	G	Water			X	X	5	
MW-0201	11/18/20	0935	G	Water			X	X	5	
MW-9111S	11/18/20	1030	G	Water			X	X	5	
MW-0203	11/18/20	1100	G	Water			X	X	5	
MW-9112S	11/18/20	1355	G	Water			X	X	5	
MW-9112D	11/18/20	1225	G	Water			X	X	5	
MW-9502S	11/18/20	1350	G	Water			X	X	15	
PTMW-0202	11/18/20	1150	G	Water			X	X	5	
DUP-111820	11/18/20	-	G	Water			X	X	5	
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological Deliverable Requested: I, II, III, IV, Other (specify)										
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months Special Instructions/QC Requirements:										
Empty Kit Relinquished by:										
Relinquished by: Ryan Clare Ryan Clare Date/Time: 11/19/20 1541 Company: Arcadis										
Relinquished by: Adam Swanson Adam Swanson Date/Time: 11/19/20 1906 Company: Arcadis										
Relinquished by:										
Custody Seals Intact: ☐ Yes ☐ No Custody Seal No.:										
Cooler Temperature(s) °C and Other Remarks: 2.4, 3.2 #1 ICE										

Chain of Custody Record



Environment Testing
 America

Client Information Client Contact: Ryan Clare Company: ARCADIS U.S. Inc. Address: 100 Chestnut Street Suite 1020 City: Rochester State Zip: NY, 14604 Phone: 585-880-7747 Email: Ryan.Clare@arcadis.com Project Name: NYSEG - Oneonta Site: New York		Lab PM: Schove, John R E-Mail: John.Schove@Eurofinset.com Carrier Tracking No(s): Job #:		COC No: 480-152695-29428.2 Page: Page 2 of 2	
Due Date Requested: TAT Requested (days): 10 (Standard)		Analysis Requested			
PO #: 4504497349 WO #: NYSEG Oneonta/John Ruspantini Project #: 48004125 SSOW#:		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Anichlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:			
Sample Identification TRIP BLANK		Sample Date: - Sample Time: - Sample Type (C=comp, G=grab): G Matrix (W=water, S=solid, O=waste/soil, BT=tissue, A=air): Water		Perform MS/MSD (Yes or No): Field Filtered Sample (Yes or No): 8270D - PAHs: N 8260C - BTEX: X	
Special Instructions/Note: Total Number of containers: 1		Special Instructions/Note:			
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological					
Deliverable Requested: I, II, III, IV, Other (specify)					
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months					
Special Instructions/OC Requirements:					
Relinquished by: Ryan Clare Relinquished by: Adana Svensson Relinquished by:		Date/Time: 11/19/20 1541 Date/Time: 11/19/20 1906 Date/Time:		Company: Arcadis Company: Arcadis Company:	
Custody Seals Intact: ☒ Yes ☐ No		Cooler Temperature(s) °C and Other Remarks:			

Login Sample Receipt Checklist

Client: New York State Electric & Gas

Job Number: 480-178499-1

Login Number: 178499

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Kolb, Chris M

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	ARCADIS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

Appendix C

DUSRs

NYSEG Oneonta Former MGP Site

DATA USABILITY SUMMARY REPORT

Oneonta, New York

Volatile and Semivolatile Analysis

SDG #480-171345-1

Analyses Performed By:
TestAmerica Laboratories
Amherst, New York

Report #39230R
Review Level: Tier III
Project: 30047445.00001



DATA USABILITY SUMMARY REPORT

SUMMARY

This data usability summary report (DUSR) summarizes the review of Sample Delivery Group (SDG) # 480-171345-1 for samples collected in association with the NYSEG Oneonta Former MGP Site. The review was conducted as a Tier III evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis				
					VOC	SVOC	PCB	MET	MISC
MW-8604S	480-171345-1	Water	6/16/2020		X	X			
MW-9114S	480-171345-2	Water	6/16/2020		X	X			
MW-8806S	480-171345-3	Water	6/16/2020		X	X			
MW-0201	480-171345-4	Water	6/16/2020		X	X			
MW-9111S	480-171345-5	Water	6/17/2020		X	X			
MW-0203	480-171345-6	Water	6/16/2020		X	X			
MW-9112S	480-171345-7	Water	6/16/2020		X	X			
MW-9112D	480-171345-8	Water	6/16/2020		X	X			
MW-9502S	480-171345-9	Water	6/17/2020		X	X			
PTMW-0202	480-171345-10	Water	6/16/2020		X	X			
DUP-061620	480-171345-11	Water	6/16/2020	PTMW-0202	X	X			
TRIP BLANK	480-171345-12	Water	6/17/2020		X				

Note:

1. Matrix spike/matrix spike duplicate was performed on sample location MW-9502S for VOCs and SVOCs.

DATA USABILITY SUMMARY REPORT

ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed Chain-of-Custody (COC) form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data Package Completeness and Compliance		X		X	

Note:

QA - Quality Assurance

DATA USABILITY SUMMARY REPORT

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Method 8260C and 8270D. Data were reviewed in accordance with USEPA National Functional Guidelines (October 1999) and applicable Region II SOPs. USEPA NFGs and Region II SOPs were followed for qualification purposes.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
 - U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
 - B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
 - E The compound was quantitated above the calibration range.
 - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
 - J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
 - UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.
 - JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.
 - UB Compound considered non-detect at the listed value due to associated blank contamination.
 - N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
 - R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

DATA USABILITY SUMMARY REPORT

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times/Preservation

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260	Water	14 days from collection to analysis (preserved) 7 days from collection to analysis (non-preserved)	Cool to <6 °C; preserved to a pH of less than 2 s.u.
	Soil	48 hours from collection to extraction and 14 days from extraction to analysis	Cool to <6 °C.

Note:

s.u. Standard units

All samples were analyzed within the specified holding time criteria.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

DATA USABILITY SUMMARY REPORT

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (20%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

4.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits.

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria insure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria require the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

The MS/MSD exhibited acceptable recoveries and RPD between the MS/MSD recoveries.

8. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices and 50% for soil matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices or three times the RL is applied for soil matrices.

Results for duplicate samples are summarized in the following table.

DATA USABILITY SUMMARY REPORT

Sample ID/Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
PTMW-0202/DUP-061620	Benzene	54	55	1.8%
	o-Xylene	0.97 J	0.90 J	AC
	Xylenes, Total	0.97 J	0.90 J	AC

Notes:

AC Acceptable

The calculated RPDs between the parent sample and field duplicate were acceptable.

10. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

Sample results associated with compound that exhibited a concentration greater than the linear range of the instrument calibration are summarized in the following table.

Sample ID	Compound	Original Analysis	Diluted Analysis	Reported Analysis
MW-0201	Benzene	100 E	92 D	92 D

Note: In the instance where both the original analysis and the diluted analysis sample results exhibited a concentration greater than and/or less than the calibration linear range of the instrument; the sample result exhibiting the greatest concentration will be reported as the final result.

Sample results associated with compounds exhibiting concentrations greater than the linear range are qualified as documented in the table below when reported as the final reported sample result.

Reported Sample Results	Qualification
Diluted sample result within calibration range	D
Diluted sample result less than the calibration range	DJ
Diluted sample result greater than the calibration range	EDJ
Original sample result greater than the calibration range	EJ

11. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA USABILITY SUMMARY REPORT

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: SW-846 8260	Reported		Performance Acceptable		Not Required	
	No	Yes	No	Yes		
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)						
Tier II Validation						
Holding times		X		X		
Reporting limits (units)		X		X		
Blanks						
A. Method blanks		X		X		
B. Equipment blanks						
C. Trip blanks		X		X		
Laboratory Control Sample (LCS)		X		X		
Laboratory Control Sample Duplicate(LCSD)	X				X	
LCS/LCSD Precision (RPD)	X				X	
Matrix Spike (MS)		X		X		
Matrix Spike Duplicate(MSD)		X		X		
MS/MSD Precision (RPD)		X		X		
Field/Lab Duplicate (RPD)		X		X		
Surrogate Spike Recoveries		X		X		
Dilution Factor		X		X		
Moisture Content	X				X	
Tier III Validation						
System performance and column resolution		X		X		
Initial calibration %RSDs		X		X		
Continuing calibration RRFs		X		X		
Continuing calibration %Ds		X		X		
Instrument tune and performance check		X		X		
Ion abundance criteria for each instrument used		X		X		
Internal standard		X		X		
Compound identification and quantitation						
A. Reconstructed ion chromatograms		X		X		
B. Quantitation Reports		X		X		

DATA USABILITY SUMMARY REPORT

VOCs: SW-846 8260	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
C. RT of sample compounds within the established RT windows		X		X	
D. Transcription/calculation errors present		X		X	
E. Reporting limits adjusted to reflect sample dilutions		X		X	

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

DATA USABILITY SUMMARY REPORT

SEMIVOLATILE ORGANIC COMPOUND (SVOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8270	Water	7 days from collection to extraction and 40 days from extraction to analysis	Cool to <6 °C
	Soil	14 days from collection to extraction and 40 days from extraction to analysis	Cool to <6 °C

All samples were analyzed within the specified holding time criteria.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

All compounds associated with the QA blanks exhibited a concentration less than the MDL, with the exception of the compounds listed in the following table. Sample results associated with QA blank contamination that were greater than the BAL resulted in the removal of the laboratory qualifier (B) of data. Sample results less than the BAL associated with the following sample locations were qualified as listed in the following table.

Sample Locations	Analytes	Sample Result	Qualification
MW-8604S MW-9114S MW-8806S MW-9111S MW-0203 MW-9112S MW-9112D MW-9502S	Phenanthrene	Detected sample results <RL and <BAL	"UB" at the PQL

Note:

RL Reporting limit

DATA USABILITY SUMMARY REPORT

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (20%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

4.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits.

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. SVOC analysis requires that two of the three SVOC surrogate compounds within each fraction exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria insure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria require the internal standard compounds associated with the SVOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

DATA USABILITY SUMMARY REPORT

The MS/MSD exhibited acceptable recoveries and RPD between the MS/MSD recoveries.

8. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices and 50% for soil matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices or three times the RL is applied for soil matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
PTMW-0202/DUP-061620	Acenaphthene	41	49 J	AC
	Fluorene	4.1 J	100 U	AC

Notes:

AC Acceptable

The calculated RPDs between the parent sample and field duplicate were acceptable.

10. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

All identified compounds met the specified criteria.

11. System Performance and Overall Assessment

The laboratory noted: The following samples were diluted due to the nature of the sample matrix: MW-0201 (480-171345-4), PTMW-0202(480-171345-10) and DUP-061620 (480-171345-11). Elevated reporting limits (RLs) are provided.

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA USABILITY SUMMARY REPORT

DATA VALIDATION CHECKLIST FOR SVOCs

SVOCs: SW-846 8270	Reported		Performance Acceptable		Not Required	
	No	Yes	No	Yes		
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)						
Tier II Validation						
Holding times		X		X		
Reporting limits (units)		X		X		
Blanks						
A. Method blanks		X	X			
B. Equipment blanks					X	
Laboratory Control Sample (LCS) %R		X		X		
Laboratory Control Sample Duplicate(LCSD) %R					X	
LCS/LCSD Precision (RPD)					X	
Matrix Spike (MS) %R		X		X		
Matrix Spike Duplicate(MSD) %R		X		X		
MS/MSD Precision (RPD)		X		X		
Field/Lab Duplicate (RPD)		X		X		
Surrogate Spike Recoveries		X		X		
Dilution Factor		X		X		
Moisture Content	X				X	
Tier III Validation						
System performance and column resolution		X		X		
Initial calibration %RSDs		X		X		
Continuing calibration RRFs		X		X		
Continuing calibration %Ds		X		X		
Instrument tune and performance check		X		X		
Ion abundance criteria for each instrument used		X		X		
Internal standard		X		X		
Compound identification and quantitation						
F. Reconstructed ion chromatograms		X		X		
G. Quantitation Reports		X		X		
H. RT of sample compounds within the established RT windows		X		X		

DATA USABILITY SUMMARY REPORT

SVOCs: SW-846 8270		Reported		Performance Acceptable		Not Required
		No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)						
I.	Quantitation transcriptions/calculations		X		X	
J.	Reporting limits adjusted to reflect sample dilutions		X		X	

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

DATA USABILITY SUMMARY REPORT

SAMPLE COMPLIANCE REPORT

Sample Delivery Group (SDG)	Sampling Date	Protocol	Sample ID	Matrix	Compliance ¹					Noncompliance
					VOC	SVOC	PCB	MET	MISC	
480-171345-1	6/16/2020	USEPA/SW846	MW-8604S	Water	Yes	No	--	--	--	SVOC: Associated Blank
	6/16/2020	USEPA/SW846	MW-9114S	Water	Yes	No	--	--	--	SVOC: Associated Blank
	6/16/2020	USEPA/SW846	MW-8806S	Water	Yes	No	--	--	--	SVOC: Associated Blank
	6/16/2020	USEPA/SW846	MW-0201	Water	Yes	Yes	--	--	--	
	6/17/2020	USEPA/SW846	MW-9111S	Water	Yes	No	--	--	--	SVOC: Associated Blank
	6/16/2020	USEPA/SW846	MW-0203	Water	Yes	No	--	--	--	SVOC: Associated Blank
	6/16/2020	USEPA/SW846	MW-9112S	Water	Yes	No	--	--	--	SVOC: Associated Blank
	6/16/2020	USEPA/SW846	MW-9112D	Water	Yes	No	--	--	--	SVOC: Associated Blank
	6/17/2020	USEPA/SW846	MW-9502S	Water	Yes	No	--	--	--	SVOC: Associated Blank
	6/16/2020	USEPA/SW846	PTMW-0202	Water	Yes	Yes	--	--	--	
	6/16/2020	USEPA/SW846	DUP-061620	Water	Yes	Yes	--	--	--	
	6/17/2020	USEPA/SW846	TRIP BLANK	Water	Yes	--	--	--	--	

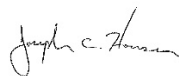
Note:

- 1 Samples which are compliant with no added validation qualifiers are listed as "yes". Samples which are non-compliant or which have added qualifiers are listed as "no". A "no" designation does not necessarily indicate that the data have been rejected or are otherwise unusable.

DATA USABILITY SUMMARY REPORT

VALIDATION PERFORMED BY: Joseph C. Houser

SIGNATURE:



DATE: December 1, 2020

PEER REVIEW: Dennis Capria

DATE: December 1, 2020

CHAIN OF CUSTODY

**CORRECTED SAMPLE ANALYSIS DATA
SHEETS**



Client Sample Results

Client: New York State Electric & Gas
Project/Site: NYSEG - Oneonta Former MGP

Job ID: 480-171345-1

Client Sample ID: MW-8604S

Lab Sample ID: 480-171345-1

Date Collected: 06/16/20 10:10

Matrix: Water

Date Received: 06/18/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.3		1.0	0.41	ug/L			06/18/20 22:37	1
Toluene	ND		1.0	0.51	ug/L			06/18/20 22:37	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/18/20 22:37	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			06/18/20 22:37	1
o-Xylene	ND		1.0	0.76	ug/L			06/18/20 22:37	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/18/20 22:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		77 - 120		06/18/20 22:37	1
Toluene-d8 (Surr)	97		80 - 120		06/18/20 22:37	1
4-Bromofluorobenzene (Surr)	105		73 - 120		06/18/20 22:37	1
Dibromofluoromethane (Surr)	110		75 - 123		06/18/20 22:37	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	11		5.0	0.41	ug/L		06/20/20 06:53	06/24/20 17:17	1
Acenaphthylene	0.78	J	5.0	0.38	ug/L		06/20/20 06:53	06/24/20 17:17	1
Anthracene	ND		5.0	0.28	ug/L		06/20/20 06:53	06/24/20 17:17	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		06/20/20 06:53	06/24/20 17:17	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		06/20/20 06:53	06/24/20 17:17	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		06/20/20 06:53	06/24/20 17:17	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		06/20/20 06:53	06/24/20 17:17	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		06/20/20 06:53	06/24/20 17:17	1
Chrysene	ND		5.0	0.33	ug/L		06/20/20 06:53	06/24/20 17:17	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		06/20/20 06:53	06/24/20 17:17	1
Fluoranthene	0.45	J	5.0	0.40	ug/L		06/20/20 06:53	06/24/20 17:17	1
Fluorene	1.6	J	5.0	0.36	ug/L		06/20/20 06:53	06/24/20 17:17	1
Indeno(1,2,3-c,d)pyrene	ND		5.0	0.47	ug/L		06/20/20 06:53	06/24/20 17:17	1
Naphthalene	3.1	J	5.0	0.76	ug/L		06/20/20 06:53	06/24/20 17:17	1
Phenanthrene	5.0	1.5 J B UB	5.0	0.44	ug/L		06/20/20 06:53	06/24/20 17:17	1
Pyrene	ND		5.0	0.34	ug/L		06/20/20 06:53	06/24/20 17:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	95		46 - 120	06/20/20 06:53	06/24/20 17:17	1
2-Fluorobiphenyl	101		48 - 120	06/20/20 06:53	06/24/20 17:17	1
p-Terphenyl-d14	95		60 - 148	06/20/20 06:53	06/24/20 17:17	1

Client Sample ID: MW-9114S

Lab Sample ID: 480-171345-2

Date Collected: 06/16/20 12:10

Matrix: Water

Date Received: 06/18/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			06/18/20 23:00	1
Toluene	ND		1.0	0.51	ug/L			06/18/20 23:00	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/18/20 23:00	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			06/18/20 23:00	1
o-Xylene	ND		1.0	0.76	ug/L			06/18/20 23:00	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/18/20 23:00	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State Electric & Gas
Project/Site: NYSEG - Oneonta Former MGP

Job ID: 480-171345-1

Client Sample ID: MW-9114S

Lab Sample ID: 480-171345-2

Date Collected: 06/16/20 12:10

Matrix: Water

Date Received: 06/18/20 08:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		77 - 120		06/18/20 23:00	1
Toluene-d8 (Surr)	96		80 - 120		06/18/20 23:00	1
4-Bromofluorobenzene (Surr)	103		73 - 120		06/18/20 23:00	1
Dibromofluoromethane (Surr)	111		75 - 123		06/18/20 23:00	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.41	ug/L		06/20/20 06:53	06/24/20 17:46	1
Acenaphthylene	ND		5.0	0.38	ug/L		06/20/20 06:53	06/24/20 17:46	1
Anthracene	ND		5.0	0.28	ug/L		06/20/20 06:53	06/24/20 17:46	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		06/20/20 06:53	06/24/20 17:46	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		06/20/20 06:53	06/24/20 17:46	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		06/20/20 06:53	06/24/20 17:46	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		06/20/20 06:53	06/24/20 17:46	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		06/20/20 06:53	06/24/20 17:46	1
Chrysene	ND		5.0	0.33	ug/L		06/20/20 06:53	06/24/20 17:46	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		06/20/20 06:53	06/24/20 17:46	1
Fluoranthene	0.45	J	5.0	0.40	ug/L		06/20/20 06:53	06/24/20 17:46	1
Fluorene	ND		5.0	0.36	ug/L		06/20/20 06:53	06/24/20 17:46	1
Indeno(1,2,3-c,d)pyrene	ND		5.0	0.47	ug/L		06/20/20 06:53	06/24/20 17:46	1
Naphthalene	ND		5.0	0.76	ug/L		06/20/20 06:53	06/24/20 17:46	1
Phenanthrene	5.0	~~1.4~~ JB UB	5.0	0.44	ug/L		06/20/20 06:53	06/24/20 17:46	1
Pyrene	ND		5.0	0.34	ug/L		06/20/20 06:53	06/24/20 17:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	99		46 - 120	06/20/20 06:53	06/24/20 17:46	1
2-Fluorobiphenyl	101		48 - 120	06/20/20 06:53	06/24/20 17:46	1
p-Terphenyl-d14	97		60 - 148	06/20/20 06:53	06/24/20 17:46	1

Client Sample ID: MW-8806S

Lab Sample ID: 480-171345-3

Date Collected: 06/16/20 10:10

Matrix: Water

Date Received: 06/18/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.60	J	1.0	0.41	ug/L			06/18/20 23:23	1
Toluene	ND		1.0	0.51	ug/L			06/18/20 23:23	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/18/20 23:23	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			06/18/20 23:23	1
o-Xylene	ND		1.0	0.76	ug/L			06/18/20 23:23	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/18/20 23:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		77 - 120		06/18/20 23:23	1
Toluene-d8 (Surr)	98		80 - 120		06/18/20 23:23	1
4-Bromofluorobenzene (Surr)	105		73 - 120		06/18/20 23:23	1
Dibromofluoromethane (Surr)	111		75 - 123		06/18/20 23:23	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.41	ug/L		06/20/20 06:53	06/24/20 18:16	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State Electric & Gas
Project/Site: NYSEG - Oneonta Former MGP

Job ID: 480-171345-1

Client Sample ID: MW-8806S

Lab Sample ID: 480-171345-3

Date Collected: 06/16/20 10:10

Matrix: Water

Date Received: 06/18/20 08:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	ND		5.0	0.38	ug/L		06/20/20 06:53	06/24/20 18:16	1
Anthracene	ND		5.0	0.28	ug/L		06/20/20 06:53	06/24/20 18:16	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		06/20/20 06:53	06/24/20 18:16	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		06/20/20 06:53	06/24/20 18:16	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		06/20/20 06:53	06/24/20 18:16	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		06/20/20 06:53	06/24/20 18:16	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		06/20/20 06:53	06/24/20 18:16	1
Chrysene	ND		5.0	0.33	ug/L		06/20/20 06:53	06/24/20 18:16	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		06/20/20 06:53	06/24/20 18:16	1
Fluoranthene	ND		5.0	0.40	ug/L		06/20/20 06:53	06/24/20 18:16	1
Fluorene	ND		5.0	0.36	ug/L		06/20/20 06:53	06/24/20 18:16	1
Indeno(1,2,3-c,d)pyrene	ND		5.0	0.47	ug/L		06/20/20 06:53	06/24/20 18:16	1
Naphthalene	ND		5.0	0.76	ug/L		06/20/20 06:53	06/24/20 18:16	1
Phenanthrene	5.0	~~1.3~~ JB UB	5.0	0.44	ug/L		06/20/20 06:53	06/24/20 18:16	1
Pyrene	ND		5.0	0.34	ug/L		06/20/20 06:53	06/24/20 18:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	97		46 - 120	06/20/20 06:53	06/24/20 18:16	1
2-Fluorobiphenyl	98		48 - 120	06/20/20 06:53	06/24/20 18:16	1
p-Terphenyl-d14	94		60 - 148	06/20/20 06:53	06/24/20 18:16	1

Client Sample ID: MW-0201

Lab Sample ID: 480-171345-4

Date Collected: 06/16/20 11:30

Matrix: Water

Date Received: 06/18/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
~~Benzene~~	~~100~~	~~E~~	~~1.0~~	~~0.41~~	~~ug/L~~		~~06/19/20 11:52~~	~~06/19/20 11:52~~	~~1~~
Toluene	2.4		1.0	0.51	ug/L		06/19/20 11:52	06/19/20 11:52	1
Ethylbenzene	60		1.0	0.74	ug/L		06/19/20 11:52	06/19/20 11:52	1
m-Xylene & p-Xylene	9.7		2.0	0.66	ug/L		06/19/20 11:52	06/19/20 11:52	1
o-Xylene	46		1.0	0.76	ug/L		06/19/20 11:52	06/19/20 11:52	1
Xylenes, Total	56		2.0	0.66	ug/L		06/19/20 11:52	06/19/20 11:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		77 - 120	06/19/20 11:52	06/19/20 11:52	1
Toluene-d8 (Surr)	96		80 - 120	06/19/20 11:52	06/19/20 11:52	1
4-Bromofluorobenzene (Surr)	104		73 - 120	06/19/20 11:52	06/19/20 11:52	1
Dibromofluoromethane (Surr)	110		75 - 123	06/19/20 11:52	06/19/20 11:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	92	D	2.0	0.82	ug/L		06/20/20 11:03	06/20/20 11:03	2
~~Toluene~~	~~2.4~~		~~2.0~~	~~1.0~~	~~ug/L~~		~~06/20/20 11:03~~	~~06/20/20 11:03~~	~~2~~
Ethylbenzene	56		2.0	1.5	ug/L		06/20/20 11:03	06/20/20 11:03	2
m-Xylene & p-Xylene	8.8		4.0	1.3	ug/L		06/20/20 11:03	06/20/20 11:03	2
o-Xylene	44		2.0	1.5	ug/L		06/20/20 11:03	06/20/20 11:03	2
~~Xylenes, Total~~	~~53~~		~~4.0~~	~~1.3~~	~~ug/L~~		~~06/20/20 11:03~~	~~06/20/20 11:03~~	~~2~~

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	118		77 - 120	06/20/20 11:03	06/20/20 11:03	2

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State Electric & Gas
Project/Site: NYSEG - Oneonta Former MGP

Job ID: 480-171345-1

Client Sample ID: MW-0201

Lab Sample ID: 480-171345-4

Date Collected: 06/16/20 11:30

Matrix: Water

Date Received: 06/18/20 08:00

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		80 - 120		06/20/20 11:03	2
4-Bromofluorobenzene (Surr)	107		73 - 120		06/20/20 11:03	2
Dibromofluoromethane (Surr)	109		75 - 123		06/20/20 11:03	2

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		110	8.7	ug/L		06/20/20 06:53	06/24/20 18:45	20
Acenaphthylene	ND		110	8.1	ug/L		06/20/20 06:53	06/24/20 18:45	20
Anthracene	ND		110	6.0	ug/L		06/20/20 06:53	06/24/20 18:45	20
Benzo(a)anthracene	ND		110	7.7	ug/L		06/20/20 06:53	06/24/20 18:45	20
Benzo(a)pyrene	ND		110	10	ug/L		06/20/20 06:53	06/24/20 18:45	20
Benzo(b)fluoranthene	ND		110	7.2	ug/L		06/20/20 06:53	06/24/20 18:45	20
Benzo(g,h,i)perylene	ND		110	7.4	ug/L		06/20/20 06:53	06/24/20 18:45	20
Benzo(k)fluoranthene	ND		110	16	ug/L		06/20/20 06:53	06/24/20 18:45	20
Chrysene	ND		110	7.0	ug/L		06/20/20 06:53	06/24/20 18:45	20
Dibenz(a,h)anthracene	ND		110	8.9	ug/L		06/20/20 06:53	06/24/20 18:45	20
Fluoranthene	ND		110	8.5	ug/L		06/20/20 06:53	06/24/20 18:45	20
Fluorene	ND		110	7.7	ug/L		06/20/20 06:53	06/24/20 18:45	20
Indeno(1,2,3-c,d)pyrene	ND		110	10	ug/L		06/20/20 06:53	06/24/20 18:45	20
Naphthalene	ND		110	16	ug/L		06/20/20 06:53	06/24/20 18:45	20
Phenanthrene	ND		110	9.4	ug/L		06/20/20 06:53	06/24/20 18:45	20
Pyrene	ND		110	7.2	ug/L		06/20/20 06:53	06/24/20 18:45	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	92		46 - 120	06/20/20 06:53	06/24/20 18:45	20
2-Fluorobiphenyl	97		48 - 120	06/20/20 06:53	06/24/20 18:45	20
p-Terphenyl-d14	86		60 - 148	06/20/20 06:53	06/24/20 18:45	20

Client Sample ID: MW-9111S

Lab Sample ID: 480-171345-5

Date Collected: 06/17/20 09:20

Matrix: Water

Date Received: 06/18/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			06/19/20 00:09	1
Toluene	ND		1.0	0.51	ug/L			06/19/20 00:09	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/19/20 00:09	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			06/19/20 00:09	1
o-Xylene	ND		1.0	0.76	ug/L			06/19/20 00:09	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/19/20 00:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		77 - 120		06/19/20 00:09	1
Toluene-d8 (Surr)	95		80 - 120		06/19/20 00:09	1
4-Bromofluorobenzene (Surr)	102		73 - 120		06/19/20 00:09	1
Dibromofluoromethane (Surr)	111		75 - 123		06/19/20 00:09	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	4.7	J	5.0	0.41	ug/L		06/20/20 06:53	06/24/20 19:14	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State Electric & Gas
Project/Site: NYSEG - Oneonta Former MGP

Job ID: 480-171345-1

Client Sample ID: MW-9111S

Lab Sample ID: 480-171345-5

Date Collected: 06/17/20 09:20

Matrix: Water

Date Received: 06/18/20 08:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	ND		5.0	0.38	ug/L		06/20/20 06:53	06/24/20 19:14	1
Anthracene	ND		5.0	0.28	ug/L		06/20/20 06:53	06/24/20 19:14	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		06/20/20 06:53	06/24/20 19:14	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		06/20/20 06:53	06/24/20 19:14	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		06/20/20 06:53	06/24/20 19:14	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		06/20/20 06:53	06/24/20 19:14	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		06/20/20 06:53	06/24/20 19:14	1
Chrysene	ND		5.0	0.33	ug/L		06/20/20 06:53	06/24/20 19:14	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		06/20/20 06:53	06/24/20 19:14	1
Fluoranthene	0.48	J	5.0	0.40	ug/L		06/20/20 06:53	06/24/20 19:14	1
Fluorene	ND		5.0	0.36	ug/L		06/20/20 06:53	06/24/20 19:14	1
Indeno(1,2,3-c,d)pyrene	ND		5.0	0.47	ug/L		06/20/20 06:53	06/24/20 19:14	1
Naphthalene	ND		5.0	0.76	ug/L		06/20/20 06:53	06/24/20 19:14	1
Phenanthrene	5.0	~~1.5~~ J B UB	5.0	0.44	ug/L		06/20/20 06:53	06/24/20 19:14	1
Pyrene	ND		5.0	0.34	ug/L		06/20/20 06:53	06/24/20 19:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	108		46 - 120	06/20/20 06:53	06/24/20 19:14	1
2-Fluorobiphenyl	112		48 - 120	06/20/20 06:53	06/24/20 19:14	1
p-Terphenyl-d14	95		60 - 148	06/20/20 06:53	06/24/20 19:14	1

Client Sample ID: MW-0203

Lab Sample ID: 480-171345-6

Date Collected: 06/16/20 13:50

Matrix: Water

Date Received: 06/18/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			06/19/20 00:32	1
Toluene	ND		1.0	0.51	ug/L			06/19/20 00:32	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/19/20 00:32	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			06/19/20 00:32	1
o-Xylene	ND		1.0	0.76	ug/L			06/19/20 00:32	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/19/20 00:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		77 - 120		06/19/20 00:32	1
Toluene-d8 (Surr)	97		80 - 120		06/19/20 00:32	1
4-Bromofluorobenzene (Surr)	104		73 - 120		06/19/20 00:32	1
Dibromofluoromethane (Surr)	109		75 - 123		06/19/20 00:32	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.4	0.45	ug/L		06/20/20 06:53	06/24/20 19:43	1
Acenaphthylene	ND		5.4	0.41	ug/L		06/20/20 06:53	06/24/20 19:43	1
Anthracene	ND		5.4	0.30	ug/L		06/20/20 06:53	06/24/20 19:43	1
Benzo(a)anthracene	ND		5.4	0.39	ug/L		06/20/20 06:53	06/24/20 19:43	1
Benzo(a)pyrene	ND		5.4	0.51	ug/L		06/20/20 06:53	06/24/20 19:43	1
Benzo(b)fluoranthene	ND		5.4	0.37	ug/L		06/20/20 06:53	06/24/20 19:43	1
Benzo(g,h,i)perylene	ND		5.4	0.38	ug/L		06/20/20 06:53	06/24/20 19:43	1
Benzo(k)fluoranthene	ND		5.4	0.79	ug/L		06/20/20 06:53	06/24/20 19:43	1
Chrysene	ND		5.4	0.36	ug/L		06/20/20 06:53	06/24/20 19:43	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State Electric & Gas
Project/Site: NYSEG - Oneonta Former MGP

Job ID: 480-171345-1

Client Sample ID: MW-0203

Lab Sample ID: 480-171345-6

Date Collected: 06/16/20 13:50

Matrix: Water

Date Received: 06/18/20 08:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	ND		5.4	0.46	ug/L		06/20/20 06:53	06/24/20 19:43	1
Fluoranthene	ND		5.4	0.43	ug/L		06/20/20 06:53	06/24/20 19:43	1
Fluorene	ND		5.4	0.39	ug/L		06/20/20 06:53	06/24/20 19:43	1
Indeno(1,2,3-c,d)pyrene	ND		5.4	0.51	ug/L		06/20/20 06:53	06/24/20 19:43	1
Naphthalene	ND		5.4	0.83	ug/L		06/20/20 06:53	06/24/20 19:43	1
Phenanthrene	5.4	~~1.3~~ JB UB	5.4	0.48	ug/L		06/20/20 06:53	06/24/20 19:43	1
Pyrene	ND		5.4	0.37	ug/L		06/20/20 06:53	06/24/20 19:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	101		46 - 120	06/20/20 06:53	06/24/20 19:43	1
2-Fluorobiphenyl	104		48 - 120	06/20/20 06:53	06/24/20 19:43	1
p-Terphenyl-d14	96		60 - 148	06/20/20 06:53	06/24/20 19:43	1

Client Sample ID: MW-9112S

Lab Sample ID: 480-171345-7

Date Collected: 06/16/20 14:30

Matrix: Water

Date Received: 06/18/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			06/19/20 00:55	1
Toluene	ND		1.0	0.51	ug/L			06/19/20 00:55	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/19/20 00:55	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			06/19/20 00:55	1
o-Xylene	ND		1.0	0.76	ug/L			06/19/20 00:55	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/19/20 00:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		77 - 120		06/19/20 00:55	1
Toluene-d8 (Surr)	96		80 - 120		06/19/20 00:55	1
4-Bromofluorobenzene (Surr)	103		73 - 120		06/19/20 00:55	1
Dibromofluoromethane (Surr)	111		75 - 123		06/19/20 00:55	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.41	ug/L		06/20/20 06:53	06/24/20 20:12	1
Acenaphthylene	ND		5.0	0.38	ug/L		06/20/20 06:53	06/24/20 20:12	1
Anthracene	ND		5.0	0.28	ug/L		06/20/20 06:53	06/24/20 20:12	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		06/20/20 06:53	06/24/20 20:12	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		06/20/20 06:53	06/24/20 20:12	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		06/20/20 06:53	06/24/20 20:12	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		06/20/20 06:53	06/24/20 20:12	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		06/20/20 06:53	06/24/20 20:12	1
Chrysene	ND		5.0	0.33	ug/L		06/20/20 06:53	06/24/20 20:12	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		06/20/20 06:53	06/24/20 20:12	1
Fluoranthene	ND		5.0	0.40	ug/L		06/20/20 06:53	06/24/20 20:12	1
Fluorene	ND		5.0	0.36	ug/L		06/20/20 06:53	06/24/20 20:12	1
Indeno(1,2,3-c,d)pyrene	ND		5.0	0.47	ug/L		06/20/20 06:53	06/24/20 20:12	1
Naphthalene	ND		5.0	0.76	ug/L		06/20/20 06:53	06/24/20 20:12	1
Phenanthrene	5.0	~~1.3~~ JB UB	5.0	0.44	ug/L		06/20/20 06:53	06/24/20 20:12	1
Pyrene	ND		5.0	0.34	ug/L		06/20/20 06:53	06/24/20 20:12	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State Electric & Gas
Project/Site: NYSEG - Oneonta Former MGP

Job ID: 480-171345-1

Client Sample ID: MW-9112S

Date Collected: 06/16/20 14:30

Date Received: 06/18/20 08:00

Lab Sample ID: 480-171345-7

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	104		46 - 120	06/20/20 06:53	06/24/20 20:12	1
2-Fluorobiphenyl	106		48 - 120	06/20/20 06:53	06/24/20 20:12	1
p-Terphenyl-d14	92		60 - 148	06/20/20 06:53	06/24/20 20:12	1

Client Sample ID: MW-9112D

Date Collected: 06/16/20 15:45

Date Received: 06/18/20 08:00

Lab Sample ID: 480-171345-8

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			06/19/20 01:18	1
Toluene	ND		1.0	0.51	ug/L			06/19/20 01:18	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/19/20 01:18	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			06/19/20 01:18	1
o-Xylene	ND		1.0	0.76	ug/L			06/19/20 01:18	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/19/20 01:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	117		77 - 120					06/19/20 01:18	1
Toluene-d8 (Surr)	96		80 - 120					06/19/20 01:18	1
4-Bromofluorobenzene (Surr)	102		73 - 120					06/19/20 01:18	1
Dibromofluoromethane (Surr)	114		75 - 123					06/19/20 01:18	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.41	ug/L		06/20/20 06:53	06/24/20 20:41	1
Acenaphthylene	ND		5.0	0.38	ug/L		06/20/20 06:53	06/24/20 20:41	1
Anthracene	ND		5.0	0.28	ug/L		06/20/20 06:53	06/24/20 20:41	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		06/20/20 06:53	06/24/20 20:41	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		06/20/20 06:53	06/24/20 20:41	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		06/20/20 06:53	06/24/20 20:41	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		06/20/20 06:53	06/24/20 20:41	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		06/20/20 06:53	06/24/20 20:41	1
Chrysene	ND		5.0	0.33	ug/L		06/20/20 06:53	06/24/20 20:41	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		06/20/20 06:53	06/24/20 20:41	1
Fluoranthene	ND		5.0	0.40	ug/L		06/20/20 06:53	06/24/20 20:41	1
Fluorene	ND		5.0	0.36	ug/L		06/20/20 06:53	06/24/20 20:41	1
Indeno(1,2,3-c,d)pyrene	ND		5.0	0.47	ug/L		06/20/20 06:53	06/24/20 20:41	1
Naphthalene	ND		5.0	0.76	ug/L		06/20/20 06:53	06/24/20 20:41	1
Phenanthrene	5.0	~~1.3~~ J-B UB	5.0	0.44	ug/L		06/20/20 06:53	06/24/20 20:41	1
Pyrene	ND		5.0	0.34	ug/L		06/20/20 06:53	06/24/20 20:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	104		46 - 120				06/20/20 06:53	06/24/20 20:41	1
2-Fluorobiphenyl	107		48 - 120				06/20/20 06:53	06/24/20 20:41	1
p-Terphenyl-d14	100		60 - 148				06/20/20 06:53	06/24/20 20:41	1

Client Sample Results

Client: New York State Electric & Gas
Project/Site: NYSEG - Oneonta Former MGP

Job ID: 480-171345-1

Client Sample ID: MW-9502S

Lab Sample ID: 480-171345-9

Date Collected: 06/17/20 10:05

Matrix: Water

Date Received: 06/18/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			06/19/20 01:41	1
Toluene	ND		1.0	0.51	ug/L			06/19/20 01:41	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/19/20 01:41	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			06/19/20 01:41	1
o-Xylene	ND		1.0	0.76	ug/L			06/19/20 01:41	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/19/20 01:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		77 - 120		06/19/20 01:41	1
Toluene-d8 (Surr)	96		80 - 120		06/19/20 01:41	1
4-Bromofluorobenzene (Surr)	103		73 - 120		06/19/20 01:41	1
Dibromofluoromethane (Surr)	110		75 - 123		06/19/20 01:41	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.41	ug/L		06/20/20 06:53	06/24/20 16:19	1
Acenaphthylene	ND		5.0	0.38	ug/L		06/20/20 06:53	06/24/20 16:19	1
Anthracene	ND		5.0	0.28	ug/L		06/20/20 06:53	06/24/20 16:19	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		06/20/20 06:53	06/24/20 16:19	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		06/20/20 06:53	06/24/20 16:19	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		06/20/20 06:53	06/24/20 16:19	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		06/20/20 06:53	06/24/20 16:19	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		06/20/20 06:53	06/24/20 16:19	1
Chrysene	ND		5.0	0.33	ug/L		06/20/20 06:53	06/24/20 16:19	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		06/20/20 06:53	06/24/20 16:19	1
Fluoranthene	ND		5.0	0.40	ug/L		06/20/20 06:53	06/24/20 16:19	1
Fluorene	ND		5.0	0.36	ug/L		06/20/20 06:53	06/24/20 16:19	1
Indeno(1,2,3-c,d)pyrene	ND		5.0	0.47	ug/L		06/20/20 06:53	06/24/20 16:19	1
Naphthalene	ND		5.0	0.76	ug/L		06/20/20 06:53	06/24/20 16:19	1
Phenanthrene	5.0	~~1.3~~ J B UB	5.0	0.44	ug/L		06/20/20 06:53	06/24/20 16:19	1
Pyrene	ND		5.0	0.34	ug/L		06/20/20 06:53	06/24/20 16:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	103		46 - 120	06/20/20 06:53	06/24/20 16:19	1
2-Fluorobiphenyl	104		48 - 120	06/20/20 06:53	06/24/20 16:19	1
p-Terphenyl-d14	100		60 - 148	06/20/20 06:53	06/24/20 16:19	1

Client Sample ID: PTMW-0202

Lab Sample ID: 480-171345-10

Date Collected: 06/16/20 15:05

Matrix: Water

Date Received: 06/18/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	54		1.0	0.41	ug/L			06/19/20 12:15	1
Toluene	ND		1.0	0.51	ug/L			06/19/20 12:15	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/19/20 12:15	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			06/19/20 12:15	1
o-Xylene	0.97	J	1.0	0.76	ug/L			06/19/20 12:15	1
Xylenes, Total	0.97	J	2.0	0.66	ug/L			06/19/20 12:15	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State Electric & Gas
Project/Site: NYSEG - Oneonta Former MGP

Job ID: 480-171345-1

Client Sample ID: PTMW-0202

Lab Sample ID: 480-171345-10

Date Collected: 06/16/20 15:05

Matrix: Water

Date Received: 06/18/20 08:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	119		77 - 120		06/19/20 12:15	1
Toluene-d8 (Surr)	97		80 - 120		06/19/20 12:15	1
4-Bromofluorobenzene (Surr)	104		73 - 120		06/19/20 12:15	1
Dibromofluoromethane (Surr)	110		75 - 123		06/19/20 12:15	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	41		25	2.1	ug/L		06/20/20 06:53	06/24/20 21:10	5
Acenaphthylene	ND		25	1.9	ug/L		06/20/20 06:53	06/24/20 21:10	5
Anthracene	ND		25	1.4	ug/L		06/20/20 06:53	06/24/20 21:10	5
Benzo(a)anthracene	ND		25	1.8	ug/L		06/20/20 06:53	06/24/20 21:10	5
Benzo(a)pyrene	ND		25	2.4	ug/L		06/20/20 06:53	06/24/20 21:10	5
Benzo(b)fluoranthene	ND		25	1.7	ug/L		06/20/20 06:53	06/24/20 21:10	5
Benzo(g,h,i)perylene	ND		25	1.8	ug/L		06/20/20 06:53	06/24/20 21:10	5
Benzo(k)fluoranthene	ND		25	3.7	ug/L		06/20/20 06:53	06/24/20 21:10	5
Chrysene	ND		25	1.7	ug/L		06/20/20 06:53	06/24/20 21:10	5
Dibenz(a,h)anthracene	ND		25	2.1	ug/L		06/20/20 06:53	06/24/20 21:10	5
Fluoranthene	ND		25	2.0	ug/L		06/20/20 06:53	06/24/20 21:10	5
Fluorene	4.1	J	25	1.8	ug/L		06/20/20 06:53	06/24/20 21:10	5
Indeno(1,2,3-c,d)pyrene	ND		25	2.4	ug/L		06/20/20 06:53	06/24/20 21:10	5
Naphthalene	ND		25	3.8	ug/L		06/20/20 06:53	06/24/20 21:10	5
Phenanthrene	ND		25	2.2	ug/L		06/20/20 06:53	06/24/20 21:10	5
Pyrene	ND		25	1.7	ug/L		06/20/20 06:53	06/24/20 21:10	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	93		46 - 120	06/20/20 06:53	06/24/20 21:10	5
2-Fluorobiphenyl	95		48 - 120	06/20/20 06:53	06/24/20 21:10	5
p-Terphenyl-d14	83		60 - 148	06/20/20 06:53	06/24/20 21:10	5

Client Sample ID: DUP-061620

Lab Sample ID: 480-171345-11

Date Collected: 06/16/20 00:00

Matrix: Water

Date Received: 06/18/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	55		1.0	0.41	ug/L			06/19/20 12:38	1
Toluene	ND		1.0	0.51	ug/L			06/19/20 12:38	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/19/20 12:38	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			06/19/20 12:38	1
o-Xylene	0.90	J	1.0	0.76	ug/L			06/19/20 12:38	1
Xylenes, Total	0.90	J	2.0	0.66	ug/L			06/19/20 12:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	119		77 - 120		06/19/20 12:38	1
Toluene-d8 (Surr)	96		80 - 120		06/19/20 12:38	1
4-Bromofluorobenzene (Surr)	105		73 - 120		06/19/20 12:38	1
Dibromofluoromethane (Surr)	110		75 - 123		06/19/20 12:38	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	49	J	100	8.2	ug/L		06/20/20 06:53	06/24/20 21:39	20

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State Electric & Gas
Project/Site: NYSEG - Oneonta Former MGP

Job ID: 480-171345-1

Client Sample ID: DUP-061620

Lab Sample ID: 480-171345-11

Date Collected: 06/16/20 00:00

Matrix: Water

Date Received: 06/18/20 08:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	ND		100	7.6	ug/L		06/20/20 06:53	06/24/20 21:39	20
Anthracene	ND		100	5.6	ug/L		06/20/20 06:53	06/24/20 21:39	20
Benzo(a)anthracene	ND		100	7.2	ug/L		06/20/20 06:53	06/24/20 21:39	20
Benzo(a)pyrene	ND		100	9.4	ug/L		06/20/20 06:53	06/24/20 21:39	20
Benzo(b)fluoranthene	ND		100	6.8	ug/L		06/20/20 06:53	06/24/20 21:39	20
Benzo(g,h,i)perylene	ND		100	7.0	ug/L		06/20/20 06:53	06/24/20 21:39	20
Benzo(k)fluoranthene	ND		100	15	ug/L		06/20/20 06:53	06/24/20 21:39	20
Chrysene	ND		100	6.6	ug/L		06/20/20 06:53	06/24/20 21:39	20
Dibenz(a,h)anthracene	ND		100	8.4	ug/L		06/20/20 06:53	06/24/20 21:39	20
Fluoranthene	ND		100	8.0	ug/L		06/20/20 06:53	06/24/20 21:39	20
Fluorene	ND		100	7.2	ug/L		06/20/20 06:53	06/24/20 21:39	20
Indeno(1,2,3-c,d)pyrene	ND		100	9.4	ug/L		06/20/20 06:53	06/24/20 21:39	20
Naphthalene	ND		100	15	ug/L		06/20/20 06:53	06/24/20 21:39	20
Phenanthrene	ND		100	8.8	ug/L		06/20/20 06:53	06/24/20 21:39	20
Pyrene	ND		100	6.8	ug/L		06/20/20 06:53	06/24/20 21:39	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	97		46 - 120	06/20/20 06:53	06/24/20 21:39	20
2-Fluorobiphenyl	106		48 - 120	06/20/20 06:53	06/24/20 21:39	20
p-Terphenyl-d14	90		60 - 148	06/20/20 06:53	06/24/20 21:39	20

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-171345-12

Date Collected: 06/17/20 00:00

Matrix: Water

Date Received: 06/18/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			06/19/20 02:49	1
Toluene	ND		1.0	0.51	ug/L			06/19/20 02:49	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/19/20 02:49	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			06/19/20 02:49	1
o-Xylene	ND		1.0	0.76	ug/L			06/19/20 02:49	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/19/20 02:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		77 - 120		06/19/20 02:49	1
Toluene-d8 (Surr)	97		80 - 120		06/19/20 02:49	1
4-Bromofluorobenzene (Surr)	103		73 - 120		06/19/20 02:49	1
Dibromofluoromethane (Surr)	110		75 - 123		06/19/20 02:49	1

Chain of Custody Record



Client Information						Lab PM:		COC No:						
Company: R.C. Clare & E. Green						Schove, John R.		480-145743-29428.1						
Client Contact: Ryan Clare						E-Mail: john.schove@testamericainc.com		Page: Page 1 of 2						
Address: 100 Chestnut Street Suite 1020								Job #:						
City: Rochester														
State, Zip: NY, 14604														
Phone: 585-880-7747														
Email: Ryan.Clare@arcadis.com														
Project Name: NYSEG - Oneonta														
Site: NYSEG - Oneonta former MGP														
Sample Identification		Sample Date	Sample Time	Sample Type (G=grab)	Matrix (W=water, S=solid, O=other)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	N	A	8260C - BTEX	8270D - PAHs	Total Number of Containers	Special Instructions/Note:
MW-8604S		6/16/20	1010	G	Water		X						5	
MW-9114S		6/16/20	1210	G	Water		X						5	
MW-8806S		6/16/20	1010	G	Water		X						5	
MW-0201		6/16/20	1130	G	Water		X						5	
MW-9111S		6/17/20	0920	G	Water		X						5	
MW-0203		6/16/20	1350	G	Water		X						5	
MW-9112S		6/16/20	1430	G	Water		X						5	
MW-9112D		6/16/20	1545	G	Water		X						5	
MW-9502S		6/17/20	1005	G	Water		Y	X					15	
PTMW-0202		6/16/20	1505	G	Water		X						5	
DUP-061620		6/16/20	-	G	Water		X						5	
Possible Hazard Identification ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological Deliverable Requested: I, II, III, IV, Other (specify) _____														
Empty Kit Relinquished by: _____ Date: _____ Time: _____ Relinquished by: Ryan Clare Date: 6/17/20 1405 Company: Arcadis Relinquished by: Evan Green Date: 6-17-20, 1650 Company: Arcadis Relinquished by: Ryan Clare Date: 6-17-20, 1900 Company: Arcadis Custody Seal No.: 3, 2, 1 Cooler Temperature(s) °C and Other Remarks:														

Chain of Custody Record

[illegible]

NYSEG Oneonta Former MGP Site

DATA USABILITY SUMMARY REPORT

Oneonta, New York

Volatile and Semivolatile Analysis

SDG #480-178499-1

Analyses Performed By:
TestAmerica Laboratories
Amherst, New York

Report #39417R
Review Level: Tier III
Project: 30047445.00002



DATA USABILITY SUMMARY REPORT

SUMMARY

This data usability summary report (DUSR) summarizes the review of Sample Delivery Group (SDG) # 480-178499-1 for samples collected in association with the NYSEG Oneonta Former MGP Site. The review was conducted as a Tier III evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis				
					VOC	SVOC	PCB	MET	MISC
MW-8604S	480-178499-1	Water	11/18/2020		X	X			
MW-9114S	480-178499-2	Water	11/18/2020		X	X			
MW-8806S	480-178499-3	Water	11/18/2020		X	X			
MW-0201	480-178499-4	Water	11/18/2020		X	X			
MW-9111S	480-178499-5	Water	11/18/2020		X	X			
MW-0203	480-178499-6	Water	11/18/2020		X	X			
MW-9112S	480-178499-7	Water	11/18/2020		X	X			
MW-9112D	480-178499-8	Water	11/18/2020		X	X			
MW-9502S	480-178499-9	Water	11/18/2020		X	X			
PTMW-0202	480-178499-10	Water	11/18/2020		X	X			
DUP-111820	480-178499-11	Water	11/18/2020	PTMW-0202	X	X			
TRIP BLANK	480-178499-12	Water	11/18/2020		X				

Note:

1. Matrix spike/matrix spike duplicate was performed on sample location MW-9502S for VOCs and SVOCs.

DATA USABILITY SUMMARY REPORT

ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed Chain-of-Custody (COC) form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data Package Completeness and Compliance		X		X	

Note:

QA - Quality Assurance

DATA USABILITY SUMMARY REPORT

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Method 8260C and 8270D. Data were reviewed in accordance with USEPA National Functional Guidelines (October 1999) and applicable Region II SOPs. USEPA NFGs and Region II SOPs were followed for qualification purposes.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
 - U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
 - B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
 - E The compound was quantitated above the calibration range.
 - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
 - J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
 - UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.
 - JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.
 - UB Compound considered non-detect at the listed value due to associated blank contamination.
 - N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
 - R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

DATA USABILITY SUMMARY REPORT

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times/Preservation

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260	Water	14 days from collection to analysis (preserved) 7 days from collection to analysis (non-preserved)	Cool to <6 °C; preserved to a pH of less than 2 s.u.
	Soil	48 hours from collection to extraction and 14 days from extraction to analysis	Cool to <6 °C.

Note:

s.u. Standard units

All samples were analyzed within the specified holding time criteria.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

DATA USABILITY SUMMARY REPORT

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (20%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

4.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits.

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria insure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria require the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

The MS/MSD exhibited acceptable recoveries and RPD between the MS/MSD recoveries.

8. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices and 50% for soil matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices or three times the RL is applied for soil matrices.

Results for duplicate samples are summarized in the following table.

DATA USABILITY SUMMARY REPORT

Sample ID/Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
PTMW-0202/DUP-111820	Benzene	580	570	1.7%
	Ethylbenzene	0.98 J	0.99 J	AC
	m-Xylene & p-Xylene	2.9	2.8	AC
	o-Xylene	11	11	0.0%
	Toluene	0.64 J	0.70 J	AC
	Xylenes, Total	14	14	0.0%

Notes:

AC Acceptable

The calculated RPDs between the parent sample and field duplicate were acceptable.

10. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

Sample results associated with compound that exhibited a concentration greater than the linear range of the instrument calibration are summarized in the following table.

Sample ID	Compound	Original Analysis	Diluted Analysis	Reported Analysis
PTMW-0202	Benzene	560 E	580 D	580 D
DUP-111820	Benzene	580 E	570 D	570 D

Note: In the instance where both the original analysis and the diluted analysis sample results exhibited a concentration greater than and/or less than the calibration linear range of the instrument; the sample result exhibiting the greatest concentration will be reported as the final result.

Sample results associated with compounds exhibiting concentrations greater than the linear range are qualified as documented in the table below when reported as the final reported sample result.

Reported Sample Results	Qualification
Diluted sample result within calibration range	D
Diluted sample result less than the calibration range	DJ
Diluted sample result greater than the calibration range	EDJ
Original sample result greater than the calibration range	EJ

11. System Performance and Overall Assessment

The laboratory noted: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-0201 (480-178499-4). Elevated reporting limits (RLs) are provided.

DATA USABILITY SUMMARY REPORT

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA USABILITY SUMMARY REPORT

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: SW-846 8260	Reported		Performance Acceptable		Not Required	
	No	Yes	No	Yes		
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)						
Tier II Validation						
Holding times		X		X		
Reporting limits (units)		X		X		
Blanks						
A. Method blanks		X		X		
B. Equipment blanks						
C. Trip blanks		X		X		
Laboratory Control Sample (LCS)		X		X		
Laboratory Control Sample Duplicate(LCSD)	X				X	
LCS/LCSD Precision (RPD)	X				X	
Matrix Spike (MS)		X		X		
Matrix Spike Duplicate(MSD)		X		X		
MS/MSD Precision (RPD)		X		X		
Field/Lab Duplicate (RPD)		X		X		
Surrogate Spike Recoveries		X		X		
Dilution Factor		X		X		
Moisture Content	X				X	
Tier III Validation						
System performance and column resolution		X		X		
Initial calibration %RSDs		X		X		
Continuing calibration RRFs		X		X		
Continuing calibration %Ds		X		X		
Instrument tune and performance check		X		X		
Ion abundance criteria for each instrument used		X		X		
Internal standard		X		X		
Compound identification and quantitation						
A. Reconstructed ion chromatograms		X		X		
B. Quantitation Reports		X		X		

DATA USABILITY SUMMARY REPORT

VOCs: SW-846 8260	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
C. RT of sample compounds within the established RT windows		X		X	
D. Transcription/calculation errors present		X		X	
E. Reporting limits adjusted to reflect sample dilutions		X		X	

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

DATA USABILITY SUMMARY REPORT

SEMIVOLATILE ORGANIC COMPOUND (SVOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8270	Water	7 days from collection to extraction and 40 days from extraction to analysis	Cool to <6 °C
	Soil	14 days from collection to extraction and 40 days from extraction to analysis	Cool to <6 °C

All samples were analyzed within the specified holding time criteria.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (20%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

DATA USABILITY SUMMARY REPORT

4.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

Sample Locations	Initial/Continuing	Compound	Criteria
MW-8604S MW-9114S MW-8806S MW-0201 MW-9111S MW-0203 MW-9112S MW-9112D MW-9502S PTMW-0202 DUP-111820	CCV %D	Benzo(k)fluoranthene	20.6%

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

Initial/Continuing	Criteria	Sample Result	Qualification
Initial and Continuing Calibration	RRF <0.05	Non-detect	R
		Detect	J
	RRF <0.01 ¹	Non-detect	R
		Detect	J
	RRF >0.05 or RRF >0.01 ¹	Non-detect	No Action
		Detect	
Initial Calibration	%RSD > 15% or a correlation coefficient <0.99	Non-detect	UJ
		Detect	J
	%RSD >90%	Non-detect	R
		Detect	J
Continuing Calibration	%D >20% (increase in sensitivity)	Non-detect	No Action
		Detect	J
	%D >20% (decrease in sensitivity)	Non-detect	UJ
		Detect	J
	%D >90% (increase/decrease in sensitivity)	Non-detect	R
		Detect	J

Note:

DATA USABILITY SUMMARY REPORT

Initial/Continuing	Criteria	Sample Result	Qualification
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¹ RRF of 0.01 only applies to compounds which are typically poor responding compounds (i.e., ketones, 1,4-dioxane, etc.)

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. SVOC analysis requires that two of the three SVOC surrogate compounds within each fraction exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria insure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria require the internal standard compounds associated with the SVOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

The MS/MSD exhibited acceptable recoveries and RPD between the MS/MSD recoveries.

8. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices and 50% for soil matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices or three times the RL is applied for soil matrices.

Results for duplicate samples are summarized in the following table.

DATA USABILITY SUMMARY REPORT

Sample ID/Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
PTMW-0202/DUP-111820	Acenaphthene	73	68	AC
	Fluorene	15 J	14 J	AC
	Naphthalene	110	95	AC
	Phenanthrene	3.2 J	3.3 J	AC

Notes:

AC Acceptable

The calculated RPDs between the parent sample and field duplicate were acceptable.

10. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

All identified compounds met the specified criteria.

11. System Performance and Overall Assessment

The laboratory noted: The following samples were diluted to bring the concentration of target analytes within the calibration range: PTMW-0202 (480-178499-10) and DUP-111820 (480-178499-11). Elevated reporting limits (RLs) are provided.

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA USABILITY SUMMARY REPORT

DATA VALIDATION CHECKLIST FOR SVOCs

SVOCs: SW-846 8270	Reported		Performance Acceptable		Not Required	
	No	Yes	No	Yes		
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)						
Tier II Validation						
Holding times		X		X		
Reporting limits (units)		X		X		
Blanks						
A. Method blanks		X		X		
B. Equipment blanks					X	
Laboratory Control Sample (LCS) %R		X		X		
Laboratory Control Sample Duplicate(LCSD) %R					X	
LCS/LCSD Precision (RPD)					X	
Matrix Spike (MS) %R		X		X		
Matrix Spike Duplicate(MSD) %R		X		X		
MS/MSD Precision (RPD)		X		X		
Field/Lab Duplicate (RPD)		X		X		
Surrogate Spike Recoveries		X		X		
Dilution Factor		X		X		
Moisture Content	X				X	
Tier III Validation						
System performance and column resolution		X		X		
Initial calibration %RSDs		X		X		
Continuing calibration RRFs		X		X		
Continuing calibration %Ds		X	X			
Instrument tune and performance check		X		X		
Ion abundance criteria for each instrument used		X		X		
Internal standard		X		X		
Compound identification and quantitation						
F. Reconstructed ion chromatograms		X		X		
G. Quantitation Reports		X		X		
H. RT of sample compounds within the established RT windows		X		X		

DATA USABILITY SUMMARY REPORT

SVOCs: SW-846 8270		Reported		Performance Acceptable		Not Required
		No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)						
I.	Quantitation transcriptions/calculations		X		X	
J.	Reporting limits adjusted to reflect sample dilutions		X		X	

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

DATA USABILITY SUMMARY REPORT

SAMPLE COMPLIANCE REPORT

Sample Delivery Group (SDG)	Sampling Date	Protocol	Sample ID	Matrix	Compliance ¹					Noncompliance
					VOC	SVOC	PCB	MET	MISC	
480-178499-1	11/18/2020	USEPA/SW846	MW-8604S	Water	Yes	Yes	--	--	--	
	11/18/2020	USEPA/SW846	MW-9114S	Water	Yes	Yes	--	--	--	
	11/18/2020	USEPA/SW846	MW-8806S	Water	Yes	Yes	--	--	--	
	11/18/2020	USEPA/SW846	MW-0201	Water	Yes	Yes	--	--	--	
	11/18/2020	USEPA/SW846	MW-9111S	Water	Yes	Yes	--	--	--	
	11/18/2020	USEPA/SW846	MW-0203	Water	Yes	Yes	--	--	--	
	11/18/2020	USEPA/SW846	MW-9112S	Water	Yes	Yes	--	--	--	
	11/18/2020	USEPA/SW846	MW-9112D	Water	Yes	Yes	--	--	--	
	11/18/2020	USEPA/SW846	MW-9502S	Water	Yes	Yes	--	--	--	
	11/18/2020	USEPA/SW846	PTMW-0202	Water	Yes	Yes	--	--	--	
	11/18/2020	USEPA/SW846	DUP-111820	Water	Yes	Yes	--	--	--	
	11/18/2020	USEPA/SW846	TRIP BLANK	Water	Yes	--	--	--	--	

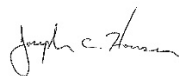
Note:

- 1 Samples which are compliant with no added validation qualifiers are listed as "yes". Samples which are non-compliant or which have added qualifiers are listed as "no". A "no" designation does not necessarily indicate that the data have been rejected or are otherwise unusable.

DATA USABILITY SUMMARY REPORT

VALIDATION PERFORMED BY: Joseph C. Houser

SIGNATURE:



DATE: December 14, 2020

PEER REVIEW: Dennis Capria

DATE: December 16, 2020

CHAIN OF CUSTODY

CORRECTED SAMPLE ANALYSIS DATA
SHEETS



Client Sample Results

Client: New York State Electric & Gas
Project/Site: NYSEG - Oneonta

Job ID: 480-178499-1

Client Sample ID: MW-8604S

Lab Sample ID: 480-178499-1

Date Collected: 11/18/20 09:15

Matrix: WG

Date Received: 11/19/20 19:06

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			11/22/20 02:27	1
Ethylbenzene	ND		1.0	0.74	ug/L			11/22/20 02:27	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			11/22/20 02:27	1
o-Xylene	ND		1.0	0.76	ug/L			11/22/20 02:27	1
Toluene	ND		1.0	0.51	ug/L			11/22/20 02:27	1
Xylenes, Total	ND		2.0	0.66	ug/L			11/22/20 02:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		77 - 120		11/22/20 02:27	1
4-Bromofluorobenzene (Surr)	104		73 - 120		11/22/20 02:27	1
Dibromofluoromethane (Surr)	107		75 - 123		11/22/20 02:27	1
Toluene-d8 (Surr)	105		80 - 120		11/22/20 02:27	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	3.6	J	5.0	0.41	ug/L		11/23/20 15:16	12/04/20 16:50	1
Acenaphthylene	0.60	J	5.0	0.38	ug/L		11/23/20 15:16	12/04/20 16:50	1
Anthracene	ND		5.0	0.28	ug/L		11/23/20 15:16	12/04/20 16:50	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		11/23/20 15:16	12/04/20 16:50	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		11/23/20 15:16	12/04/20 16:50	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		11/23/20 15:16	12/04/20 16:50	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		11/23/20 15:16	12/04/20 16:50	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		11/23/20 15:16	12/04/20 16:50	1
Chrysene	ND		5.0	0.33	ug/L		11/23/20 15:16	12/04/20 16:50	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		11/23/20 15:16	12/04/20 16:50	1
Fluoranthene	0.55	J	5.0	0.40	ug/L		11/23/20 15:16	12/04/20 16:50	1
Fluorene	ND		5.0	0.36	ug/L		11/23/20 15:16	12/04/20 16:50	1
Indeno(1,2,3-c,d)pyrene	ND		5.0	0.47	ug/L		11/23/20 15:16	12/04/20 16:50	1
Naphthalene	ND		5.0	0.76	ug/L		11/23/20 15:16	12/04/20 16:50	1
Phenanthrene	ND		5.0	0.44	ug/L		11/23/20 15:16	12/04/20 16:50	1
Pyrene	0.57	J	5.0	0.34	ug/L		11/23/20 15:16	12/04/20 16:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	94		46 - 120	11/23/20 15:16	12/04/20 16:50	1
2-Fluorobiphenyl	103		48 - 120	11/23/20 15:16	12/04/20 16:50	1
p-Terphenyl-d14	89		60 - 148	11/23/20 15:16	12/04/20 16:50	1

Client Sample ID: MW-9114S

Lab Sample ID: 480-178499-2

Date Collected: 11/18/20 15:45

Matrix: WG

Date Received: 11/19/20 19:06

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			11/22/20 02:52	1
Ethylbenzene	ND		1.0	0.74	ug/L			11/22/20 02:52	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			11/22/20 02:52	1
o-Xylene	ND		1.0	0.76	ug/L			11/22/20 02:52	1
Toluene	ND		1.0	0.51	ug/L			11/22/20 02:52	1
Xylenes, Total	ND		2.0	0.66	ug/L			11/22/20 02:52	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State Electric & Gas
Project/Site: NYSEG - Oneonta

Job ID: 480-178499-1

Client Sample ID: MW-9114S

Lab Sample ID: 480-178499-2

Date Collected: 11/18/20 15:45

Matrix: WG

Date Received: 11/19/20 19:06

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		77 - 120		11/22/20 02:52	1
4-Bromofluorobenzene (Surr)	106		73 - 120		11/22/20 02:52	1
Dibromofluoromethane (Surr)	103		75 - 123		11/22/20 02:52	1
Toluene-d8 (Surr)	107		80 - 120		11/22/20 02:52	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.41	ug/L		11/23/20 15:16	12/04/20 17:19	1
Acenaphthylene	ND		5.0	0.38	ug/L		11/23/20 15:16	12/04/20 17:19	1
Anthracene	ND		5.0	0.28	ug/L		11/23/20 15:16	12/04/20 17:19	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		11/23/20 15:16	12/04/20 17:19	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		11/23/20 15:16	12/04/20 17:19	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		11/23/20 15:16	12/04/20 17:19	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		11/23/20 15:16	12/04/20 17:19	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		11/23/20 15:16	12/04/20 17:19	1
Chrysene	ND		5.0	0.33	ug/L		11/23/20 15:16	12/04/20 17:19	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		11/23/20 15:16	12/04/20 17:19	1
Fluoranthene	ND		5.0	0.40	ug/L		11/23/20 15:16	12/04/20 17:19	1
Fluorene	ND		5.0	0.36	ug/L		11/23/20 15:16	12/04/20 17:19	1
Indeno(1,2,3-c,d)pyrene	ND		5.0	0.47	ug/L		11/23/20 15:16	12/04/20 17:19	1
Naphthalene	ND		5.0	0.76	ug/L		11/23/20 15:16	12/04/20 17:19	1
Phenanthrene	ND		5.0	0.44	ug/L		11/23/20 15:16	12/04/20 17:19	1
Pyrene	ND		5.0	0.34	ug/L		11/23/20 15:16	12/04/20 17:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	97		46 - 120	11/23/20 15:16	12/04/20 17:19	1
2-Fluorobiphenyl	102		48 - 120	11/23/20 15:16	12/04/20 17:19	1
p-Terphenyl-d14	84		60 - 148	11/23/20 15:16	12/04/20 17:19	1

Client Sample ID: MW-8806S

Lab Sample ID: 480-178499-3

Date Collected: 11/18/20 16:35

Matrix: WG

Date Received: 11/19/20 19:06

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	23		1.0	0.41	ug/L			11/22/20 03:16	1
Ethylbenzene	13		1.0	0.74	ug/L			11/22/20 03:16	1
m-Xylene & p-Xylene	1.4	J	2.0	0.66	ug/L			11/22/20 03:16	1
o-Xylene	6.7		1.0	0.76	ug/L			11/22/20 03:16	1
Toluene	0.75	J	1.0	0.51	ug/L			11/22/20 03:16	1
Xylenes, Total	8.1		2.0	0.66	ug/L			11/22/20 03:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		77 - 120		11/22/20 03:16	1
4-Bromofluorobenzene (Surr)	106		73 - 120		11/22/20 03:16	1
Dibromofluoromethane (Surr)	104		75 - 123		11/22/20 03:16	1
Toluene-d8 (Surr)	106		80 - 120		11/22/20 03:16	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	3.3	J	5.0	0.41	ug/L		11/23/20 15:16	12/04/20 17:48	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State Electric & Gas
Project/Site: NYSEG - Oneonta

Job ID: 480-178499-1

Client Sample ID: MW-8806S

Lab Sample ID: 480-178499-3

Date Collected: 11/18/20 16:35

Matrix: WG

Date Received: 11/19/20 19:06

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	ND		5.0	0.38	ug/L		11/23/20 15:16	12/04/20 17:48	1
Anthracene	ND		5.0	0.28	ug/L		11/23/20 15:16	12/04/20 17:48	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		11/23/20 15:16	12/04/20 17:48	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		11/23/20 15:16	12/04/20 17:48	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		11/23/20 15:16	12/04/20 17:48	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		11/23/20 15:16	12/04/20 17:48	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		11/23/20 15:16	12/04/20 17:48	1
Chrysene	ND		5.0	0.33	ug/L		11/23/20 15:16	12/04/20 17:48	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		11/23/20 15:16	12/04/20 17:48	1
Fluoranthene	ND		5.0	0.40	ug/L		11/23/20 15:16	12/04/20 17:48	1
Fluorene	ND		5.0	0.36	ug/L		11/23/20 15:16	12/04/20 17:48	1
Indeno(1,2,3-c,d)pyrene	ND		5.0	0.47	ug/L		11/23/20 15:16	12/04/20 17:48	1
Naphthalene	ND		5.0	0.76	ug/L		11/23/20 15:16	12/04/20 17:48	1
Phenanthrene	ND		5.0	0.44	ug/L		11/23/20 15:16	12/04/20 17:48	1
Pyrene	ND		5.0	0.34	ug/L		11/23/20 15:16	12/04/20 17:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	88		46 - 120	11/23/20 15:16	12/04/20 17:48	1
2-Fluorobiphenyl	94		48 - 120	11/23/20 15:16	12/04/20 17:48	1
p-Terphenyl-d14	93		60 - 148	11/23/20 15:16	12/04/20 17:48	1

Client Sample ID: MW-0201

Lab Sample ID: 480-178499-4

Date Collected: 11/18/20 09:35

Matrix: WG

Date Received: 11/19/20 19:06

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	120		2.0	0.82	ug/L			11/22/20 03:40	2
Ethylbenzene	92		2.0	1.5	ug/L			11/22/20 03:40	2
m-Xylene & p-Xylene	18		4.0	1.3	ug/L			11/22/20 03:40	2
o-Xylene	55		2.0	1.5	ug/L			11/22/20 03:40	2
Toluene	3.0		2.0	1.0	ug/L			11/22/20 03:40	2
Xylenes, Total	73		4.0	1.3	ug/L			11/22/20 03:40	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		77 - 120		11/22/20 03:40	2
4-Bromofluorobenzene (Surr)	103		73 - 120		11/22/20 03:40	2
Dibromofluoromethane (Surr)	106		75 - 123		11/22/20 03:40	2
Toluene-d8 (Surr)	102		80 - 120		11/22/20 03:40	2

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.41	ug/L		11/23/20 15:16	12/04/20 18:16	1
Acenaphthylene	ND		5.0	0.38	ug/L		11/23/20 15:16	12/04/20 18:16	1
Anthracene	ND		5.0	0.28	ug/L		11/23/20 15:16	12/04/20 18:16	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		11/23/20 15:16	12/04/20 18:16	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		11/23/20 15:16	12/04/20 18:16	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		11/23/20 15:16	12/04/20 18:16	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		11/23/20 15:16	12/04/20 18:16	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		11/23/20 15:16	12/04/20 18:16	1
Chrysene	ND		5.0	0.33	ug/L		11/23/20 15:16	12/04/20 18:16	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State Electric & Gas
Project/Site: NYSEG - Oneonta

Job ID: 480-178499-1

Client Sample ID: MW-0201

Lab Sample ID: 480-178499-4

Date Collected: 11/18/20 09:35

Matrix: WG

Date Received: 11/19/20 19:06

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		11/23/20 15:16	12/04/20 18:16	1
Fluoranthene	ND		5.0	0.40	ug/L		11/23/20 15:16	12/04/20 18:16	1
Fluorene	ND		5.0	0.36	ug/L		11/23/20 15:16	12/04/20 18:16	1
Indeno(1,2,3-c,d)pyrene	ND		5.0	0.47	ug/L		11/23/20 15:16	12/04/20 18:16	1
Naphthalene	0.90	J	5.0	0.76	ug/L		11/23/20 15:16	12/04/20 18:16	1
Phenanthrene	ND		5.0	0.44	ug/L		11/23/20 15:16	12/04/20 18:16	1
Pyrene	ND		5.0	0.34	ug/L		11/23/20 15:16	12/04/20 18:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	94		46 - 120	11/23/20 15:16	12/04/20 18:16	1
2-Fluorobiphenyl	101		48 - 120	11/23/20 15:16	12/04/20 18:16	1
p-Terphenyl-d14	92		60 - 148	11/23/20 15:16	12/04/20 18:16	1

Client Sample ID: MW-9111S

Lab Sample ID: 480-178499-5

Date Collected: 11/18/20 10:30

Matrix: WG

Date Received: 11/19/20 19:06

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	6.8		1.0	0.41	ug/L			11/22/20 04:05	1
Ethylbenzene	ND		1.0	0.74	ug/L			11/22/20 04:05	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			11/22/20 04:05	1
o-Xylene	ND		1.0	0.76	ug/L			11/22/20 04:05	1
Toluene	ND		1.0	0.51	ug/L			11/22/20 04:05	1
Xylenes, Total	ND		2.0	0.66	ug/L			11/22/20 04:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		77 - 120		11/22/20 04:05	1
4-Bromofluorobenzene (Surr)	105		73 - 120		11/22/20 04:05	1
Dibromofluoromethane (Surr)	106		75 - 123		11/22/20 04:05	1
Toluene-d8 (Surr)	103		80 - 120		11/22/20 04:05	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	3.7	J	5.0	0.41	ug/L		11/23/20 15:16	12/04/20 18:44	1
Acenaphthylene	ND		5.0	0.38	ug/L		11/23/20 15:16	12/04/20 18:44	1
Anthracene	ND		5.0	0.28	ug/L		11/23/20 15:16	12/04/20 18:44	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		11/23/20 15:16	12/04/20 18:44	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		11/23/20 15:16	12/04/20 18:44	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		11/23/20 15:16	12/04/20 18:44	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		11/23/20 15:16	12/04/20 18:44	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		11/23/20 15:16	12/04/20 18:44	1
Chrysene	ND		5.0	0.33	ug/L		11/23/20 15:16	12/04/20 18:44	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		11/23/20 15:16	12/04/20 18:44	1
Fluoranthene	ND		5.0	0.40	ug/L		11/23/20 15:16	12/04/20 18:44	1
Fluorene	ND		5.0	0.36	ug/L		11/23/20 15:16	12/04/20 18:44	1
Indeno(1,2,3-c,d)pyrene	ND		5.0	0.47	ug/L		11/23/20 15:16	12/04/20 18:44	1
Naphthalene	ND		5.0	0.76	ug/L		11/23/20 15:16	12/04/20 18:44	1
Phenanthrene	ND		5.0	0.44	ug/L		11/23/20 15:16	12/04/20 18:44	1
Pyrene	ND		5.0	0.34	ug/L		11/23/20 15:16	12/04/20 18:44	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State Electric & Gas
Project/Site: NYSEG - Oneonta

Job ID: 480-178499-1

Client Sample ID: MW-9111S

Date Collected: 11/18/20 10:30

Date Received: 11/19/20 19:06

Lab Sample ID: 480-178499-5

Matrix: WG

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	89		46 - 120	11/23/20 15:16	12/04/20 18:44	1
2-Fluorobiphenyl	95		48 - 120	11/23/20 15:16	12/04/20 18:44	1
p-Terphenyl-d14	86		60 - 148	11/23/20 15:16	12/04/20 18:44	1

Client Sample ID: MW-0203

Date Collected: 11/18/20 11:00

Date Received: 11/19/20 19:06

Lab Sample ID: 480-178499-6

Matrix: WG

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			11/22/20 04:29	1
Ethylbenzene	ND		1.0	0.74	ug/L			11/22/20 04:29	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			11/22/20 04:29	1
o-Xylene	ND		1.0	0.76	ug/L			11/22/20 04:29	1
Toluene	ND		1.0	0.51	ug/L			11/22/20 04:29	1
Xylenes, Total	ND		2.0	0.66	ug/L			11/22/20 04:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		77 - 120		11/22/20 04:29	1
4-Bromofluorobenzene (Surr)	104		73 - 120		11/22/20 04:29	1
Dibromofluoromethane (Surr)	105		75 - 123		11/22/20 04:29	1
Toluene-d8 (Surr)	104		80 - 120		11/22/20 04:29	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.41	ug/L		11/23/20 15:16	12/04/20 19:13	1
Acenaphthylene	ND		5.0	0.38	ug/L		11/23/20 15:16	12/04/20 19:13	1
Anthracene	ND		5.0	0.28	ug/L		11/23/20 15:16	12/04/20 19:13	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		11/23/20 15:16	12/04/20 19:13	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		11/23/20 15:16	12/04/20 19:13	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		11/23/20 15:16	12/04/20 19:13	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		11/23/20 15:16	12/04/20 19:13	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		11/23/20 15:16	12/04/20 19:13	1
Chrysene	ND		5.0	0.33	ug/L		11/23/20 15:16	12/04/20 19:13	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		11/23/20 15:16	12/04/20 19:13	1
Fluoranthene	ND		5.0	0.40	ug/L		11/23/20 15:16	12/04/20 19:13	1
Fluorene	ND		5.0	0.36	ug/L		11/23/20 15:16	12/04/20 19:13	1
Indeno(1,2,3-c,d)pyrene	ND		5.0	0.47	ug/L		11/23/20 15:16	12/04/20 19:13	1
Naphthalene	1.1	J	5.0	0.76	ug/L		11/23/20 15:16	12/04/20 19:13	1
Phenanthrene	ND		5.0	0.44	ug/L		11/23/20 15:16	12/04/20 19:13	1
Pyrene	ND		5.0	0.34	ug/L		11/23/20 15:16	12/04/20 19:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	90		46 - 120	11/23/20 15:16	12/04/20 19:13	1
2-Fluorobiphenyl	99		48 - 120	11/23/20 15:16	12/04/20 19:13	1
p-Terphenyl-d14	89		60 - 148	11/23/20 15:16	12/04/20 19:13	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State Electric & Gas
Project/Site: NYSEG - Oneonta

Job ID: 480-178499-1

Client Sample ID: MW-9112S

Lab Sample ID: 480-178499-7

Date Collected: 11/18/20 13:55

Matrix: WG

Date Received: 11/19/20 19:06

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			11/22/20 04:53	1
Ethylbenzene	ND		1.0	0.74	ug/L			11/22/20 04:53	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			11/22/20 04:53	1
o-Xylene	ND		1.0	0.76	ug/L			11/22/20 04:53	1
Toluene	ND		1.0	0.51	ug/L			11/22/20 04:53	1
Xylenes, Total	ND		2.0	0.66	ug/L			11/22/20 04:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		77 - 120		11/22/20 04:53	1
4-Bromofluorobenzene (Surr)	100		73 - 120		11/22/20 04:53	1
Dibromofluoromethane (Surr)	102		75 - 123		11/22/20 04:53	1
Toluene-d8 (Surr)	103		80 - 120		11/22/20 04:53	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.41	ug/L		11/23/20 15:16	12/04/20 19:41	1
Acenaphthylene	ND		5.0	0.38	ug/L		11/23/20 15:16	12/04/20 19:41	1
Anthracene	ND		5.0	0.28	ug/L		11/23/20 15:16	12/04/20 19:41	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		11/23/20 15:16	12/04/20 19:41	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		11/23/20 15:16	12/04/20 19:41	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		11/23/20 15:16	12/04/20 19:41	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		11/23/20 15:16	12/04/20 19:41	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		11/23/20 15:16	12/04/20 19:41	1
Chrysene	ND		5.0	0.33	ug/L		11/23/20 15:16	12/04/20 19:41	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		11/23/20 15:16	12/04/20 19:41	1
Fluoranthene	ND		5.0	0.40	ug/L		11/23/20 15:16	12/04/20 19:41	1
Fluorene	ND		5.0	0.36	ug/L		11/23/20 15:16	12/04/20 19:41	1
Indeno(1,2,3-c,d)pyrene	ND		5.0	0.47	ug/L		11/23/20 15:16	12/04/20 19:41	1
Naphthalene	ND		5.0	0.76	ug/L		11/23/20 15:16	12/04/20 19:41	1
Phenanthrene	ND		5.0	0.44	ug/L		11/23/20 15:16	12/04/20 19:41	1
Pyrene	ND		5.0	0.34	ug/L		11/23/20 15:16	12/04/20 19:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	95		46 - 120	11/23/20 15:16	12/04/20 19:41	1
2-Fluorobiphenyl	102		48 - 120	11/23/20 15:16	12/04/20 19:41	1
p-Terphenyl-d14	93		60 - 148	11/23/20 15:16	12/04/20 19:41	1

Client Sample ID: MW-9112D

Lab Sample ID: 480-178499-8

Date Collected: 11/18/20 12:25

Matrix: WG

Date Received: 11/19/20 19:06

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			11/22/20 05:18	1
Ethylbenzene	ND		1.0	0.74	ug/L			11/22/20 05:18	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			11/22/20 05:18	1
o-Xylene	ND		1.0	0.76	ug/L			11/22/20 05:18	1
Toluene	ND		1.0	0.51	ug/L			11/22/20 05:18	1
Xylenes, Total	ND		2.0	0.66	ug/L			11/22/20 05:18	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State Electric & Gas
Project/Site: NYSEG - Oneonta

Job ID: 480-178499-1

Client Sample ID: MW-9112D

Lab Sample ID: 480-178499-8

Date Collected: 11/18/20 12:25

Matrix: WG

Date Received: 11/19/20 19:06

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		77 - 120		11/22/20 05:18	1
4-Bromofluorobenzene (Surr)	103		73 - 120		11/22/20 05:18	1
Dibromofluoromethane (Surr)	100		75 - 123		11/22/20 05:18	1
Toluene-d8 (Surr)	104		80 - 120		11/22/20 05:18	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.41	ug/L		11/23/20 15:16	12/04/20 20:11	1
Acenaphthylene	ND		5.0	0.38	ug/L		11/23/20 15:16	12/04/20 20:11	1
Anthracene	ND		5.0	0.28	ug/L		11/23/20 15:16	12/04/20 20:11	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		11/23/20 15:16	12/04/20 20:11	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		11/23/20 15:16	12/04/20 20:11	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		11/23/20 15:16	12/04/20 20:11	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		11/23/20 15:16	12/04/20 20:11	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		11/23/20 15:16	12/04/20 20:11	1
Chrysene	ND		5.0	0.33	ug/L		11/23/20 15:16	12/04/20 20:11	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		11/23/20 15:16	12/04/20 20:11	1
Fluoranthene	ND		5.0	0.40	ug/L		11/23/20 15:16	12/04/20 20:11	1
Fluorene	ND		5.0	0.36	ug/L		11/23/20 15:16	12/04/20 20:11	1
Indeno(1,2,3-c,d)pyrene	ND		5.0	0.47	ug/L		11/23/20 15:16	12/04/20 20:11	1
Naphthalene	ND		5.0	0.76	ug/L		11/23/20 15:16	12/04/20 20:11	1
Phenanthrene	ND		5.0	0.44	ug/L		11/23/20 15:16	12/04/20 20:11	1
Pyrene	ND		5.0	0.34	ug/L		11/23/20 15:16	12/04/20 20:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	89		46 - 120	11/23/20 15:16	12/04/20 20:11	1
2-Fluorobiphenyl	97		48 - 120	11/23/20 15:16	12/04/20 20:11	1
p-Terphenyl-d14	91		60 - 148	11/23/20 15:16	12/04/20 20:11	1

Client Sample ID: MW-9502S

Lab Sample ID: 480-178499-9

Date Collected: 11/18/20 13:50

Matrix: WG

Date Received: 11/19/20 19:06

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			11/22/20 05:41	1
Ethylbenzene	ND		1.0	0.74	ug/L			11/22/20 05:41	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			11/22/20 05:41	1
o-Xylene	ND		1.0	0.76	ug/L			11/22/20 05:41	1
Toluene	ND		1.0	0.51	ug/L			11/22/20 05:41	1
Xylenes, Total	ND		2.0	0.66	ug/L			11/22/20 05:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		77 - 120		11/22/20 05:41	1
4-Bromofluorobenzene (Surr)	104		73 - 120		11/22/20 05:41	1
Dibromofluoromethane (Surr)	104		75 - 123		11/22/20 05:41	1
Toluene-d8 (Surr)	105		80 - 120		11/22/20 05:41	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	0.41	ug/L		11/23/20 15:16	12/04/20 16:21	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State Electric & Gas
Project/Site: NYSEG - Oneonta

Job ID: 480-178499-1

Client Sample ID: MW-9502S

Lab Sample ID: 480-178499-9

Date Collected: 11/18/20 13:50

Matrix: WG

Date Received: 11/19/20 19:06

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	ND		5.0	0.38	ug/L		11/23/20 15:16	12/04/20 16:21	1
Anthracene	ND		5.0	0.28	ug/L		11/23/20 15:16	12/04/20 16:21	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		11/23/20 15:16	12/04/20 16:21	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		11/23/20 15:16	12/04/20 16:21	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		11/23/20 15:16	12/04/20 16:21	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		11/23/20 15:16	12/04/20 16:21	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		11/23/20 15:16	12/04/20 16:21	1
Chrysene	ND		5.0	0.33	ug/L		11/23/20 15:16	12/04/20 16:21	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		11/23/20 15:16	12/04/20 16:21	1
Fluoranthene	ND		5.0	0.40	ug/L		11/23/20 15:16	12/04/20 16:21	1
Fluorene	ND		5.0	0.36	ug/L		11/23/20 15:16	12/04/20 16:21	1
Indeno(1,2,3-c,d)pyrene	ND		5.0	0.47	ug/L		11/23/20 15:16	12/04/20 16:21	1
Naphthalene	ND		5.0	0.76	ug/L		11/23/20 15:16	12/04/20 16:21	1
Phenanthrene	ND		5.0	0.44	ug/L		11/23/20 15:16	12/04/20 16:21	1
Pyrene	ND		5.0	0.34	ug/L		11/23/20 15:16	12/04/20 16:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	95		46 - 120	11/23/20 15:16	12/04/20 16:21	1
2-Fluorobiphenyl	102		48 - 120	11/23/20 15:16	12/04/20 16:21	1
p-Terphenyl-d14	82		60 - 148	11/23/20 15:16	12/04/20 16:21	1

Client Sample ID: PTMW-0202

Lab Sample ID: 480-178499-10

Date Collected: 11/18/20 11:50

Matrix: WG

Date Received: 11/19/20 19:06

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
~~Benzene~~	~~566~~	~~E~~	~~1.0~~	~~0.41~~	~~ug/L~~			~~11/22/20 06:05~~	~~1~~
Ethylbenzene	0.98	J	1.0	0.74	ug/L			11/22/20 06:05	1
m-Xylene & p-Xylene	2.9		2.0	0.66	ug/L			11/22/20 06:05	1
o-Xylene	11		1.0	0.76	ug/L			11/22/20 06:05	1
Toluene	0.64	J	1.0	0.51	ug/L			11/22/20 06:05	1
Xylenes, Total	14		2.0	0.66	ug/L			11/22/20 06:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		77 - 120		11/22/20 06:05	1
4-Bromofluorobenzene (Surr)	106		73 - 120		11/22/20 06:05	1
Dibromofluoromethane (Surr)	98		75 - 123		11/22/20 06:05	1
Toluene-d8 (Surr)	106		80 - 120		11/22/20 06:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	580	D	10	4.1	ug/L			11/23/20 13:42	10
Ethylbenzene	ND		10	7.4	ug/L			11/23/20 13:42	10
m-Xylene & p-Xylene	ND		20	6.6	ug/L			11/23/20 13:42	10
o-Xylene	11		10	7.6	ug/L			11/23/20 13:42	10
Toluene	ND		10	5.1	ug/L			11/23/20 13:42	10
Xylenes, Total	11	J	20	6.6	ug/L			11/23/20 13:42	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		77 - 120		11/23/20 13:42	10

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State Electric & Gas
Project/Site: NYSEG - Oneonta

Job ID: 480-178499-1

Client Sample ID: PTMW-0202

Lab Sample ID: 480-178499-10

Date Collected: 11/18/20 11:50

Matrix: WG

Date Received: 11/19/20 19:06

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		73 - 120		11/23/20 13:42	10
Dibromofluoromethane (Surr)	100		75 - 123		11/23/20 13:42	10
Toluene-d8 (Surr)	106		80 - 120		11/23/20 13:42	10

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	73		25	2.1	ug/L		11/23/20 15:16	12/04/20 20:39	5
Acenaphthylene	ND		25	1.9	ug/L		11/23/20 15:16	12/04/20 20:39	5
Anthracene	ND		25	1.4	ug/L		11/23/20 15:16	12/04/20 20:39	5
Benzo(a)anthracene	ND		25	1.8	ug/L		11/23/20 15:16	12/04/20 20:39	5
Benzo(a)pyrene	ND		25	2.4	ug/L		11/23/20 15:16	12/04/20 20:39	5
Benzo(b)fluoranthene	ND		25	1.7	ug/L		11/23/20 15:16	12/04/20 20:39	5
Benzo(g,h,i)perylene	ND		25	1.8	ug/L		11/23/20 15:16	12/04/20 20:39	5
Benzo(k)fluoranthene	ND		25	3.7	ug/L		11/23/20 15:16	12/04/20 20:39	5
Chrysene	ND		25	1.7	ug/L		11/23/20 15:16	12/04/20 20:39	5
Dibenz(a,h)anthracene	ND		25	2.1	ug/L		11/23/20 15:16	12/04/20 20:39	5
Fluoranthene	ND		25	2.0	ug/L		11/23/20 15:16	12/04/20 20:39	5
Fluorene	15	J	25	1.8	ug/L		11/23/20 15:16	12/04/20 20:39	5
Indeno(1,2,3-c,d)pyrene	ND		25	2.4	ug/L		11/23/20 15:16	12/04/20 20:39	5
Naphthalene	110		25	3.8	ug/L		11/23/20 15:16	12/04/20 20:39	5
Phenanthrene	3.2	J	25	2.2	ug/L		11/23/20 15:16	12/04/20 20:39	5
Pyrene	ND		25	1.7	ug/L		11/23/20 15:16	12/04/20 20:39	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	86		46 - 120	11/23/20 15:16	12/04/20 20:39	5
2-Fluorobiphenyl	97		48 - 120	11/23/20 15:16	12/04/20 20:39	5
p-Terphenyl-d14	72		60 - 148	11/23/20 15:16	12/04/20 20:39	5

Client Sample ID: DUP-111820

Lab Sample ID: 480-178499-11

Date Collected: 11/18/20 00:00

Matrix: Water

Date Received: 11/19/20 19:06

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	586	E	1.0	0.41	ug/L		11/22/20 06:29	11/22/20 06:29	1
Ethylbenzene	0.99	J	1.0	0.74	ug/L		11/22/20 06:29	11/22/20 06:29	1
m-Xylene & p-Xylene	2.8		2.0	0.66	ug/L		11/22/20 06:29	11/22/20 06:29	1
o-Xylene	11		1.0	0.76	ug/L		11/22/20 06:29	11/22/20 06:29	1
Toluene	0.70	J	1.0	0.51	ug/L		11/22/20 06:29	11/22/20 06:29	1
Xylenes, Total	14		2.0	0.66	ug/L		11/22/20 06:29	11/22/20 06:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		77 - 120		11/22/20 06:29	1
4-Bromofluorobenzene (Surr)	104		73 - 120		11/22/20 06:29	1
Dibromofluoromethane (Surr)	104		75 - 123		11/22/20 06:29	1
Toluene-d8 (Surr)	105		80 - 120		11/22/20 06:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	570	D	10	4.1	ug/L			11/23/20 14:07	10

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State Electric & Gas
Project/Site: NYSEG - Oneonta

Job ID: 480-178499-1

Client Sample ID: DUP-111820

Lab Sample ID: 480-178499-11

Date Collected: 11/18/20 00:00

Matrix: Water

Date Received: 11/19/20 19:06

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		10	7.4	ug/L			11/23/20 14:07	10
m-Xylene & p-Xylene	ND		20	6.6	ug/L			11/23/20 14:07	10
o-Xylene	11		10	7.6	ug/L			11/23/20 14:07	10
Toluene	ND		10	5.1	ug/L			11/23/20 14:07	10
Xylenes, Total	11	J	20	6.6	ug/L			11/23/20 14:07	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		77 - 120		11/23/20 14:07	10
4-Bromofluorobenzene (Surr)	103		73 - 120		11/23/20 14:07	10
Dibromofluoromethane (Surr)	99		75 - 123		11/23/20 14:07	10
Toluene-d8 (Surr)	104		80 - 120		11/23/20 14:07	10

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	68		25	2.1	ug/L		11/23/20 15:16	12/04/20 21:08	5
Acenaphthylene	ND		25	1.9	ug/L		11/23/20 15:16	12/04/20 21:08	5
Anthracene	ND		25	1.4	ug/L		11/23/20 15:16	12/04/20 21:08	5
Benzo(a)anthracene	ND		25	1.8	ug/L		11/23/20 15:16	12/04/20 21:08	5
Benzo(a)pyrene	ND		25	2.4	ug/L		11/23/20 15:16	12/04/20 21:08	5
Benzo(b)fluoranthene	ND		25	1.7	ug/L		11/23/20 15:16	12/04/20 21:08	5
Benzo(g,h,i)perylene	ND		25	1.8	ug/L		11/23/20 15:16	12/04/20 21:08	5
Benzo(k)fluoranthene	ND		25	3.7	ug/L		11/23/20 15:16	12/04/20 21:08	5
Chrysene	ND		25	1.7	ug/L		11/23/20 15:16	12/04/20 21:08	5
Dibenz(a,h)anthracene	ND		25	2.1	ug/L		11/23/20 15:16	12/04/20 21:08	5
Fluoranthene	ND		25	2.0	ug/L		11/23/20 15:16	12/04/20 21:08	5
Fluorene	14	J	25	1.8	ug/L		11/23/20 15:16	12/04/20 21:08	5
Indeno(1,2,3-c,d)pyrene	ND		25	2.4	ug/L		11/23/20 15:16	12/04/20 21:08	5
Naphthalene	95		25	3.8	ug/L		11/23/20 15:16	12/04/20 21:08	5
Phenanthrene	3.3	J	25	2.2	ug/L		11/23/20 15:16	12/04/20 21:08	5
Pyrene	ND		25	1.7	ug/L		11/23/20 15:16	12/04/20 21:08	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	81		46 - 120	11/23/20 15:16	12/04/20 21:08	5
2-Fluorobiphenyl	96		48 - 120	11/23/20 15:16	12/04/20 21:08	5
p-Terphenyl-d14	72		60 - 148	11/23/20 15:16	12/04/20 21:08	5

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-178499-12

Date Collected: 11/18/20 00:00

Matrix: Water

Date Received: 11/19/20 19:06

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			11/22/20 06:53	1
Ethylbenzene	ND		1.0	0.74	ug/L			11/22/20 06:53	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			11/22/20 06:53	1
o-Xylene	ND		1.0	0.76	ug/L			11/22/20 06:53	1
Toluene	ND		1.0	0.51	ug/L			11/22/20 06:53	1
Xylenes, Total	ND		2.0	0.66	ug/L			11/22/20 06:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		77 - 120		11/22/20 06:53	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State Electric & Gas
Project/Site: NYSEG - Oneonta

Job ID: 480-178499-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-178499-12

Date Collected: 11/18/20 00:00

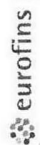
Matrix: Water

Date Received: 11/19/20 19:06

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

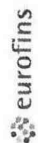
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
4-Bromofluorobenzene (Surr)	101		73 - 120		11/22/20 06:53	1
Dibromofluoromethane (Surr)	102		75 - 123		11/22/20 06:53	1
Toluene-d8 (Surr)	102		80 - 120		11/22/20 06:53	1

Chain of Custody Record

Environment Testing
America

Client Information Client Contact: Ryan Clare Company: ARCADIS U.S. Inc. Address: 100 Chestnut Street Suite 1020 City: Rochester State: NY Zip: 14604 Phone: 585-880-7747 Email: Ryan.Clare@arcadis.com Project Name: NYSEG - Oneonta Site: New York		Lab PM: Schove, John R E-Mail: John.Schove@Eurofinset.com Carrier Tracking No(s): COC No: 480-152695-29428.1 Page: Page 1 of 2 Job #:								
Due Date Requested: TAT Requested (days): Standard (10)		Analysis Requested Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid M - Hexane N - None O - AsNaO2 P - Na2O4S								
PO #: 4504497349 WO #: NYSEG Oneonta/John Ruspantini Project #: 48004125 SSOW#:		480-178499 Chain of Custody 								
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=tissue, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D - PAHs	8260C - BTEX	Total Number of	Special Instructions/Note:
MW-8604S	11/18/20	0915	G	Water			X	X	5	
MW-9114S	11/18/20	1545	G	Water			X	X	5	
MW-8806S	11/18/20	1635	G	Water			X	X	5	
MW-0201	11/18/20	0935	G	Water			X	X	5	
MW-9111S	11/18/20	1030	G	Water			X	X	5	
MW-0203	11/18/20	1100	G	Water			X	X	5	
MW-9112S	11/18/20	1355	G	Water			X	X	5	
MW-9112D	11/18/20	1225	G	Water			X	X	5	
MW-9502S	11/18/20	1350	G	Water			X	X	15	
PTMW-0202	11/18/20	1150	G	Water			X	X	5	
DUP-111820	11/18/20	-	G	Water			X	X	5	
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months Special Instructions/QC Requirements:										
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological Deliverable Requested: I, II, III, IV, Other (specify)										
Empty Kit Relinquished by: _____ Date: _____ Method of Shipment: _____										
Relinquished by: Ryan Clare Ryan Clare Date/Time: 11/19/20 1541 Company: Arcadis										
Relinquished by: Adam Swanson Adam Swanson Date/Time: 11/19/20 1906 Company: Arcadis										
Relinquished by: _____ Date/Time: _____ Company: _____										
Custody Seals Intact: ☐ Yes ☐ No Custody Seal No.: 24, 3, 2 #1 ICE										

Chain of Custody Record



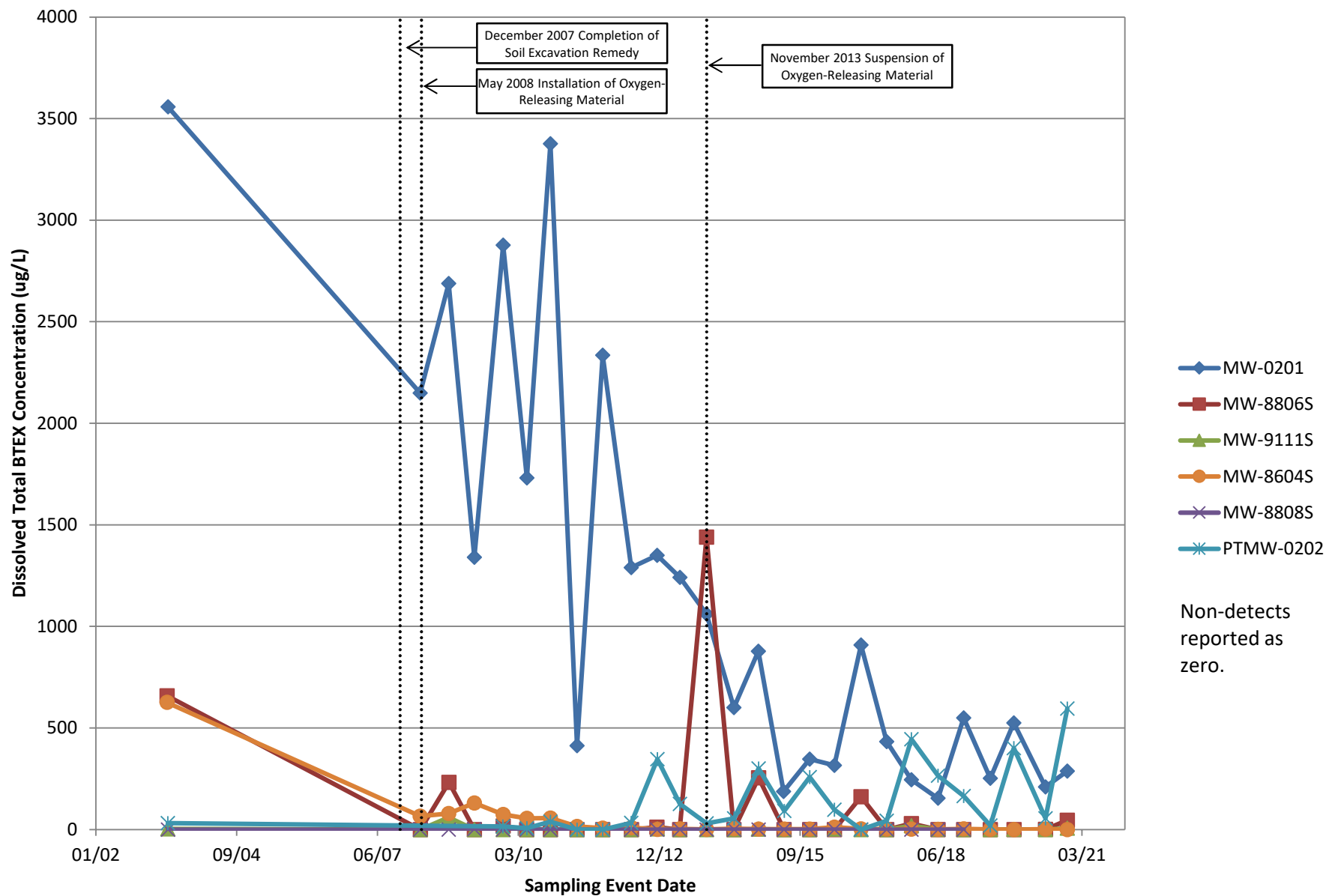
Environment Testing
 America

Client Information Client Contact: Ryan Clare Company: ARCADIS U.S. Inc. Address: 100 Chestnut Street Suite 1020 City: Rochester State Zip: NY, 14604 Phone: 585-880-7747 Email: Ryan.Clare@arcadis.com Project Name: NYSEG - Oneonta Site: New York		Lab PM: Schove, John R E-Mail: John.Schove@Eurofinset.com Carrier Tracking No(s): Job #:		COC No: 480-152695-29428.2 Page: Page 2 of 2	
Due Date Requested: TAT Requested (days): 10 (Standard)		Analysis Requested			
PO #: 4504497349 WO #: NYSEG Oneonta/John Ruspantini Project #: 48004125 SSOW#:		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Anichlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:			
Sample Identification TRIP BLANK		Sample Date: - Sample Time: - Sample Type (C=comp, G=grab): G Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air): Water		Perform MS/MSD (Yes or No): Field Filtered Sample (Yes or No): 8270D - PAHs: N 8260C - BTEX: X	
Special Instructions/Note: Total Number of containers: 1		Special Instructions/Note:			
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological					
Deliverable Requested: I, II, III, IV, Other (specify)					
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months					
Special Instructions/OC Requirements:					
Empty Kit Relinquished by: Ryan Clare RJC Relinquished by: Ryan Clare RJC Relinquished by: Ryan Clare RJC Relinquished by: Ryan Clare RJC		Date/Time: 11/19/20 1541 Date/Time: 11/19/20 1906 Date/Time:		Company: Arcadis Company: Arcadis Company: Arcadis	
Custody Seals Intact: ☒ Yes ☐ No		Cooler Temperature(s) °C and Other Remarks:			

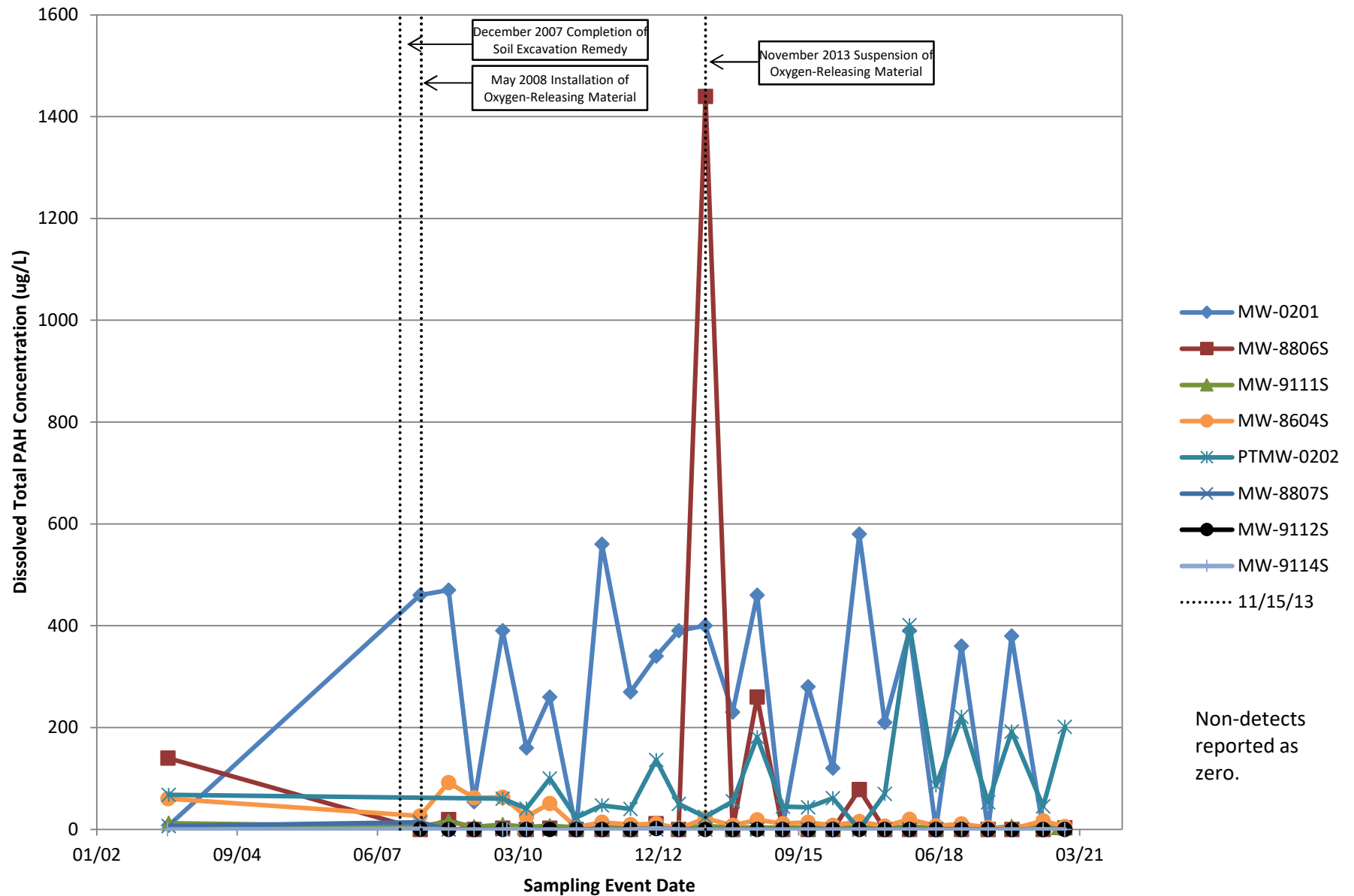
Appendix D

Graphs

Graph 1 - Dissolved Total BTEX Concentrations



Graph 2 - Dissolved Total PAH Concentrations



Appendix E

Well Photographic Logs

APPENDIX E – WELL INSPECTION PHOTOGRAPH LOG

NYSEG
Oneonta Former MGP Site
Oneonta, New York



Photograph: 1

Well ID:
MW-8604S

Description:
Monitoring well (stick-up) with secure cap and lockable lid is in good condition.

Photograph taken by:
RDC

Date: 6/15/2020



Photograph: 2

Well ID:
MW-8806S

Description:
Monitoring well with lockable cap is in good condition.

Photograph taken by:
RDC

Date: 6/15/2020

APPENDIX E – WELL INSPECTION PHOTOGRAPH LOG

NYSEG
Oneonta Former MGP Site
Oneonta, New York



Photograph: 3

Well ID:

MW-8807S

Description:

Monitoring well with
lockable cap is in good
condition.

Photograph taken by:

RDC

Date: 6/15/2020



Photograph: 4

Well ID:

MW-8808S

Description:

Monitoring well with
lockable cap is in good
condition.

Photograph taken by:

RDC

Date: 6/15/2020

APPENDIX E – WELL INSPECTION PHOTOGRAPH LOG

NYSEG
Oneonta Former MGP Site
Oneonta, New York



Photograph: 5

Well ID:
MW-9109S

Description:
Monitoring well with
secure cap is in good
condition.

Photograph taken by:
RDC

Date: 6/15/2020



Photograph: 6

Well ID:
MW-9110S

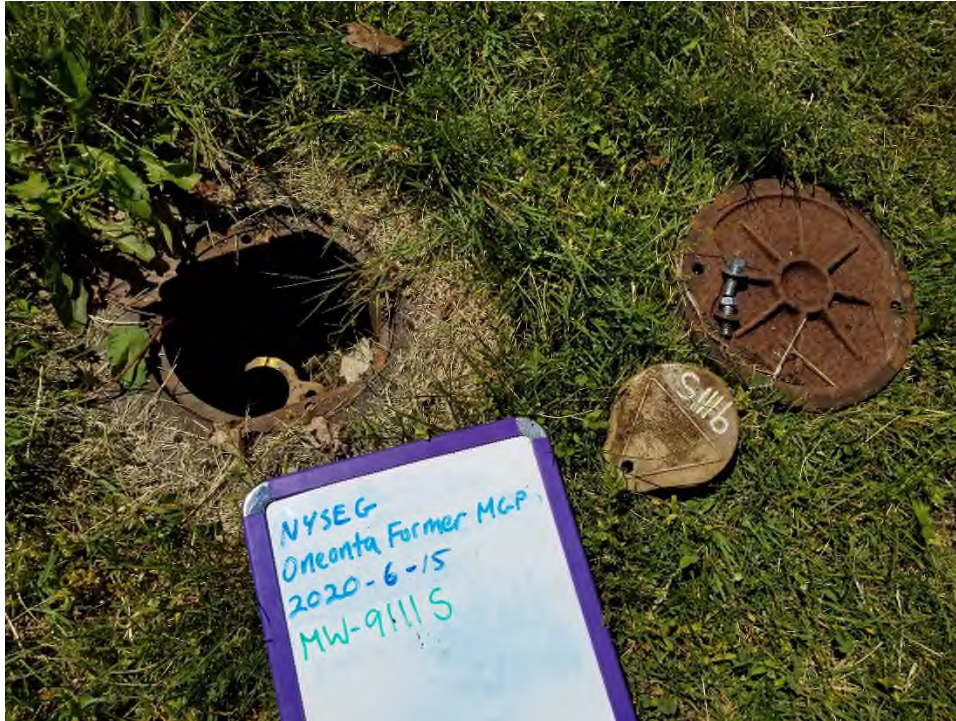
Description:
Monitoring well with
lockable cap is in good
condition.

Photograph taken by:
RDC

Date: 6/15/2020

APPENDIX E – WELL INSPECTION PHOTOGRAPH LOG

NYSEG
Oneonta Former MGP Site
Oneonta, New York



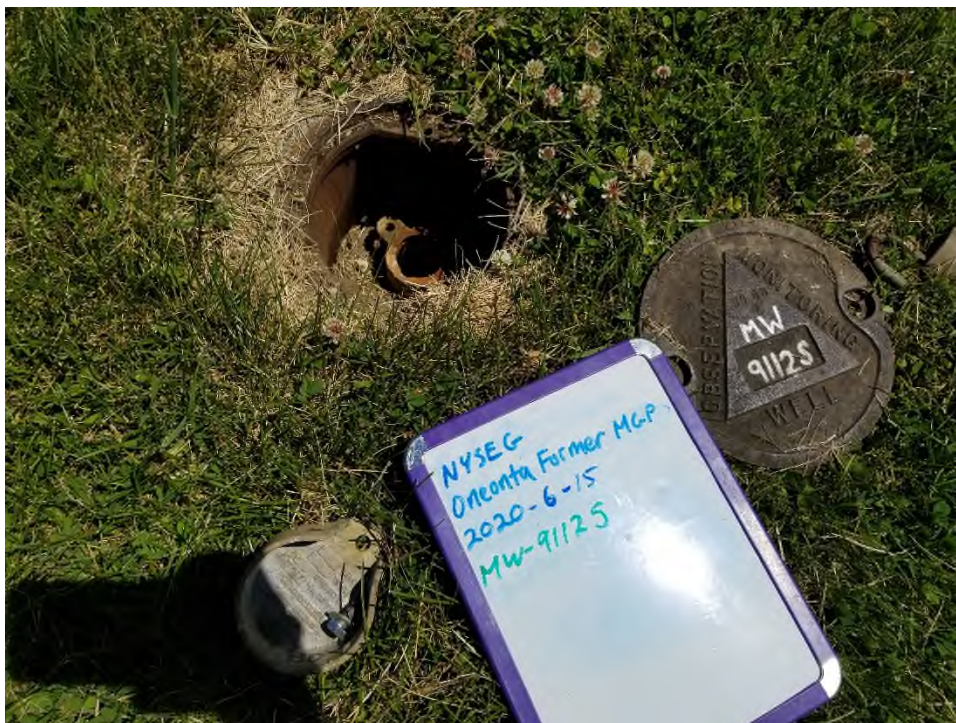
Photograph: 7

Well ID:
MW-9111S

Description:
Monitoring well with
lockable cap is in good
condition.

Photograph taken by:
RDC

Date: 6/15/2020



Photograph: 8

Well ID:
MW-9112S

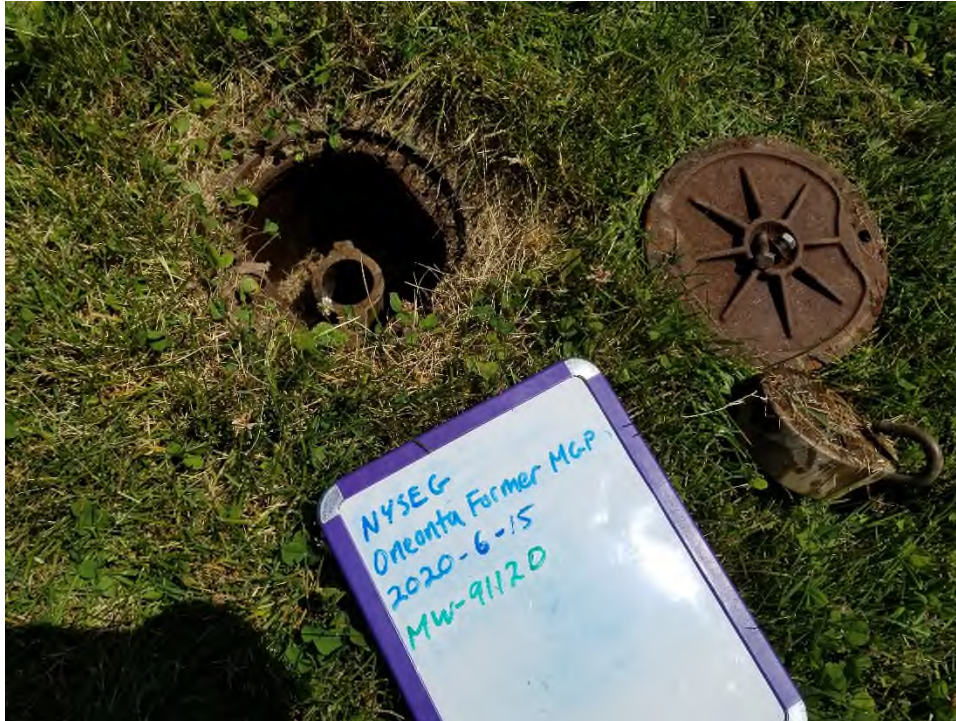
Description:
Monitoring well with
lockable cap is in fair
condition. One bolt
eyelet is missing from
road box.

Photograph taken by:
RDC

Date: 6/15/2020

APPENDIX E – WELL INSPECTION PHOTOGRAPH LOG

NYSEG
Oneonta Former MGP Site
Oneonta, New York



Photograph: 9

Well ID:
MW-9112D

Description:
Monitoring well with
lockable cap is in good
condition.

Photograph taken by:
RDC

Date: 6/15/2020



Photograph: 10

Well ID:
MW-9114S

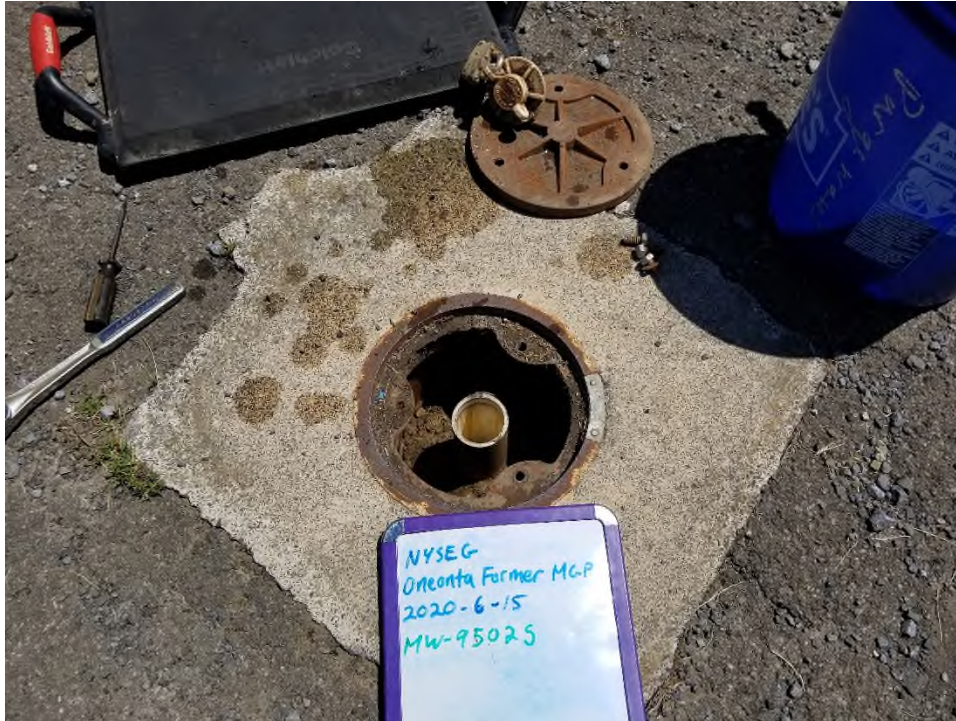
Description:
Monitoring well with
lockable cap is in good
condition.

Photograph taken by:
RDC

Date: 6/15/2020

APPENDIX E – WELL INSPECTION PHOTOGRAPH LOG

NYSEG
Oneonta Former MGP Site
Oneonta, New York



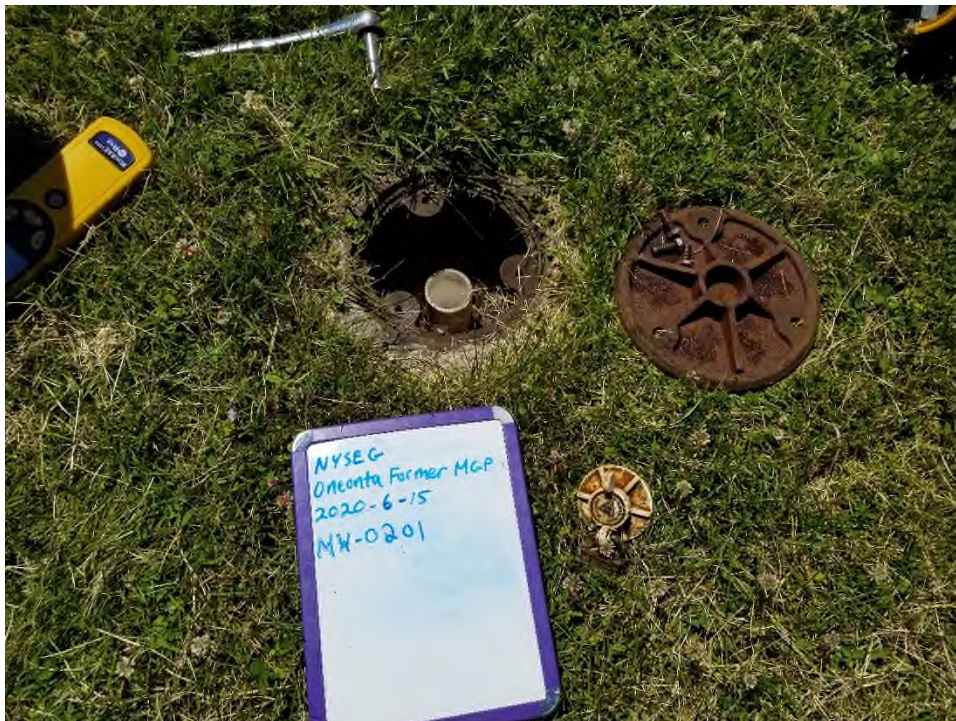
Photograph: 11

Well ID:
MW-9502S

Description:
Monitoring well with
lockable cap is in good
condition.

Photograph taken by:
RDC

Date: 6/15/2020



Photograph: 12

Well ID:
MW-0201

Description:
Monitoring well with
lockable cap is in good
condition.

Photograph taken by:
RDC

Date: 6/15/2020

APPENDIX E – WELL INSPECTION PHOTOGRAPH LOG

NYSEG
Oneonta Former MGP Site
Oneonta, New York



Photograph: 13

Well ID:
MW-0203

Description:
Monitoring well with
lockable cap is in good
condition.

Photograph taken by:
RDC

Date: 6/15/2020



Photograph: 14

Well ID:
MW-0301

Description:
Monitoring well with
lockable cap is in good
condition.

Photograph taken by:
RDC

Date: 6/15/2020

APPENDIX E – WELL INSPECTION PHOTOGRAPH LOG

NYSEG
Oneonta Former MGP Site
Oneonta, New York



Photograph: 15

Well ID:
PTMW-0202

Description:
Monitoring well with
lockable cap is in good
condition.

Photograph taken by:
RDC

Date: 6/15/2020



Photograph: 16

Well ID:
NRW-01

Description:
NAPL recovery well
with lockable cap in
good condition.

Photograph taken by:
RDC

Date: 6/15/2020

APPENDIX E – WELL INSPECTION PHOTOGRAPH LOG

NYSEG
Oneonta Former MGP Site
Oneonta, New York



Photograph: 17

Well ID:
NRW-02

Description:
NAPL recovery well
with secure cap in good
condition. New
pavement around well.

Photograph taken by:
RDC

Date: 6/15/2020



Photograph: 18

Well ID:
PMW-01

Description:
Performance
monitoring well with
lockable cap in good
condition.

Photograph taken by:
RDC

Date: 6/15/2020

APPENDIX E – WELL INSPECTION PHOTOGRAPH LOG

NYSEG
Oneonta Former MGP Site
Oneonta, New York



Photograph: 19

Well ID:
PMW-02

Description:
Performance
monitoring well with
lockable cap in good
condition.

Photograph taken by:
RDC

Date: 6/15/2020



Photograph: 20

Well ID:
PMW-03

Description:
Performance
monitoring well with
lockable cap in good
condition.

Photograph taken by:
RDC

Date: 6/15/2020

APPENDIX E – WELL INSPECTION PHOTOGRAPH LOG

NYSEG
Oneonta Former MGP Site
Oneonta, New York



Photograph: 21

Well ID:
PMW-04

Description:
Performance
monitoring well with
lockable cap in good
condition.

Photograph taken by:
RDC

Date: 6/15/2020



Photograph: 22

Well ID:
PMW-05

Description:
Performance
monitoring well with
lockable cap in good
condition.

Photograph taken by:
RDC

Date: 6/15/2020

APPENDIX E – WELL INSPECTION PHOTOGRAPH LOG

NYSEG
Oneonta Former MGP Site
Oneonta, New York



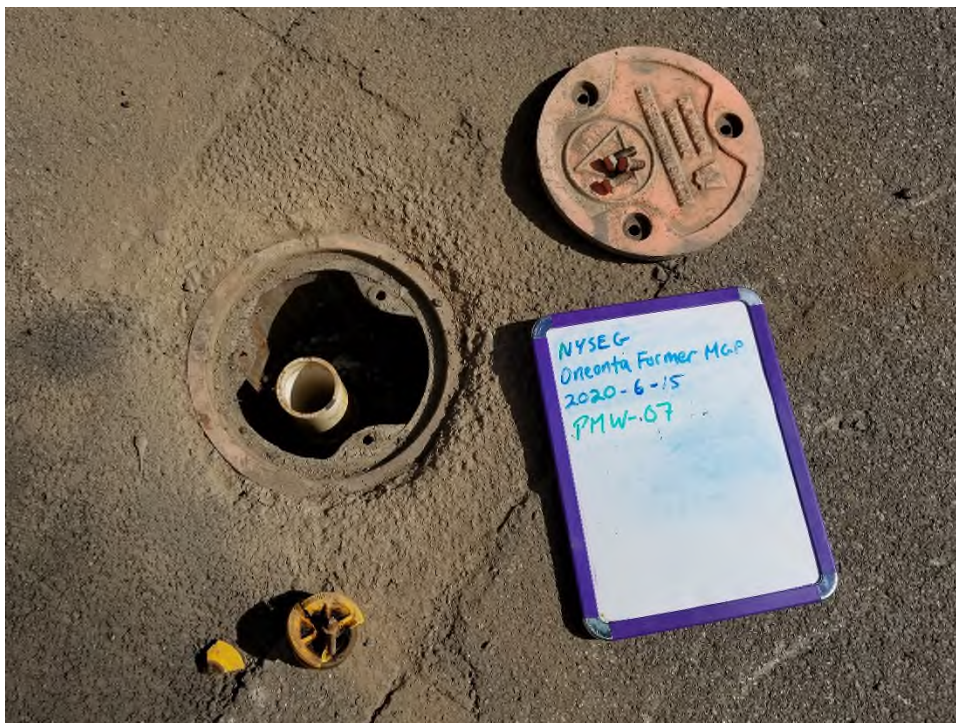
Photograph: 23

Well ID:
PMW-06

Description:
Performance
monitoring well with
lockable cap in good
condition.

Photograph taken by:
RDC

Date: 6/15/2020



Photograph: 24

Well ID:
PMW-07

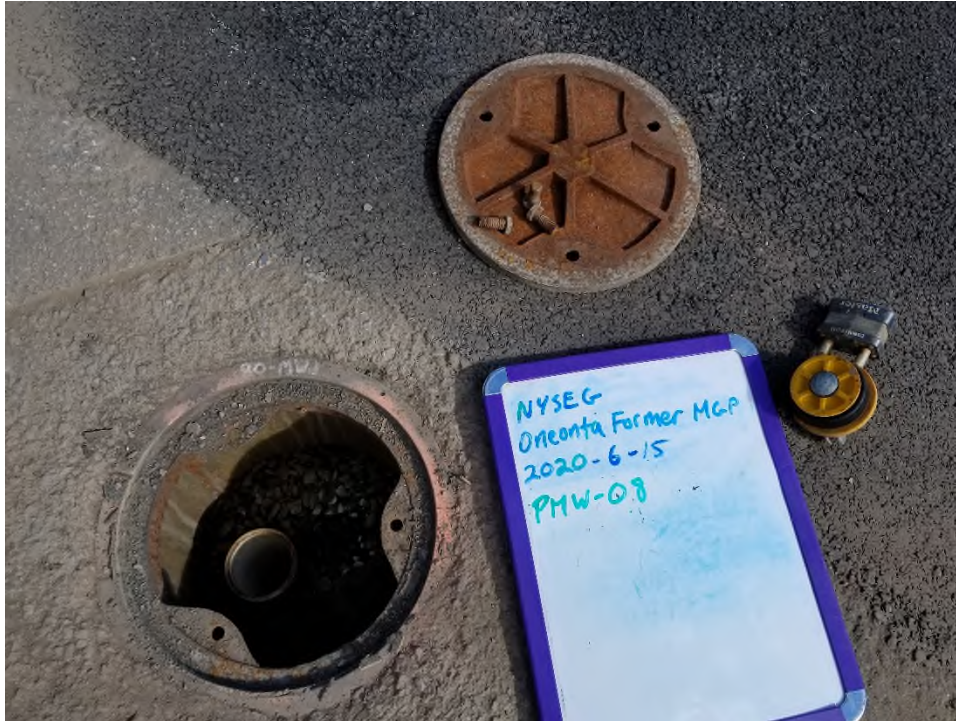
Description:
Performance
monitoring well with
secure cap in good
condition. Broken cap
shown in picture was
replaced on 6/16/20.

Photograph taken by:
RDC

Date: 6/15/2020

APPENDIX E – WELL INSPECTION PHOTOGRAPH LOG

NYSEG
Oneonta Former MGP Site
Oneonta, New York



Photograph: 25

Well ID:
PMW-08

Description:
Performance
monitoring well with
lockable cap in good
condition.

Photograph taken by:
RDC

Date: 6/15/2020



Photograph: 26

Well ID:
PMW-09

Description:
Performance
monitoring well with
lockable cap in good
condition.

Photograph taken by:
RDC

Date: 6/15/2020

APPENDIX E – WELL INSPECTION PHOTOGRAPH LOG

NYSEG
Oneonta Former MGP Site
Oneonta, New York



Photograph: 27

Well ID:
PMW-10

Description:
Performance
monitoring well with
lockable cap in good
condition.

Photograph taken by:
RDC

Date: 6/15/2020



Photograph: 28

Well ID:
PMW-11

Description:
Performance
monitoring well with
lockable cap in good
condition.

Photograph taken by:
RDC

Date: 6/15/2020

APPENDIX E – WELL INSPECTION PHOTOGRAPH LOG

NYSEG
Oneonta Former MGP Site
Oneonta, New York



Photograph: 29

Well ID:
PMW-12

Description:
Performance
monitoring well with
lockable cap in good
condition.

Photograph taken by:
RDC

Date: 6/15/2020



Photograph: 30

Well ID:
PMW-13

Description:
Performance
monitoring well with
lockable cap in good
condition.

Photograph taken by:
RDC

Date: 6/15/2020

APPENDIX E – WELL INSPECTION PHOTOGRAPH LOG

NYSEG
Oneonta Former MGP Site
Oneonta, New York



Photograph: 31

Well ID:
PMW-14

Description:
Performance
monitoring well with
lockable cap in good
condition.

Photograph taken by:
RDC

Date: 6/15/2020



Photograph: 32

Well ID:
PZ-105

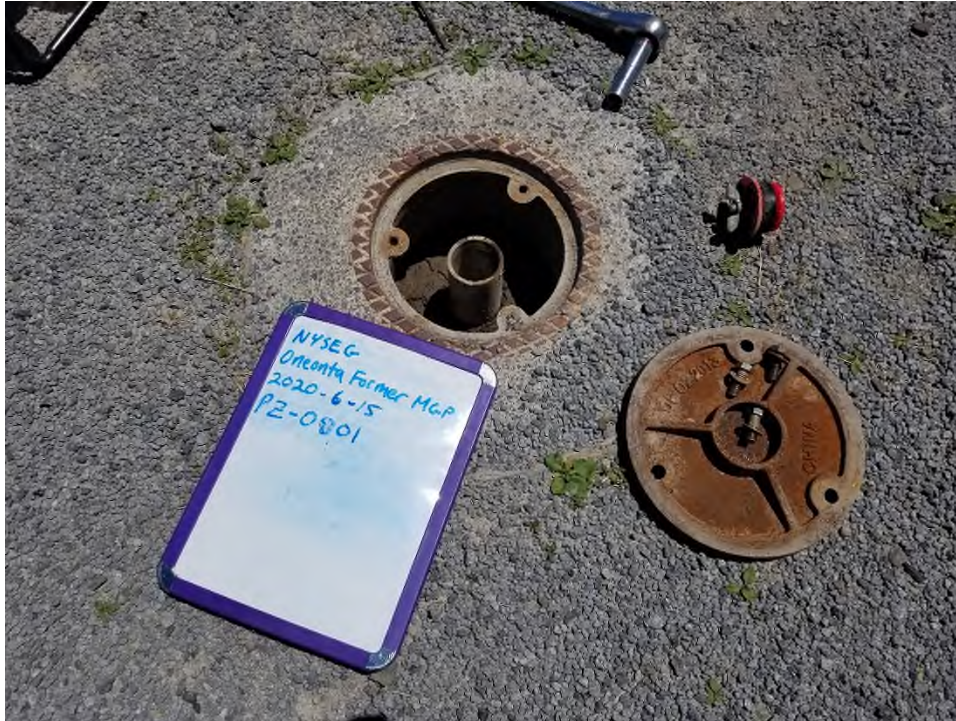
Description:
Piezometer with
lockable cap in good
condition.

Photograph taken by:
RDC

Date: 6/15/2020

APPENDIX E – WELL INSPECTION PHOTOGRAPH LOG

NYSEG
Oneonta Former MGP Site
Oneonta, New York



Photograph: 33

Well ID:

PZ-0801

Description:

Piezometer with secure cap in good condition.

Photograph taken by:

RDC

Date: 6/15/2020



Photograph: 34

Well ID:

PZ-0802

Description:

Piezometer with lockable cap is in fair condition. Concrete apron surrounding flush-mount road box is weathered and cracked, however still structurally sound.

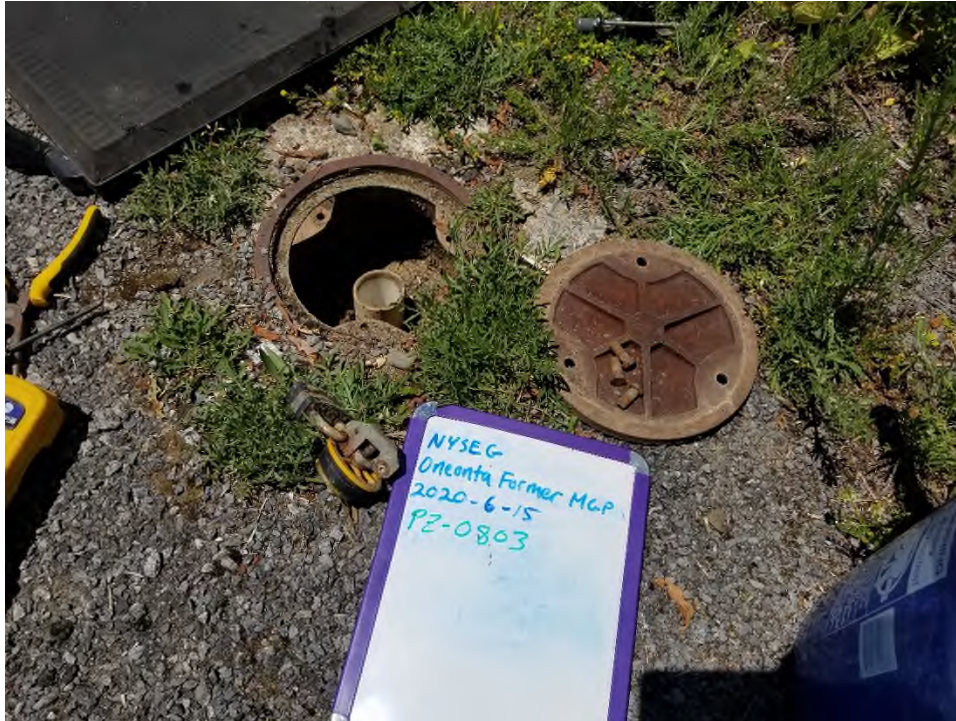
Photograph taken by:

RDC

Date: 6/15/2020

APPENDIX E – WELL INSPECTION PHOTOGRAPH LOG

NYSEG
Oneonta Former MGP Site
Oneonta, New York



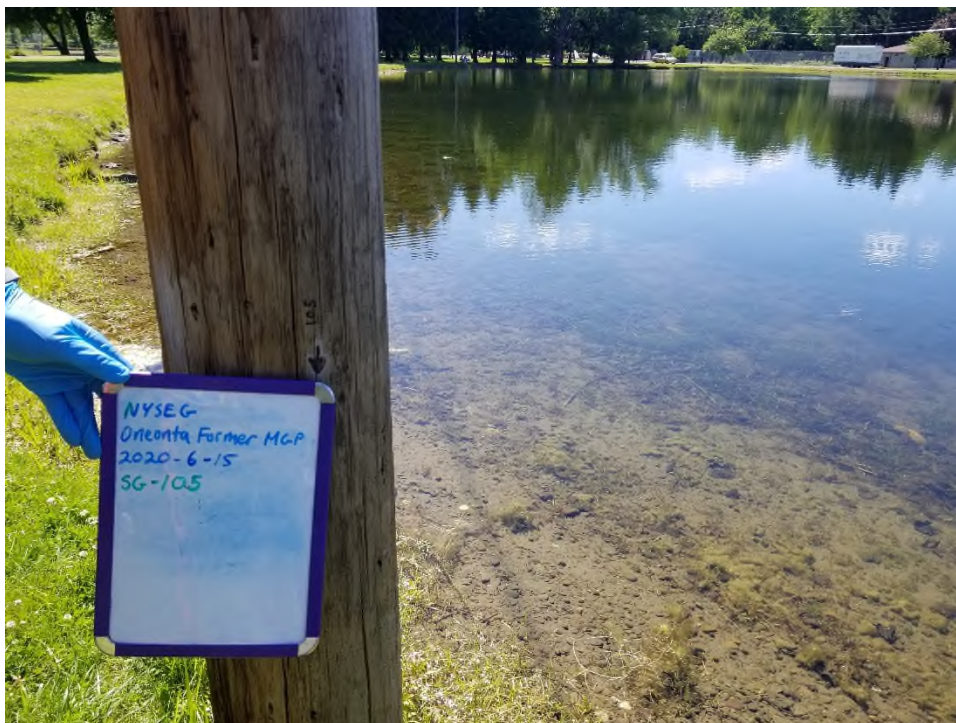
Photograph: 35

Well ID:
PZ-0803

Description:
Piezometer with lockable cap is in fair condition. Concrete apron surrounding flush-mount road box is weathered and cracked, however still structurally sound.

Photograph taken by:
RDC

Date: 6/15/2020



Photograph: 36

Staff Gauge ID:
SG-105

Description:
Staff gauge is in good condition.

Photograph taken by:
RDC

Date: 6/15/2020

APPENDIX E – WELL INSPECTION PHOTOGRAPH LOG

NYSEG
Oneonta Former MGP Site
Oneonta, New York



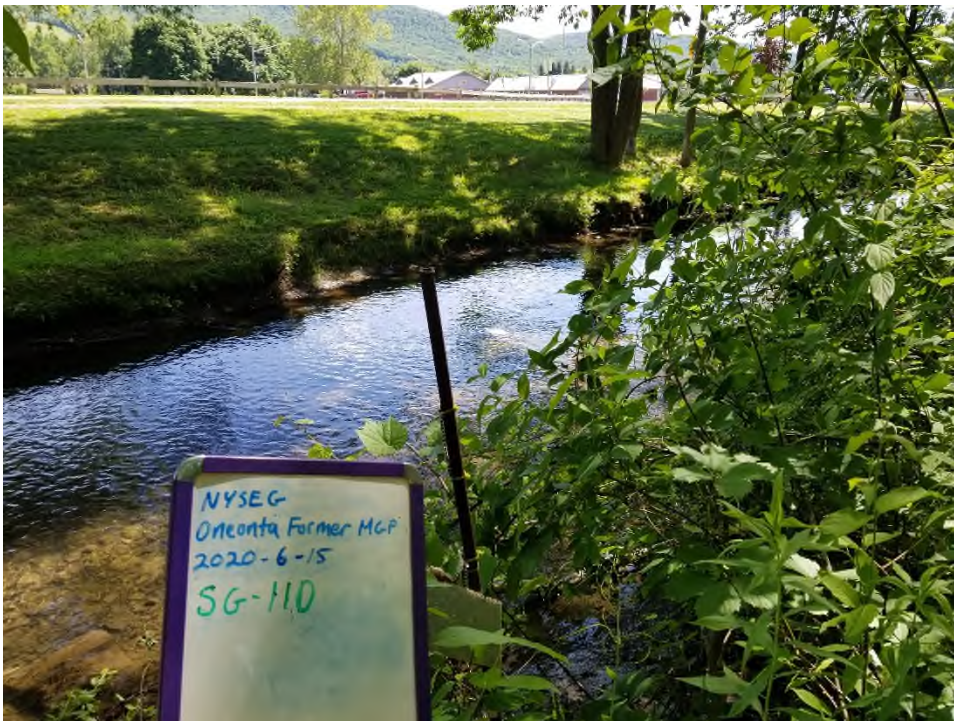
Photograph: 37

Staff Gauge ID:
SG-107

Description:
Staff gauge is in good condition. Measuring location is a hole drilled in the top of the culvert.

Photograph taken by:
RDC

Date: 6/15/2020



Photograph: 38

Staff Gauge ID:
SG-110

Description:
Staff gauge is in fair condition.

Photograph taken by:
RDC

Date: 6/15/2020

APPENDIX E – WELL INSPECTION PHOTOGRAPH LOG

NYSEG
Oneonta Former MGP Site
Oneonta, New York



Photograph: 39

Staff Gauge ID:
SG-111

Description:
Staff gauge is in good condition.

Photograph taken by:
RDC

Date: 6/15/2020



Photograph: 40

Well ID:
AW-01

Description:
Application well with lockable cap is in good condition.

Photograph taken by:
RDC

Date: 6/15/2020

APPENDIX E – WELL INSPECTION PHOTOGRAPH LOG

NYSEG
Oneonta Former MGP Site
Oneonta, New York



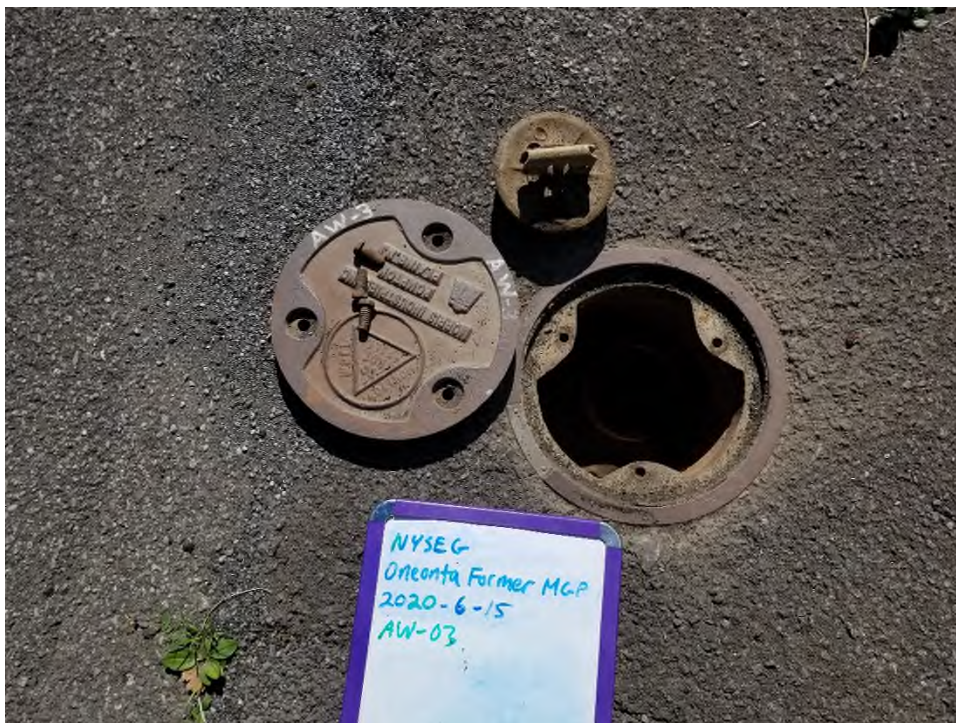
Photograph: 41

Well ID:
AW-02

Description:
Application well with
secure cap is in good
condition.

Photograph taken by:
RDC

Date: 6/15/2020



Photograph: 42

Well ID:
AW-03

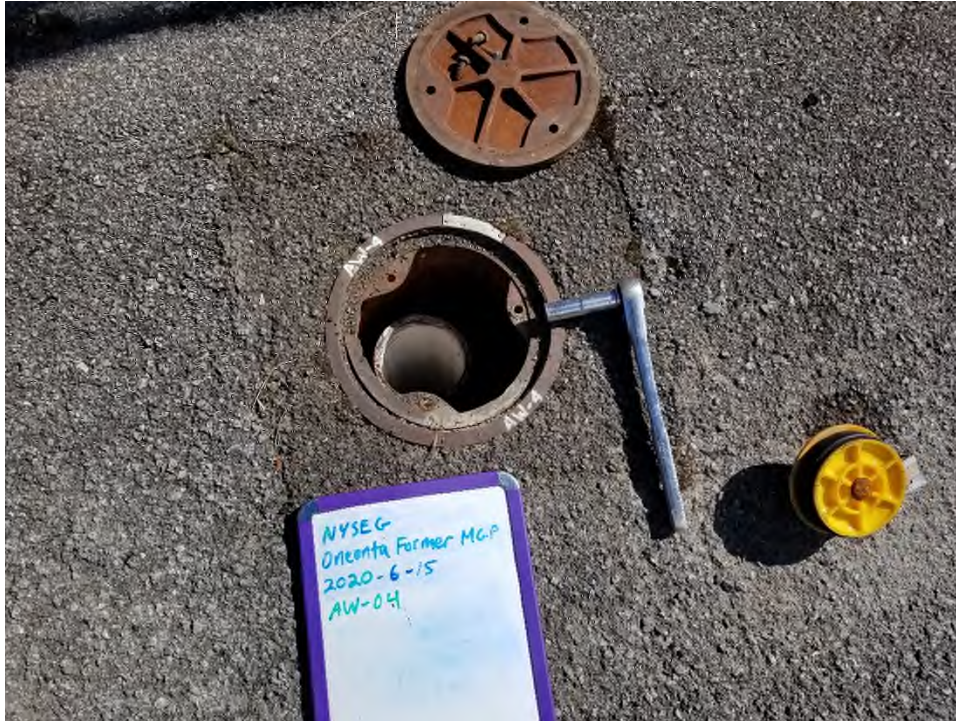
Description:
Application well with
lockable cap is in good
condition.

Photograph taken by:
RDC

Date: 6/15/2020

APPENDIX E – WELL INSPECTION PHOTOGRAPH LOG

NYSEG
Oneonta Former MGP Site
Oneonta, New York



Photograph: 43

Well ID:
AW-04

Description:
Application well with
lockable cap is in good
condition.

Photograph taken by:
RDC

Date: 6/15/2020



Photograph: 44

Well ID:
AW-05

Description:
Application well with
secure cap is in good
condition.

Photograph taken by:
RDC

Date: 6/15/2020

APPENDIX E – WELL INSPECTION PHOTOGRAPH LOG

NYSEG
Oneonta Former MGP Site
Oneonta, New York



Photograph: 45

Well ID:
AW-06

Description:
Application well with
lockable cap is in good
condition.

Photograph taken by:
RDC

Date: 6/15/2020



Photograph: 46

Well ID:
AW-07

Description:
Application well with
lockable cap is in good
condition.

Photograph taken by:
RDC

Date: 6/15/2020

APPENDIX E – WELL INSPECTION PHOTOGRAPH LOG

NYSEG
Oneonta Former MGP Site
Oneonta, New York



Photograph: 47

Well ID:
AW-08

Description:
Application well with
lockable cap is in good
condition.

Photograph taken by:
RDC

Date: 6/15/2020



Photograph: 48

Well ID:
AW-09

Description:
Application well with
lockable cap is in good
condition.

Photograph taken by:
RDC

Date: 6/15/2020

APPENDIX E – WELL INSPECTION PHOTOGRAPH LOG

NYSEG
Oneonta Former MGP Site
Oneonta, New York



Photograph: 49

Well ID:
AW-10

Description:
Application well with
lockable cap is in good
condition.

Photograph taken by:
RDC

Date: 6/15/2020



Photograph: 50

Well ID:
AW-11

Description:
Application well with
lockable cap is in good
condition.

Photograph taken by:
RDC

Date: 6/15/2020

APPENDIX E – WELL INSPECTION PHOTOGRAPH LOG

NYSEG
Oneonta Former MGP Site
Oneonta, New York



Photograph: 51

Well ID:
AW-12

Description:
Application well with
secure cap is in good
condition.

Photograph taken by:
RDC

Date: 6/15/2020



Photograph: 52

Well ID:
AW-13

Description:
Application well with
secure cap is in good
condition.

Photograph taken by:
RDC

Date: 6/15/2020

APPENDIX E – WELL INSPECTION PHOTOGRAPH LOG

NYSEG
Oneonta Former MGP Site
Oneonta, New York



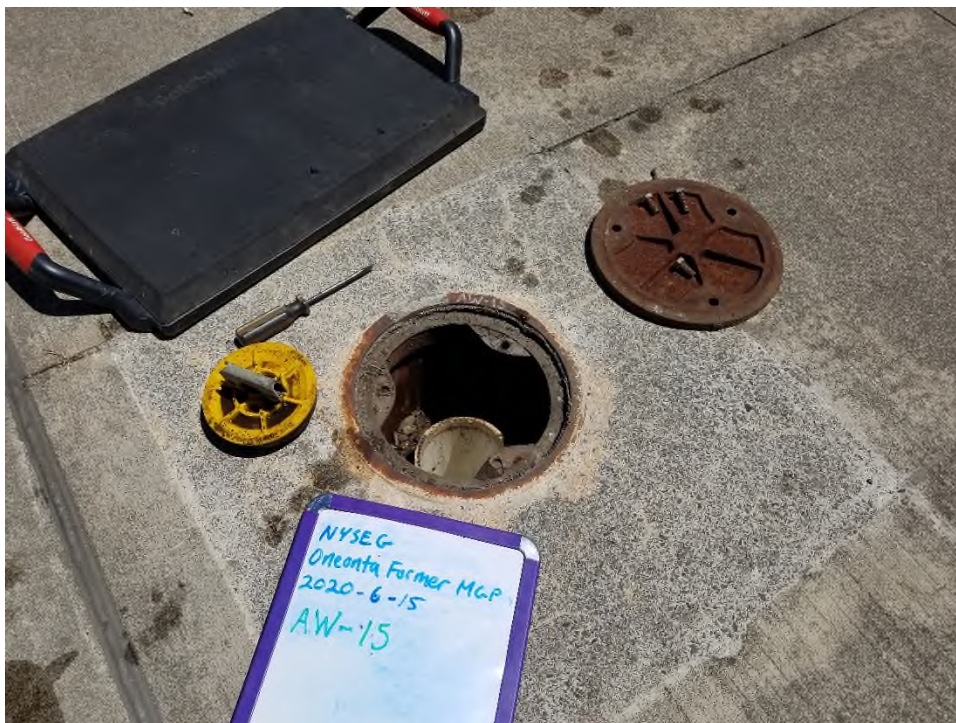
Photograph: 53

Well ID:
AW-14

Description:
Application well with
lockable cap is in good
condition.

Photograph taken by:
RDC

Date: 6/15/2020



Photograph: 54

Well ID:
AW-15

Description:
Application well with
lockable cap is in good
condition.

Photograph taken by:
RDC

Date: 6/15/2020

APPENDIX E – WELL INSPECTION PHOTOGRAPH LOG

NYSEG
Oneonta Former MGP Site
Oneonta, New York



Photograph: 55

Well ID:
AW-16

Description:
Application well with
lockable cap is in good
condition.

Photograph taken by:
RDC

Date: 6/15/2020

Appendix F

Site Inspection Photographic Logs

APPENDIX F – SITE INSPECTION PHOTOGRAPH LOG

NYSEG
Oneonta Former MGP Site
Oneonta, New York



Photograph: 1

Description:

Soil coverage for the Eastern Plant Area (EPA); cover in good condition; no repair needed.

Direction: NNW

Photograph taken by:
RDC

Date: 6/17/2020



Photograph: 2

Description:

Soil coverage for the EPA; cover in good condition; no repair needed.

Direction: NW

Photograph taken by:
RDC

Date: 6/17/2020

APPENDIX F – SITE INSPECTION PHOTOGRAPH LOG

NYSEG
Oneonta Former MGP Site
Oneonta, New York



Photograph: 3

Description:

Soil coverage for the EPA; cover in good condition; no repair needed.

Direction: W

Photograph taken by:

RDC

Date: 6/17/2020



Photograph: 4

Description:

Roadway traversing the EPA; cover in good condition; no repair needed.

Direction: S

Photograph taken by:

RDC

Date: 6/17/2020

APPENDIX F – SITE INSPECTION PHOTOGRAPH LOG

NYSEG
Oneonta Former MGP Site
Oneonta, New York



Photograph: 5

Description:

Riprap coverage for Mill Race Creek embankment in vicinity of the Western Plant Area (WPA); coverage is in good condition; no repair needed.

Direction: W

Photograph taken by:
RDC

Date: 6/17/2020



Photograph: 6

Description:

Riprap coverage for Mill Race Creek embankment from an alternate angle in vicinity of the WPA; coverage is in good condition; no repair needed.

Direction: W

Photograph taken by:
RDC

Date: 6/17/2020

APPENDIX F – SITE INSPECTION PHOTOGRAPH LOG

NYSEG
Oneonta Former MGP Site
Oneonta, New York



Photograph: 7

Description:

Parking lot covering the WPA; cover is in good condition; no repair needed.

Direction: SSE

Photograph taken by:
RDC

Date: 6/17/2020



Photograph: 8

Description:

Continuation of parking lot covering the WPA; cover is in good condition; no repair needed.

Direction: SSW

Photograph taken by:
RDC

Date: 6/17/2020

APPENDIX F – SITE INSPECTION PHOTOGRAPH LOG

NYSEG
Oneonta Former MGP Site
Oneonta, New York



Photograph: 9

Description:

Continuation of parking lot covering the WPA; cover is in good condition; no repair needed.

Direction: WSW

Photograph taken by:
RDC

Date: 6/17/2020



Photograph: 10

Description:

Continuation of parking lot covering the WPA; cover is in good condition; no repair needed.

Direction: W

Photograph taken by:
RDC

Date: 6/17/2020

APPENDIX F – SITE INSPECTION PHOTOGRAPH LOG

NYSEG
Oneonta Former MGP Site
Oneonta, New York



Photograph: 11

Description:

Riprap embankment cover for the Mill Race Creek and parking lot covering the WPA; cover is in good condition; no repair needed.

Direction: NE

Photograph taken by:
RDC

Date: 6/17/2020



Photograph: 12

Description:

Walking trail adjacent to Mill Race Creek and NYSEG storage shed; cover is in good condition; no repair needed.

Direction: SW

Photograph taken by:
RDC

Date: 6/17/2020

APPENDIX F – SITE INSPECTION PHOTOGRAPH LOG

NYSEG
Oneonta Former MGP Site
Oneonta, New York



Photograph: 13

Description:

Concrete sidewalks and ballpark fencing covering the WPA; cover is in good condition; no repair needed.

Direction: S

Photograph taken by:
RDC

Date: 6/17/2020



Photograph: 14

Description:

Parking lot, concrete sidewalk and grass area covering the WPA; cover is in good condition; no repair needed.

Direction: E

Photograph taken by:
RDC

Date: 6/17/2020

APPENDIX F – SITE INSPECTION PHOTOGRAPH LOG

NYSEG
Oneonta Former MGP Site
Oneonta, New York



Photograph: 15

Description:

Grass area and pavement covering the WPA; cover behind bleachers is in good condition; no repair needed.

Direction: E

Photograph taken by:
RDC

Date: 6/17/2020



Photograph: 16

Description:

Paved area behind bleachers and pavement directly over the permeable wall; cover is in good condition; no repair needed.

Direction: E

Photograph taken by:
RDC

Date: 6/17/2020

APPENDIX F – SITE INSPECTION PHOTOGRAPH LOG

NYSEG
Oneonta Former MGP Site
Oneonta, New York



Photograph: 17

Description:

Continuation of paved area behind bleachers and pavement directly over the permeable wall; cover is in good condition; no repair needed.

Direction: E

Photograph taken by:
RDC

Date: 6/17/2020



Photograph: 18

Description:

Concrete sidewalk and grass area covering the southeastern corner of the WPA and the permeable wall; cover is in good condition; no repair needed.

Direction: NE

Photograph taken by:
RDC

Date: 6/17/2020

Appendix G

Certification Statements

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation

625 Broadway, 11th Floor, Albany, NY 12233-7020

P: (518)402-9543 | F: (518)402-9547

www.dec.ny.gov

11/6/2020

John J. Ruspantini
NYS ELECTRIC AND GAS COMPANY
18 Link Drive
Binghamton, NY 13904
jjruspantini@nyseg.com

Re: Reminder Notice: Site Management Periodic Review Report and IC/EC Certification Submittal

Site Name: NYSEG - Oneonta MGP

Site No.: 439001

Site Address: James Georgeson Avenue
Oneonta, NY 13820

Dear John J. Ruspantini:

This letter serves as a reminder that sites in active Site Management (SM) require the submittal of a periodic progress report. This report, referred to as the Periodic Review Report (PRR), must document the implementation of, and compliance with, site-specific SM requirements. Section 6.3(b) of DER-10 *Technical Guidance for Site Investigation and Remediation* (available online at <http://www.dec.ny.gov/regulations/67386.html>) provides guidance regarding the information that must be included in the PRR. Further, if the site is comprised of multiple parcels, then you as the Certifying Party must arrange to submit one PRR for all parcels that comprise the site. The PRR must be received by the Department no later than **January 18, 2021**. Guidance on the content of a PRR is enclosed.

Site Management is defined in regulation (6 NYCRR 375-1.2(at)) and in Chapter 6 of DER-10. Depending on when the remedial program for your site was completed, SM may be governed by multiple documents (e.g., Operation, Maintenance, and Monitoring Plan; Soil Management Plan) or one comprehensive Site Management Plan.

A Site Management Plan (SMP) may contain one or all of the following elements, as applicable to the site: a plan to maintain institutional controls and/or engineering controls ("IC/EC Plan"); a plan for monitoring the performance and effectiveness of the selected remedy ("Monitoring Plan"); and/or a plan for the operation and maintenance of the selected remedy ("O&M Plan"). Additionally, the technical requirements for SM are stated in the decision document (e.g., Record of Decision) and, in some cases, the legal agreement directing the remediation of the site (e.g., order on consent, voluntary agreement, etc.).

When you submit the PRR (by the due date above), include the enclosed forms documenting that all SM requirements are being met. The Institutional Controls (ICs) portion of the form (Box 6) must be signed by you or your designated representative. The Engineering Controls (ECs) portion of the form (Box 7) must be signed by a Professional Engineer (PE). If you cannot certify that all SM requirements are being met, you must submit a Corrective Measures Work Plan that identifies the actions to be taken to restore compliance. The work plan must include a schedule to be approved by the Department. The Periodic Review process will not be considered complete until all necessary corrective measures are completed and all required controls are certified. Instructions for completing the certifications are enclosed.



Department of
Environmental
Conservation

All site-related documents and data, including the PRR, must be submitted in electronic format to the Department of Environmental Conservation. The required format for documents is an Adobe PDF file with optical character recognition and no password protection. Data must be submitted as an electronic data deliverable (EDD) according to the instructions on the following webpage:

<https://www.dec.ny.gov/chemical/62440.html>

Documents may be submitted to the project manager either through electronic mail or by using the Department's file transfer service at the following webpage:

<https://fts.dec.state.ny.us/fts/>

The Department will not approve the PRR unless all documents and data generated in support of the PRR have been submitted using the required formats and protocols.

You may contact Scott Deyette, the Project Manager, at 518-402-9794 or scott.deyette@dec.ny.gov with any questions or concerns about the site. Please notify the project manager before conducting inspections or field work. You may also write to the project manager at the following address:

New York State Department of Environmental Conservation
Division of Environmental Remediation, BURC
625 Broadway

Albany, NY 12233-7014

Enclosures

PRR General Guidance
Certification Form Instructions
Certification Forms

ec: w/ enclosures

Scott Deyette, Project Manager

Andrew Fleck, Hazardous Waste Remediation Supervisor, Region 4

Arcadis of New York, Inc. - jason.golubski@arcadis.com

The following parcel owner did not receive an ec:

City Of Oneonta - Parcel Owner

Enclosure 1

Certification Instructions

I. Verification of Site Details (Box 1 and Box 2):

Answer the three questions in the Verification of Site Details Section. The Owner and/or Qualified Environmental Professional (QEP) may include handwritten changes and/or other supporting documentation, as necessary.

II. Certification of Institutional Controls/ Engineering Controls (IC/ECs)(Boxes 3, 4, and 5)

1.1.1. Review the listed IC/ECs, confirming that all existing controls are listed, and that all existing controls are still applicable. If there is a control that is no longer applicable the Owner / Remedial Party should petition the Department separately to request approval to remove the control.

2. In Box 5, complete certifications for all Plan components, as applicable, by checking the corresponding checkbox.

3. If you cannot certify "YES" for each Control listed in Box 3 & Box 4, sign and date the form in Box 5. Attach supporting documentation that explains why the **Certification** cannot be rendered, as well as a plan of proposed corrective measures, and an associated schedule for completing the corrective measures. Note that this **Certification** form must be submitted even if an IC or EC cannot be certified; however, the certification process will not be considered complete until corrective action is completed.

If the Department concurs with the explanation, the proposed corrective measures, and the proposed schedule, a letter authorizing the implementation of those corrective measures will be issued by the Department's Project Manager. Once the corrective measures are complete, a new Periodic Review Report (with IC/EC Certification) must be submitted within 45 days to the Department. If the Department has any questions or concerns regarding the PRR and/or completion of the IC/EC Certification, the Project Manager will contact you.

III. IC/EC Certification by Signature (Box 6 and Box 7):

If you certified "YES" for each Control, please complete and sign the IC/EC Certifications page as follows:

- For the Institutional Controls on the use of the property, the certification statement in Box 6 shall be completed and may be made by the property owner or designated representative.
- For the Engineering Controls, the certification statement in Box 7 must be completed by a Professional Engineer or Qualified Environmental Professional, as noted on the form.



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



Site Details

Box 1

Site No. **439001**

Site Name **NYSEG - Oneonta MGP**

Site Address: James Georgeson Avenue Zip Code: 13820

City/Town: Oneonta

County: Otsego

Site Acreage: 2.000

Reporting Period: December 19, 2019 to December 19, 2020

YES NO

1. Is the information above correct? ☒ ☐

If NO, include handwritten above or on a separate sheet.

2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period? ☐ ☒

3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))? ☐ ☒

4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period? ☐ ☒

If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.

5. Is the site currently undergoing development? ☐ ☒

Box 2

YES NO

6. Is the current site use consistent with the use(s) listed below? ☒ ☐
Restricted-Residential, Commercial, and Industrial

7. Are all ICs in place and functioning as designed? ☒ ☐

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

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

For NYSEG

Signature of Owner, Remedial Party or Designated Representative

1-11-21

Date

SITE NO. 439001

Box 3

Description of Institutional Controls

Parcel

Owner

Institutional Control

300.10-1-34

CITY OF ONEONTA

Ground Water Use Restriction
Soil Management Plan
Landuse Restriction

Site Management Plan
Monitoring Plan
IC/EC Plan

Box 4

Description of Engineering Controls

Parcel

Engineering Control

300.10-1-34

Cover System
Subsurface Barriers
~~Vapor Mitigation~~

Periodic Review Report (PRR) Certification Statements

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

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

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

YES NO

☒

☐

2. For each Engineering control listed in Box 4, I certify by checking "YES" below that all of the following statements are true:

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

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

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

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

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

YES NO

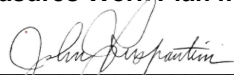
☒

☐

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

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

For NYSEG



Signature of Owner, Remedial Party or Designated Representative

1-11-21

Date

**IC CERTIFICATIONS
SITE NO. 439001**

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

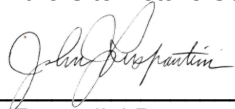
I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I John Ruspantini at 18 Link Dr Binghamton, NY 13904,
print name print business address

am certifying as Remedial Party (Owner or Remedial Party)

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

For NYSEG



1-11-21

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

Date

EC CERTIFICATIONS

Qualified Environmental Professional (QEP)

Box 7

~~-Professional Engineer Signature~~

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I John Ruspantini at 18 Link Dr Binghamton, NY 13904,
print name print business address

am certifying as a ~~Professional Engineer~~ for the NYSEG /Remedial Party
QEP (Owner or Remedial Party)

For NYSEG



Signature of ~~Professional Engineer~~, for the Owner or
Remedial Party, Rendering Certification QEP

CHMM

~~103102~~ 10302

Stamp
(Required for PE)

1-11-21

Date

Enclosure 3
Periodic Review Report (PRR) General Guidance

- I. Executive Summary: (1/2-page or less)
 - A. Provide a brief summary of site, nature and extent of contamination, and remedial history.
 - B. Effectiveness of the Remedial Program - Provide overall conclusions regarding;
 - 1. progress made during the reporting period toward meeting the remedial objectives for the site
 - 2. the ultimate ability of the remedial program to achieve the remedial objectives for the site.
 - C. Compliance
 - 1. Identify any areas of non-compliance regarding the major elements of the Site Management Plan (SMP, i.e., the Institutional/Engineering Control (IC/EC) Plan, the Monitoring Plan, and the Operation & Maintenance (O&M) Plan).
 - 2. Propose steps to be taken and a schedule to correct any areas of non-compliance.
 - D. Recommendations
 - 1. recommend whether any changes to the SMP are needed
 - 2. recommend any changes to the frequency for submittal of PRRs (increase, decrease)
 - 3. recommend whether the requirements for discontinuing site management have been met.
- II. Site Overview (one page or less)
 - A. Describe the site location, boundaries (figure), significant features, surrounding area, and the nature and extent of contamination prior to site remediation.
 - B. Describe the chronology of the main features of the remedial program for the site, the components of the selected remedy, cleanup goals, site closure criteria, and any significant changes to the selected remedy that have been made since remedy selection.
- III. Evaluate Remedy Performance, Effectiveness, and Protectiveness
Using tables, graphs, charts and bulleted text to the extent practicable, describe the effectiveness of the remedy in achieving the remedial goals for the site. Base findings, recommendations, and conclusions on objective data. Evaluations and should be presented simply and concisely.
- IV. IC/EC Plan Compliance Report (if applicable)
 - A. IC/EC Requirements and Compliance
 - 1. Describe each control, its objective, and how performance of the control is evaluated.
 - 2. Summarize the status of each goal (whether it is fully in place and its effectiveness).
 - 3. Corrective Measures: describe steps proposed to address any deficiencies in ICECs.
 - 4. Conclusions and recommendations for changes.
 - B. IC/EC Certification
 - 1. The certification must be complete (even if there are IC/EC deficiencies), and certified by the appropriate party as set forth in a Department-approved certification form(s).
- V. Monitoring Plan Compliance Report (if applicable)
 - A. Components of the Monitoring Plan (tabular presentations preferred) - Describe the requirements of the monitoring plan by media (i.e., soil, groundwater, sediment, etc.) and by any remedial technologies being used at the site.
 - B. Summary of Monitoring Completed During Reporting Period - Describe the monitoring tasks actually completed during this PRR reporting period. Tables and/or figures should be used to show all data.
 - C. Comparisons with Remedial Objectives - Compare the results of all monitoring with the remedial objectives for the site. Include trend analyses where possible.
 - D. Monitoring Deficiencies - Describe any ways in which monitoring did not fully comply with the monitoring plan.
 - E. Conclusions and Recommendations for Changes - Provide overall conclusions regarding the monitoring completed and the resulting evaluations regarding remedial effectiveness.
- VI. Operation & Maintenance (O&M) Plan Compliance Report (if applicable)
 - A. Components of O&M Plan - Describe the requirements of the O&M plan including required activities, frequencies, recordkeeping, etc.
 - B. Summary of O&M Completed During Reporting Period - Describe the O&M tasks actually completed during this PRR reporting period.
 - C. Evaluation of Remedial Systems - Based upon the results of the O&M activities completed, evaluated

the ability of each component of the remedy subject to O&M requirements to perform as designed/expected.

- D. O&M Deficiencies - Identify any deficiencies in complying with the O&M plan during this PRR reporting period.
- E. Conclusions and Recommendations for Improvements - Provide an overall conclusion regarding O&M for the site and identify any suggested improvements requiring changes in the O&M Plan.

VII. Overall PRR Conclusions and Recommendations

- A. Compliance with SMP - For each component of the SMP (i.e., IC/EC, monitoring, O&M), summarize;
 - 1. whether all requirements of each plan were met during the reporting period
 - 2. any requirements not met
 - 3. proposed plans and a schedule for coming into full compliance.
- B. Performance and Effectiveness of the Remedy - Based upon your evaluation of the components of the SMP, form conclusions about the performance of each component and the ability of the remedy to achieve the remedial objectives for the site.
- C. Future PRR Submittals
 - 1. Recommend, with supporting justification, whether the frequency of the submittal of PRRs should be changed (either increased or decreased).
 - 2. If the requirements for site closure have been achieved, contact the Departments Project Manager for the site to determine what, if any, additional documentation is needed to support a decision to discontinue site management.

VIII. Additional Guidance

Additional guidance regarding the preparation and submittal of an acceptable PRR can be obtained from the Departments Project Manager for the site.

Arcadis of New York, Inc.
100 Chestnut Street, Suite 1020
Rochester
New York 14604
Phone: 585 385 0090
Fax: 585 546 1973
www.arcadis.com