PARSONS

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MEMORANDUM

June 6, 2024

To: Michaela Cochran, New York State Department of Environmental Conservation

From: Jeffrey Poulsen/Anne Burnham, Parsons, on behalf of New York State Electric and Gas Corporation

Subject: McMaster Street Former MGP Site- Quarterly NAPL Monitoring and Annual Sampling Update

The McMaster Street Former Manufactured Gas Plant (MGP) Site (NYSDEC Site No. 7-06-010) (Site) is a 1.93-acre site in Auburn, New York (**Figure 1**) that has been remediated to commercial-use criteria in accordance with an Order on Consent (Index # DO-0002-9309) entered into by the New York State Electric and Gas Corporation (NYSEG) and the New York State Department of Environmental Conservation (NYSDEC). This memo serves as an update documenting the site activities that occurred in 2023.

1.0 Background

Following the completion of remedial activities at the Site, the Site Management Plan, Parsons 2021 (SMP) was developed to detail long-term monitoring at the Site, which began in 2021. Monitoring at the Site consists of three main components:

- Quarterly recovery of residual non-aqueous phase liquid (NAPL), or free product, to the extent practical. Three bedrock recovery wells were installed at the Site in 2021, as stipulated in the March 2009 Record of Decision (ROD) to recover residual NAPL. Additionally, two pre-existing onsite sumps will continue to be monitored for NAPL accumulation and removal as needed. NAPL removal efforts will be conducted on a quarterly basis for a minimum of two years, continuing until negligible quantities (<0.01 gallons) of NAPL are recovered for three successive collection events (quarters) for each well. Efforts started in July of 2021. Quarter two of 2023 was the two-year mark of conducting NAPL removal at the site.
- In accordance with the SMP, a network of monitoring wells is being utilized for annual groundwater monitoring at the Site. Samples are submitted to an Environmental Laboratory Accreditation Program (ELAP) certified laboratory for analysis. The Site's overburden groundwater monitoring network includes three existing monitoring wells (MW-04-06, MW-06-09, and MW-06-10) and two new monitoring wells that were installed in 2021 (MW-PAR-08, MW-PAR-09). Pre-existing monitoring well MW-06-09 is located at the southeastern border of the Site and serves as an upgradient well. The two new monitoring wells, MW-PAR-08 and MW-PAR-09, were installed along the southern bank of the Owasco Outlet during the spring of 2021. Groundwater samples are collected and analyzed for site-specific contaminants of concern (COCs), as discussed in Section 4.0. With the exception of MW-PAR-08, future groundwater sampling will be performed on an annual basis and will include analysis for site-specific COCs only. Based on results from the 2021 monitoring event, MW-PAR-08 was monitored quarterly starting in Q3 of 2022 and continued through all of 2023. The SMP does not set a duration of the annual groundwater monitoring program. Future recommendations on monitoring frequency will be developed in coordination with NYSDEC.

- A comprehensive vegetation plot analysis and invasive species survey were completed in 2022 to assess the status of overall vegetation cover and invasive species at the Site in accordance with the SMP.

2.0 Groundwater Flow Direction

2.1 Overburden Well Gauging Results – 2023

Water depths in overburden wells (PAR-08, PAR-09), or wells with their entire screen length above bedrock (MW-04-06, MW-06-09, and MW-06-10), were measured during the 2023 annual groundwater sampling event on October 16, 2023. The water depths for overburden wells are presented in **Table 1**.

2.2 Bedrock Well Gauging Results – 2023

Three of the bedrock wells, or wells that are screened partially or completely within bedrock (RW-01. RW-02 and RW-03), were gauged one month prior to and one month following the 2023 annual groundwater sampling event. Measurements were recorded on September 13, 2023 and November 30, 2023. The water depths for bedrock wells are presented in **Table 1**.

2.3 Hydraulic Gradient

Overburden groundwater at the Site is expected to flow in a northerly to northwesterly direction and likely discharges into the Owasco Outlet (Arcadis, 2008)[1]. The presumed flow direction of overburden groundwater is shown on **Figure 2a**.

Bedrock groundwater flow at the Site likely occurs through a combination of interconnected fractures and bedding planes. The Site Remedial Investigation (RI) Report (Arcadis, 2008) indicates that "groundwater movement is likely to be more complex and interpretations of flow in general will be less certain, than those made for the overburden." However, the RI Report also states that "regional flow in the shallow bedrock unit is interpreted to be northward, toward the Outlet." In consideration of the information presented in the RI Report, and since the new recovery wells installed in the shallow bedrock unit are closely spaced and linearly oriented, no potentiometric map was generated for bedrock at the Site. The presumed groundwater flow direction in shallow bedrock is presented on **Figure 2b**.

3.0 Groundwater Sampling

The 2023 annual groundwater sampling event and the quarter three sampling for MW-PAR-08 was completed on October 16, 2023. Groundwater samples collected during 2023 annual monitoring were analyzed for VOCs, specifically benzene, toluene, ethylbenzene, and xylenes (BTEX), and total polycyclic aromatic hydrocarbons

[1] Arcadis, 2008. *Remedial Investigation Report*. McMaster Street Former Manufactured Gas Plan Site, Prepared for New York State Electric & Gas Corporation.

(PAHs) as specified in the SMP. Quarterly samples were collected from MW-PAR-08 and analyzed for the same parameters specified above.

3.1 Groundwater Sampling Methods and Techniques

Groundwater samples were collected from MW-04-06, MW-06-09, MW-06-10, MW-PAR-08, and MW-PAR-09 during the annual monitoring event in October 2023. Additionally, a sample was collected at MW-PAR-08 each quarter in 2023 as recommended in the 2021 annual report.

Groundwater samples were collected using low-flow/low-stress techniques. The groundwater in each monitoring well was purged using a peristaltic pump and dedicated high-density polyethylene (HDPE) sample tubing. Water quality parameters were measured in 5-minute increments until the following stabilization criteria were met for three successive readings:

- Temperature ± 1°C
- Specific conductance ± 3%
- pH ± 0.1 standard units
- Dissolved oxygen ± 10%
- Turbidity ± 10%, or <10 nephelometric turbidity units (NTUs)

Water quality parameter measurements and field observations during sampling were recorded on groundwater sampling forms, which are provided in **Appendix A**.

Groundwater samples were collected directly from dedicated sample tubing into laboratory-supplied sample bottles. For quality assurance/quality control (QA/QC) purposes, a field blank, a trip blank, a field duplicate sample, and a matrix spike/matrix spike duplicate pair sample were collected. The samples were submitted to Eurofins Test America Amherst (NELAP No. 10026) for the following analyses:

- VOCs via method SW8260C
- PAHs via method 8270D

3.2 Groundwater Analytical Results – 2023

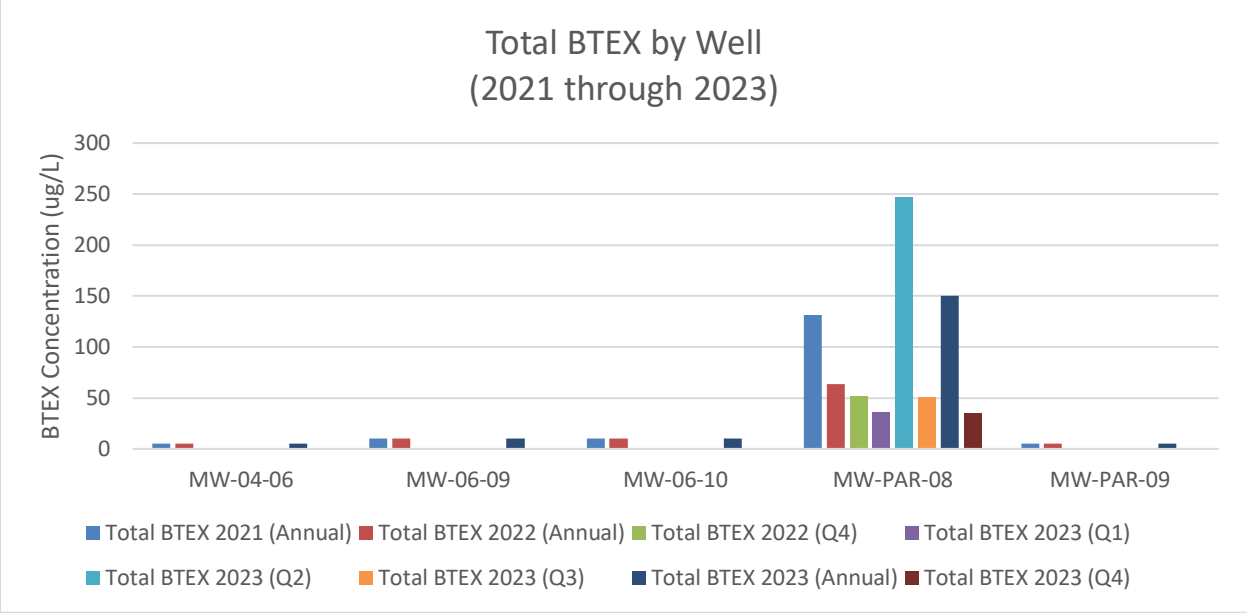
Groundwater samples were collected from MW-04-06, MW-06-09, MW-06-10, MW-PAR-08, and MW-PAR-09. The laboratory analytical results are presented in **Table 2** and **Figure 3**. VOC and semivolatile organic compound (SVOC) concentrations were compared to NYSDEC Class GA Ambient Water Quality Standards (AWQS), which are listed in the Division of Water Technical and Operational Guidance Series (1.1.1). The AWQS are referred to as "criteria" in the following paragraphs.

Groundwater analytical results for target VOCs exceeded criteria in MW-PAR-08. The highest detection for a single analyte was 191 micrograms per liter (ug/L) of benzene in MW-PAR-08. VOCs concentrations in MW-04-06, MW-06-09, MW-06-10, and MW-PAR-09 were below detection limits.

The concentrations of BTEX were summed for each of the groundwater samples collected. The highest concentration of BTEX was 246 ug/L in MW-PAR-08 (May 2023).

Groundwater analytical results for target PAHs exceeded criteria in MW-PAR-08. The highest detection for a single analyte was 45 ug/L of Naphthalene in MW-PAR-08.

Sites COCs were observed to exceed criteria in analytical results from MW-PAR-08. Concentrations appear to vary each quarter since the initial groundwater sampling event in 2021, as shown in the bar chart below.



3.3 Quality Control and Data Validation

Data validation was performed on the groundwater samples referenced above in accordance with the analytical methodologies and USEPA Standard Operating Procedures (SOPs). All data were considered usable following data validation.

Validated analytical results from QA/QC samples are included in **Table 2**. A Data Usability and Summary Report (DUSR) has been prepared for this Site and is included as **Appendix B**. Individual laboratory reports are included in **Appendix C.**

4.0 NAPL Removal

Absorbent socks are being used to recover NAPL within all recovery wells and the two collection sumps that are part of the collection trench[1] at the Site. NAPL accumulation is measured using an electronic oil-water interface probe (EIP), and absorbent socks are visually inspected for indications of free product during sock removal and replacement. The amount of NAPL accumulating within each recovery well and the sumps appear to be minimal since no smearing or staining has been observed on the absorbent socks during replacement events. This is

[1] A NAPL collection trench was installed on the south bank of the Owasco Outlet and within the outlet at the interface where excavation was completed to competent bedrock.

consistent with observations during well installation, with no evidence of NAPL observed during bedrock core evaluation.

Absorbent socks were inspected and replaced in March 2023, May 2023, September 2023, and November 2023. The absorbent socks used in 2023 were 1.5 inches in diameter and 2 feet in length. These socks allow for effective deployment and recovery and are sufficient for smaller quantities of NAPL that could be present in the wells at the site. No NAPL has been observed in any of the recovery wells at the site during or after installation. RW-01, RW-02, and RW-03 all have been gauged many times since installation and have had multiple sock change outs. No evidence of NAPL has been observed on any of the socks or measured with an EIP. Sock weight has not been observed to increase (TABLE 1). Evidence of hydrocarbons has been observed both visually and by odor in recovery wells onsite.

NAPL accumulation in each recovery well will continue to be monitored periodically via gauging with an EIP. Should measurable NAPL accumulation appear in any of the recovery wells during sock change outs or measured with an EIP, alternative NAPL removal methods will be implemented as necessary.

5.0 Monitoring and Maintenance

5.1 Vegetation Monitoring and Invasive Species Treatment

Monitoring activities performed included a comprehensive vegetation plot analysis and invasive species assessment, which indicated performance goals for perennial vegetative cover are being met. No vegetation maintenance activities were completed in 2023. Specific efforts that were completed in 2023 include the summarized activities below and are represented in a photographic log provided in **Appendix D.**

- September 12, 2023: A comprehensive vegetation plot analysis and invasive species assessment was performed.

The fourth year of comprehensive vegetation plot analysis was completed on September 12, 2023 to determine whether seeded and planted areas of the Site are on track to meet performance goals. Five 1-square-meter (m^2) plots were selected across the Site to represent the plant community as accurately as possible (**Figure 4**). Regular mowing has occurred over plots VEG-01, VEG-02, and VEG-03, which has reduced native species diversity, favoring turf grasses (*Poa* sp.) and low weeds (English plantain [*Plantago lanceolata*] and black medic [*Medicago lupulina*]). Plots VEG-04 and VEG-05 contained a higher proportion of native species including flat-topped goldenrod (*Euthamia graminifolia*), fowl manna grass (*Glyceria striata*), and staghorn sumac (*Rhus typhina*). Overall percent cover of seeded areas was 100 percent, exceeding the performance goal of 85 percent cover.

Trees and shrubs that were planted in 2018 were also inventoried to determine survival rates. Overall, 33 percent of planted shrubs were found surviving on Site. Based on Site conditions and typical outcomes for small potted woody plantings, this rate of survival is consistent with expectations. Additionally, mowing activities have reduced survival among planted shrubs in the mowed areas. Red chokeberry (*Aronia arbutifolia*) had the highest rate of survival at 47 percent and speckled alder (*Alnus incana* ssp. *rugosa*) had the lowest rate of survival at zero percent. Overall, 10 percent of planted trees were found surviving on Site, consistent with the 2022 inventory. Black willow (*Salix nigra*) and silver maple (*Acer saccharinum*) had the highest rate of survival at 20 percent and cottonwood (*Populus deltoides*) and red maple (*Acer rubrum*) had the lowest rate of survival at zero percent.

An invasive species assessment was completed concurrently with the comprehensive vegetation plot analysis on September 12, 2023. The isolated patches of Japanese knotweed (*Reynoutria japonica*) that were treated in 2022 were reduced to a few individuals in 2023, showing that invasive species control efforts have been effective in reducing invasive species on the Site (**Figure 4**). A focused invasive species treatment will be performed in 2024 to address the remaining Japanese knotweed on Site. In addition, the annual vegetation survey results show that the ecological buffer zone is exceeding the vegetation performance goal of 85 percent cover. In accordance with the SMP, the annual comprehensive vegetation plot analysis and invasive species survey will be conducted annually through 2024.

5.2 Erosion Inspection

In accordance with the SMP, a sitewide inspection was completed on September 12, 2023, to assess the general conditions of the Site, the condition and effectiveness of the engineering controls, and compliance with the institutional controls. The Site was observed to be in good condition, with no bare areas or erosion. No maintenance or follow up actions are recommended. The inspection form is included as **Appendix E** of this document.

6.0 Recommendations

In accordance with the SMP (Section 4.4) annual vegetative reviews are required beginning in 2021 and continuing to 2024. The review completed in 2023 showed that the overall percent cover of seeded areas was 100 percent, exceeding the performance goal of 85 percent cover, a final review will be scheduled to take place in 2024 to verify that conditions have been met.

In accordance with then SMP (Section 4.5), Quarterly collection of NAPL is recommended at the Site for two years. Following the initial two years of NAPL collection (August 2021 through September 2023) the frequency of monitoring will be evaluated in conjunction with NYSDEC to increase, decrease, or remain the same depending on the amount of NAPL being collected. No evidence of NAPL has been observed on any of the socks or measured with an EIP. The recommendation is that the NAPL collection socks remain in the wells but monitoring and collection be changed to a semiannual frequency.

Sites COCs were observed to exceed criteria in analytical results from MW-PAR-08. Concentrations appear to vary each quarter since the initial groundwater sampling event in 2021. Parsons recommends continuing sampling MW-PAR-08 on a quarterly basis to evaluate the nature of BTEX concentrations in the well. Quarterly monitoring will continue in 2024. Groundwater sampling of the remaining monitoring wells will remain consistent with the SMP and continue on an annual basis. The next annual groundwater sampling event is expected to occur late in the third quarter or early in the fourth quarter of 2024.

7.0 References

Parsons 2021. Site Management Plan, McMaster Street Former Manufactured Gas Plant Site NYSDEC No. 7-06-010, March.

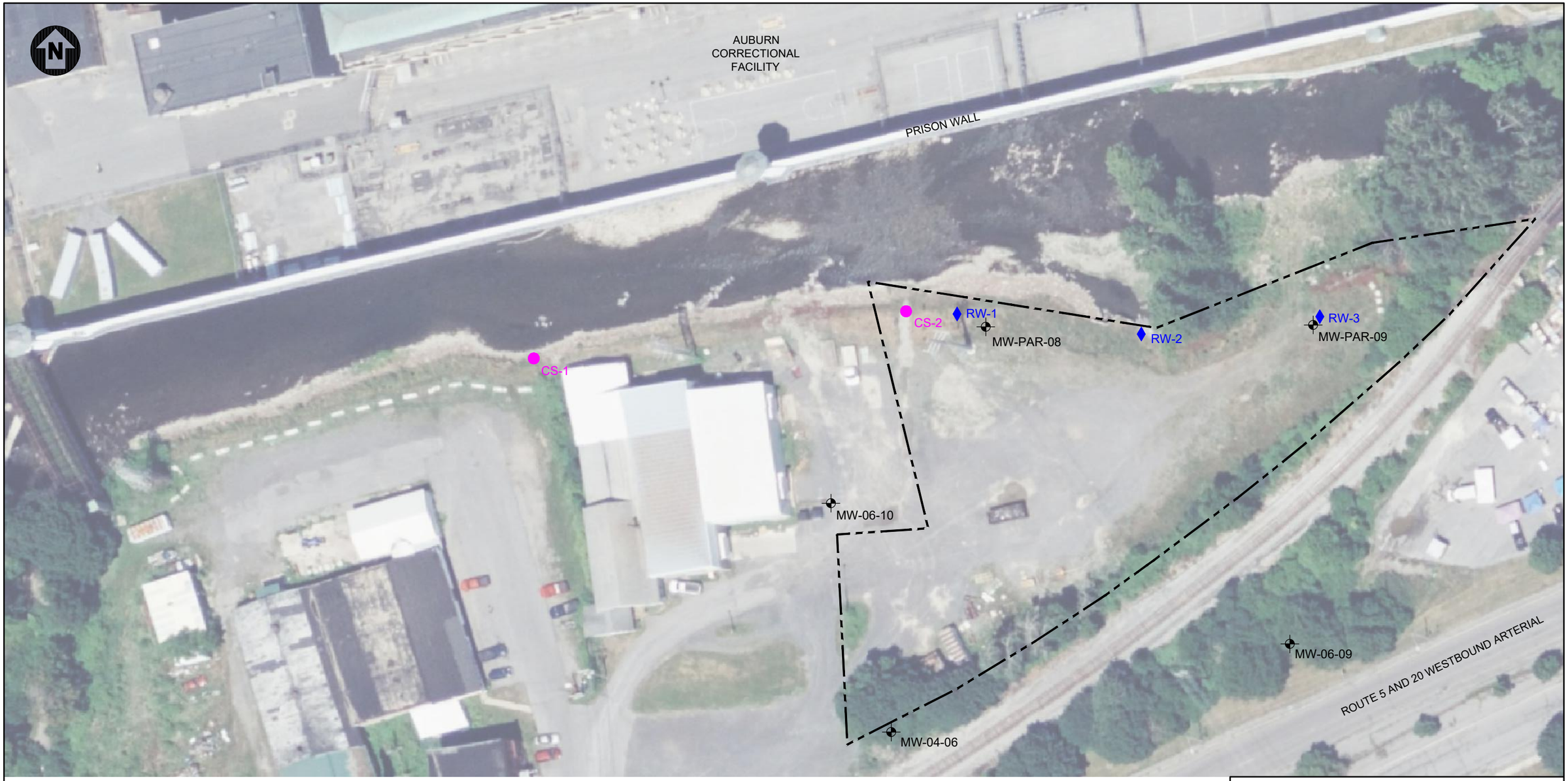
Encl: Figure 1 – Site Plan
Figure 2a – Groundwater Flow Direction (Overburden) September 2023
Figure 2b – Groundwater Flow Direction (Bedrock)
Figure 3 – Groundwater Sampling Results
Figure 4 – Vegetation Plots and Invasive Species Areas

Table 1 – Water Level Gauging Data (2023)
Table 2 – Groundwater Analytical Results (2023)

Appendix A – Low Flow Groundwater Sampling Logs
Appendix B – Data Usability Summary Reports
Appendix C – Eurofins TestAmerica Level 2 Laboratory Analytical Reports
Appendix D –2023 Monitoring and Maintenance Summary Photographic Log
Appendix E –Site Management Form

cc:
Ray D'Hollander (Parsons)
Zack Cornish (Parsons)

Figures



LEGEND:

NYSEG PROPERTY LINE (NOTE 1)	
MW-04-06	OVERBURDEN MONITORING WELL
CS-1	NAPL COLLECTION SUMP
RW-2	NAPL RECOVERY WELL

NOTES:

1. NO PARCEL BOUNDARY SURVEY WAS LOCATED DURING PREPARATION OF THIS DOCUMENT, THE LINE SHOWN IS ESTIMATED FOR ILLUSTRATION ONLY.

60 30 0 60 120

SCALE: 1"=60'

FIGURE 1

2023-2024 ANNUAL REPORT
NYSEG MCMASTER STREET FORMER MGP SITE
(SITE NO. 706010)
AUBURN, NEW YORK

SITE PLAN

PARSONS
301 Plainfield Rd, Ste 350, Syracuse, NY, Ph: 315-451-9560

FILE NAME: P:\IBERDROLA_AVANGRID\452562 & 452563 AUBURN CLARK & MCMASTER STREETS\08 TECHNICAL\CAD\MCMASTER ST\ANNUAL REPORT FIGURES\FIGURE 1 SITE PLAN.DWG
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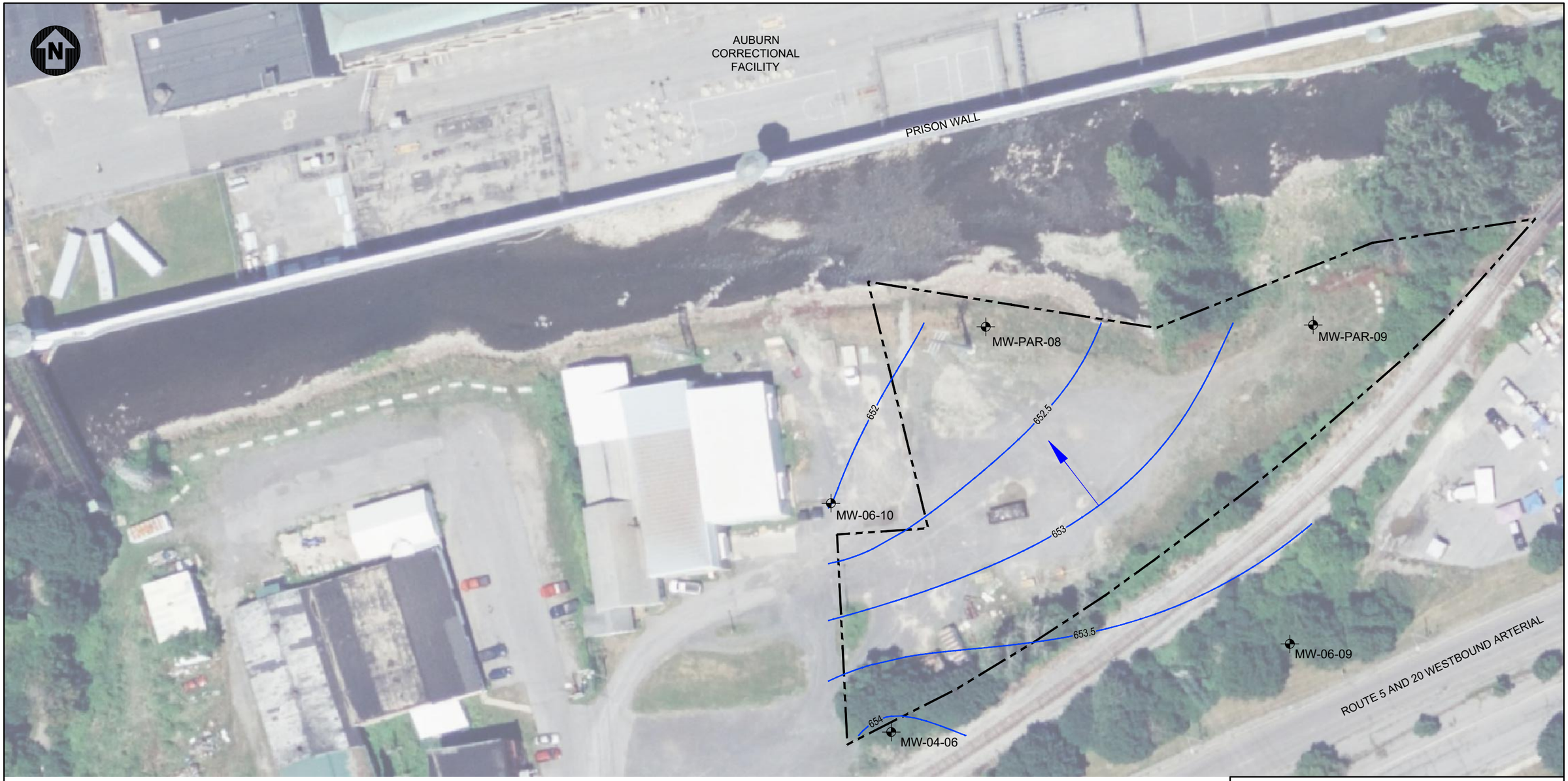

LEGEND:

- NYSEG PROPERTY LINE (FIGURE 1 NOTE 1)
- OVERBURDEN GROUNDWATER CONTOUR INTERVAL (0.5 FEET)
- MW-04-06 — OVERBURDEN MONITORING WELL
- GROUNDWATER FLOW DIRECTION (OVERBURDEN)

NOTES:

1. THE REFERENCE ELEVATION FOR MW-06-10 WAS ESTIMATED FROM A DIGITAL ELEVATION MODEL FROM CORNELL UNIVERSITY OF GEOSPATIAL INFORMATION RESPOSITORY.

60 30 0 60 120

SCALE: 1"=60'

FIGURE 2A

2023-2024 ANNUAL REPORT
NYSEG MCMASTER STREET FORMER MGP SITE
(SITE NO. 706010)
AUBURN, NEW YORK

GROUNDWATER FLOW DIRECTION
(OVERBURDEN) SEPTEMBER 2023

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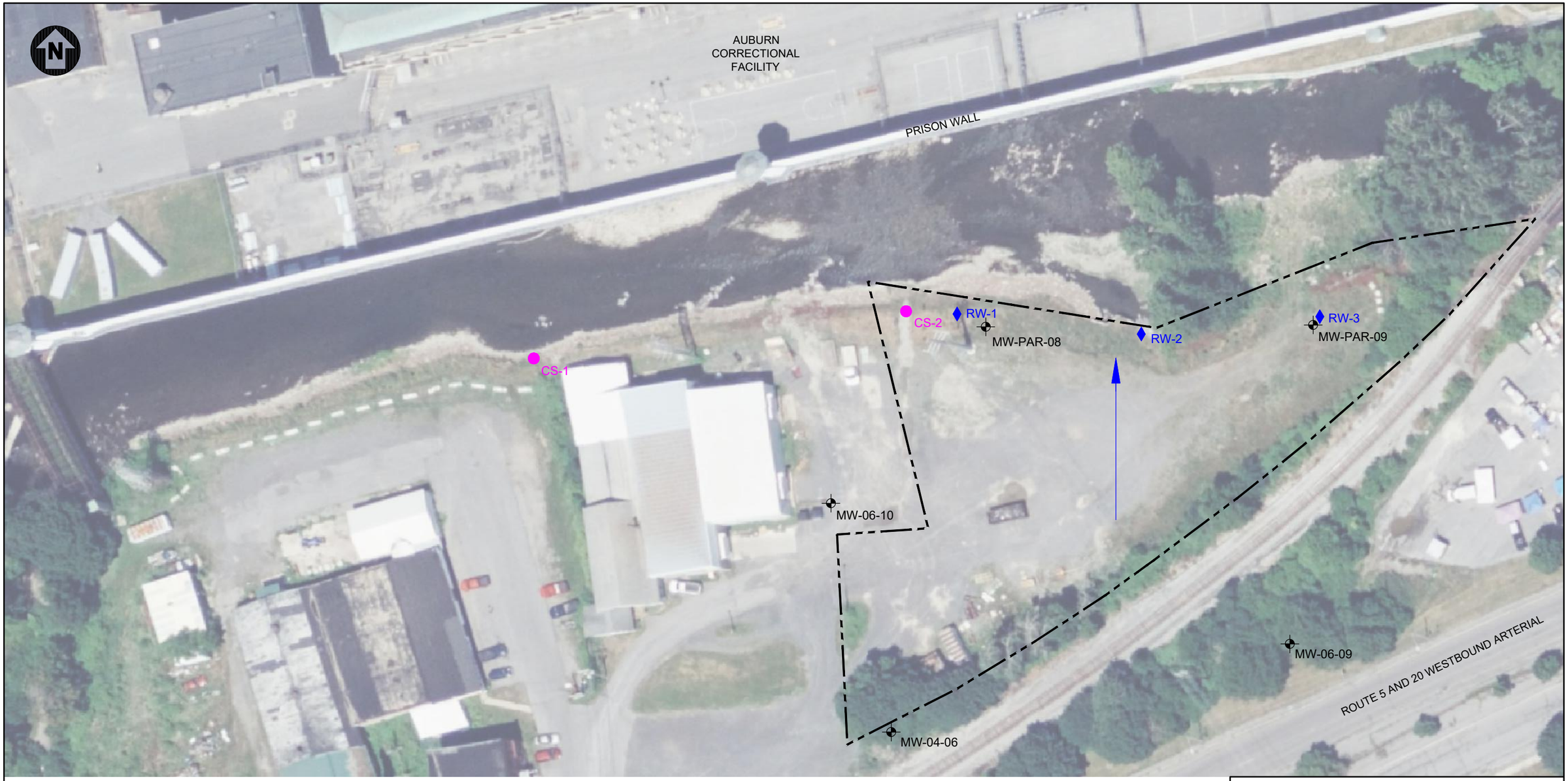

LEGEND:

	NYSEG PROPERTY LINE (FIGURE 1, NOTE 1)
MW-04-06	OVERBURDEN MONITORING WELL
CS-1	NAPL COLLECTION SUMP
RW-2	NAPL RECOVERY WELL
	PRESUMED GROUNDWATER FLOW DIRECTION (BEDROCK)

60 30 0 60 120

SCALE: 1"=60'

FIGURE 2B

2023-2024 ANNUAL REPORT
NYSEG MCMASTER STREET FORMER MGP SITE
(SITE NO. 706010)
AUBURN, NEW YORK

GROUNDWATER FLOW DIRECTION (BEDROCK)

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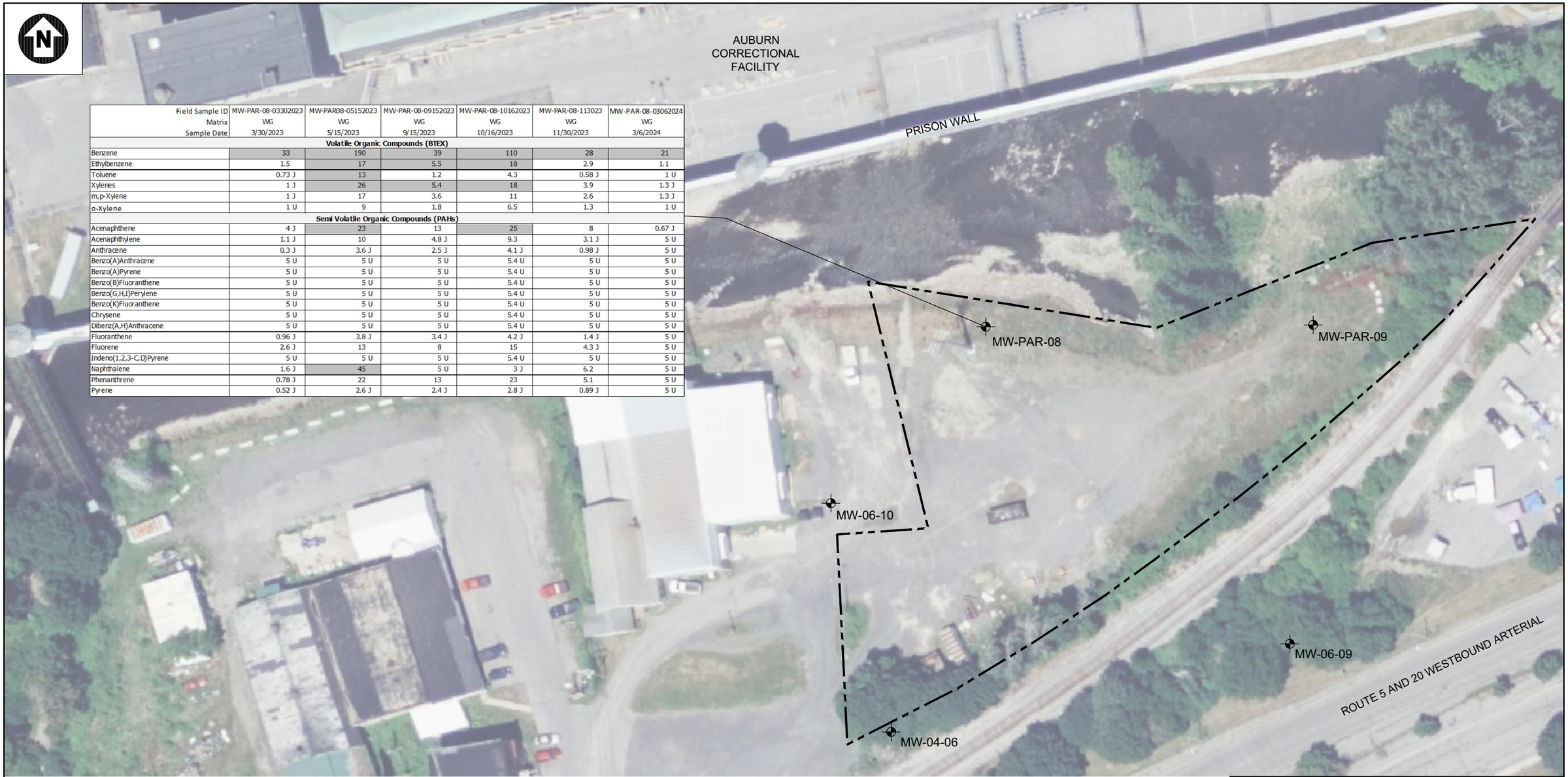
PLOT DATE: 6/3/2024 12:46 PM PLOTTED BY: NASSIMOS, JEFFREY [US-US]

Field Sample ID	MW-PAR-08-03302023	MW-PAR08-05152023	MW-PAR-08-09152023	MW-PAR-08-10162023	MW-PAR-08-113023	MW-PAR-08-03062024
Matrix	WG	WG	WG	WG	WG	WG
Sample Date	3/30/2023	5/15/2023	9/15/2023	10/16/2023	11/30/2023	3/6/2024
Volatile Organic Compounds (BTEX)						
Benzene	33	190	39	110	28	21
Ethylbenzene	1.5	17	5.5	18	2.9	1.1
Toluene	0.73 J	13	1.2	4.3	0.58 J	1 U
Xylenes	1 J	26	5.4	18	3.9	1.3 J
m,p-Xylene	1 J	17	3.6	11	2.6	1.3 J
o-Xylene	1 U	9	1.8	6.5	1.3	1 U
Semi Volatile Organic Compounds (PAHs)						
Acenaphthene	4 J	23	13	25	8	0.67 J
Acenaphthylene	1.1 J	10	4.8 J	9.3	3.1 J	5 U
Anthracene	0.3 J	3.6 J	2.5 J	4.1 J	0.98 J	5 U
Benzo(A)Anthracene	5 U	5 U	5 U	5.4 U	5 U	5 U
Benzo(A)Pyrene	5 U	5 U	5 U	5.4 U	5 U	5 U
Benzo(B)Fluoranthene	5 U	5 U	5 U	5.4 U	5 U	5 U
Benzo(G,H,I)Perylene	5 U	5 U	5 U	5.4 U	5 U	5 U
Benzo(K)Fluoranthene	5 U	5 U	5 U	5.4 U	5 U	5 U
Chrysene	5 U	5 U	5 U	5.4 U	5 U	5 U
Dibenz(A,H)Anthracene	5 U	5 U	5 U	5.4 U	5 U	5 U
Fluoranthene	0.96 J	3.8 J	3.4 J	4.2 J	1.4 J	5 U
Fluorene	2.6 J	13	8	15	4.3 J	5 U
Indeno(1,2,3-C,D)Pyrene	5 U	5 U	5 U	5.4 U	5 U	5 U
Naphthalene	1.6 J	45	5 U	3 J	6.2	5 U
Phenanthrene	0.78 J	22	13	23	5.1	5 U
Pyrene	0.52 J	2.6 J	2.4 J	2.8 J	0.89 J	5 U



LEGEND:

NYSEG PROPERTY LINE (FIGURE 1, NOTE 1)

OVERBURDEN MONITORING WELL

NOTES:

1. VALUES SHOWN IN ug/L.
2. TABLE QUALIFIERS:
   - 2.A. U: COMPOUNDS NOT DETECTED ABOVE THE REPORTING LIMIT
   - 2.B. J: ESTIMATED VALUE
3. SHADED VALUES INDICATE COMPOUNDS WITH VALUES EXCEEDING THE NYS CLASS GA STANDARDS CRITERIA.
4. ONLY RESULTS FOR MW-PAR-08 ARE SHOWN FOR THE REPORTING PERIOD. NO COMPOUNDS EXCEEDING THE NYS CLASS GA STANDARDS CRITERIA WERE DETECTED IN MW-04-06, MW-06-09, MW-06-10 OR MW-PAR-09 DURING THE REPORTING PERIOD.

60 30 0 60 120

SCALE: 1"=60'

FIGURE 3

2023-2024 ANNUAL REPORT
NYSEG MCMASTER STREET FORMER MGP SITE
(SITE NO. 706010)
AUBURN, NEW YORK

GROUNDWATER SAMPLING RESULTS

PARSONS
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FILE NAME: P:\IBERDROLA_AVANGRID\452562 & 452563 AUBURN CLARK & MCMASTER STREETS\08 TECHNICAL\CAD\MCMASTER ST\ANNUAL REPORT FIGURES\FIGURE 3 GROUNDWATER SAMPLING RESULTS.DWG
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LEGEND:

- EDGE OF WATER
- EXISTING TOPOGRAPHIC CONTOUR (NOTE 1)
- NYSEG PROPERTY LINE (FIGURE 1, NOTE 1)
- AREA OF INVASIVE SPECIES MANAGEMENT
- DOCUMENTED INVASIVE SPECIES
- BANK STONE
- BANK TOE PROTECTION
- ECOLOGICAL BUFFER SEEDING
- BOULDER CLUSTER
- VEG-01 VEGETATION PLOT

NOTES:

1. THE SURFACE SHOWN PROVIDED BY THEW ASSOCIATES, PHASE IV FINISH GRADE PROVIDED TO PARSONS IN FEBRUARY 2019.

60 30 0 60 120

SCALE: 1"=60'

FIGURE 4

2023-2024 ANNUAL REPORT
NYSEG MCMASTER STREET FORMER MGP SITE
(SITE NO. 706010)
AUBURN, NEW YORK

VEGETATION PLOTS AND INVASIVE SPECIES AREAS

PARSONS
301 Plainfield Rd, Ste 350, Syracuse, NY, Ph: 315-451-9560

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Tables

TABLE 1

PARSONS

McMASTER STREET
WATER LEVEL GAUGING DATA
2023

Well ID	TOC Elevation (ft)	Screened Interval (feet bgs)	Sump Interval (feet bgs)	Hydrologic Unit Code [3]	Water Depth (ft btoc) March 2023	Product Thickness (ft) March 2023	Water Depth (ft btoc) May 2023	Product Thickness (ft) May 2023	Water Depth (ft btoc) September 2023	Product Thickness (ft) September 2023
RW-01	658.81 [1]	9.8 - 19.8	19.8 - 25.1	BR	5.53	-	7.24	-	6.30	-
RW-02	659.59 [1]	6.9 - 16.9	16.9 - 22.3	BR	5.28	-	7.00	-	7.50	-
RW-03	663.4 [1]	8.1 - 18.1	18.1 - 23.2	BR	8.37	-	9.28	-	10.70	-
MW-PAR-08	658.53 [1]	6.5 - 11.5	NA	OB	5.53	NM*	6.42	NM*	5.62	NM*
MW-PAR-09	663.22 [1]	6.0 - 16.0	NA	OB	NM*	NM*	NM*	NM*	NM*	NM*
MW-04-06	668.07 [2]	4.9 - 14.9	NA	OB	NM*	NM*	NM*	NM*	NM*	NM*
MW-06-09	662.34 [2]	5.2 - 15.2	NA	OB	NM*	NM*	NM*	NM*	NM*	NM*
MW-06-10	657.84 [2]	3.0 - 8.0	NA	OB	NM*	NM*	NM*	NM*	NM*	NM*

Notes:
1: Top of Casing (TOC) elevation was surveyed using the North American Vertical Datum of 1988 (NAVD88)
2: Top of Casing (TOC) elevation was surveyed in feet above mean sea level (amsl)
3: Hydrologic Unit Code refers to aquifer well is screened/set in, overburden (OB) or bedrock (BR).
No product has been observed or measured in any recovery/monitoring wells during periodic monitoring activities
NM*: Not Measured
ft btoc: feet below top of casing
ft bgs: feet below ground surface
NA: not applicable

TABLE 1

PARSONS

McMASTER STREET
WATER LEVEL GAUGING DATA
2023

Well ID	TOC Elevation (ft)	Screened Interval (feet bgs)	Sump Interval (feet bgs)	Hydrologic Unit Code [3]	Water Depth (ft btoc) October 2023	Groundwater Elevation October 2023	Product Thickness (ft) October 2023	Water Depth (ft btoc) November 2023	Product Thickness (ft) November 2023
RW-01	658.81 [1]	9.8 - 19.8	19.8 - 25.1	BR	NM*	-	-	5.94	-
RW-02	659.59 [1]	6.9 - 16.9	16.9 - 22.3	BR	NM*	-	-	6.99	-
RW-03	663.4 [1]	8.1 - 18.1	18.1 - 23.2	BR	NM*	-	-	9.55	-
MW-PAR-08	658.53 [1]	6.5 - 11.5	NA	OB	6.39	652.14	NM*	5.83	NM*
MW-PAR-09	663.22 [1]	6.0 - 16.0	NA	OB	9.94	653.28	NM*	NM*	NM*
MW-04-06	668.07 [2]	4.9 - 14.9	NA	OB	11.15	656.92	NM*	NM*	NM*
MW-06-09	662.34 [2]	5.2 - 15.2	NA	OB	7.18	655.16	NM*	NM*	NM*
MW-06-10	675.76 [2]	3.0 - 8.0	NA	OB	3.05	672.71	NM*	NM*	NM*

Notes:
1: Top of Casing (TOC) elevation was surveyed using the North American Vertical Datum of
2: Top of Casing (TOC) elevation was surveyed in feet above mean sea level (amsl)
3: Hydrologic Unit Code refers to aquifer well is screened/set in, overburden (OB) or bedroc
No product has been observed or measured in any recovery/monitoring wells during period
NM*: Not Measured
ft btoc: feet below top of casing
ft bgs: feet below ground surface
NA: not applicable

TABLE 2

McMASTER STREET
GROUNDWATER ANALYTICAL RESULTS
2023

			Location ID	MW-04-06	MW-06-09	MW-06-10
			Field Sample ID	MW-04-06-10162023	MW-06-09-10162023	MW-06-10-10162023
			Matrix	WG	WG	WG
			Lab Sample ID	480-213851-14	480-213851-12	480-213851-11
			Sample Date	10/17/2023	10/16/2023	10/16/2023
Chemical Name	**CAS_RN**	**Unit**	**NYSDEC Class GA**			
Volatile Organic Compounds (Method 8260)						
Benzene	71-43-2	ug/L	1	1 U	2 U	2 U
Ethylbenzene	100-41-4	ug/L	5	1 U	2 U	2 U
Toluene	108-88-3	ug/L	5	1 U	2 U	2 U
Xylenes	1330-20-7	ug/L	5	2 U	4 U	4 U
m,p-Xylene	179601-23-1	ug/L	NS	2 U	4 U	4 U
o-Xylene	95-47-6	ug/L	NS	1 U	2 U	2 U
Semivolatile Organic Compounds (Method 8270)						
Acenaphthene	83-32-9	ug/L	20	5.7 U	5.4 U	2.2 J
Acenaphthylene	208-96-8	ug/L	NS	5.7 U	5.4 U	5.2 U
Anthracene	120-12-7	ug/L	50	5.7 U	5.4 U	5.2 U
Benzo(A)Anthracene	56-55-3	ug/L	0.002	5.7 U	5.4 U	5.2 U
Benzo(A)Pyrene	50-32-8	ug/L	ND	5.7 U	5.4 U	5.2 U
Benzo(B)Fluoranthene	205-99-2	ug/L	0.002	5.7 U	5.4 U	5.2 U
Benzo(G,H,I)Perylene	191-24-2	ug/L	NS	5.7 U	5.4 U	5.2 U
Benzo(K)Fluoranthene	207-08-9	ug/L	0.002	5.7 U	5.4 U	5.2 U
Chrysene	218-01-9	ug/L	0.002	5.7 U	5.4 U	5.2 U
Dibenz(A,H)Anthracene	53-70-3	ug/L	NS	5.7 U	5.4 U	5.2 U
Fluoranthene	206-44-0	ug/L	50	5.7 U	5.4 U	5.2 U
Fluorene	86-73-7	ug/L	50	5.7 U	5.4 U	2.4 J
Indeno(1,2,3-C,D)Pyrene	193-39-5	ug/L	0.002	5.7 U	5.4 U	5.2 U
Naphthalene	91-20-3	ug/L	10	5.7 U	5.4 U	1.4 J
Phenanthrene	85-01-8	ug/L	50	5.7 U	5.4 U	1.1 J
Pyrene	129-00-0	ug/L	NS	5.7 U	5.4 U	5.2 U

WG: water sample
U:Indicates the analyte was analyzed for but not detected.
J:Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
Shaded: exceeds the Class GA Criteria/Standard
ug/L: micrograms per liter (ppb)
NS: no standard or criteria is cited in TOGS 1.1.1
ND: non detect

TABLE 2

McMASTER STREET
GROUNDWATER ANALYTICAL RESULTS
2023

				Location ID	MW-PAR-08	MW-PAR-08	MW-PAR-08	MW-PAR-08	MW-PAR-08	MW-PAR-09
				Field Sample ID	MW-PAR-08-03302023	MW-PAR08-05152023	MW-PAR-08-09152023	MW-PAR-08-10162023	MW-PAR-08-113023	MW-PAR-09-10162023
				Matrix	WG	WG	WG	WG	WG	WG
				Lab Sample ID	480-207436-1	480-208905-1	480-212817-1	480-213851-9	480-215302-2	480-213851-10
				Sample Date	3/30/2023	5/15/2023	9/15/2023	10/16/2023	11/30/2023	10/16/2023
Chemical Name	**CAS_RN**	**Unit**	**NYSDEC Class GA**							
Volatile Organic Compounds (Method 8260)										
Benzene	71-43-2	ug/L	1	33	190	39	110	28	1 U	
Ethylbenzene	100-41-4	ug/L	5	1.5	17	5.5	18	2.9	1 U	
Toluene	108-88-3	ug/L	5	0.73 J	13	1.2	4.3	0.58 J	1 U	
Xylenes	1330-20-7	ug/L	5	1 J	26	5.4	18	3.9	2 U	
m,p-Xylene	179601-23-1	ug/L	NS	1 J	17	3.6	11	2.6	2 U	
o-Xylene	95-47-6	ug/L	NS	1 U	9	1.8	6.5	1.3	1 U	
Semivolatile Organic Compounds (Method 8270)										
Acenaphthene	83-32-9	ug/L	20	4 J	23	13	25	8	5.2 U	
Acenaphthylene	208-96-8	ug/L	NS	1.1 J	10	4.8 J	9.3	3.1 J	5.2 U	
Anthracene	120-12-7	ug/L	50	0.3 J	3.6 J	2.5 J	4.1 J	0.98 J	5.2 U	
Benzo(A)Anthracene	56-55-3	ug/L	0.002	5 U	5 U	5 U	5.4 U	5 U	5.2 U	
Benzo(A)Pyrene	50-32-8	ug/L	ND	5 U	5 U	5 U	5.4 U	5 U	5.2 U	
Benzo(B)Fluoranthene	205-99-2	ug/L	0.002	5 U	5 U	5 U	5.4 U	5 U	5.2 U	
Benzo(G,H,I)Perylene	191-24-2	ug/L	NS	5 U	5 U	5 U	5.4 U	5 U	5.2 U	
Benzo(K)Fluoranthene	207-08-9	ug/L	0.002	5 U	5 U	5 U	5.4 U	5 U	5.2 U	
Chrysene	218-01-9	ug/L	0.002	5 U	5 U	5 U	5.4 U	5 U	5.2 U	
Dibenz(A,H)Anthracene	53-70-3	ug/L	NS	5 U	5 U	5 U	5.4 U	5 U	5.2 U	
Fluoranthene	206-44-0	ug/L	50	0.96 J	3.8 J	3.4 J	4.2 J	1.4 J	5.2 U	
Fluorene	86-73-7	ug/L	50	2.6 J	13	8	15	4.3 J	5.2 U	
Indeno(1,2,3-C,D)Pyrene	193-39-5	ug/L	0.002	5 U	5 U	5 U	5.4 U	5 U	5.2 U	
Naphthalene	91-20-3	ug/L	10	1.6 J	45	5 U	3 J	6.2	5.2 U	
Phenanthrene	85-01-8	ug/L	50	0.78 J	22	13	23	5.1	5.2 U	
Pyrene	129-00-0	ug/L	NS	0.52 J	2.6 J	2.4 J	2.8 J	0.89 J	5.2 U	

WG: water sample
U:Indicates the analyte was analyzed for but not detected.
J:Result is less than the RL but greater than or equal to the MDL and the con
Shaded: exceeds the Class GA Criteria/Standard
ug/L: micrograms per liter (ppb)
NS: no standard or criteria is cited in TOGS 1.1.1
ND: non detect

Appendix A – Groundwater Sampling Logs

PARSONS

McMaster Street Former MGP Site
Auburn, NY

Low Flow Ground Water Sampling Log

Date	03/30/23	Personnel	Zack Cornish	Weather	Cloudy 30
Site Name	McMaster	Evacuation Method	Peristaltic Pump	Well #	MW-PAR-08
Site Location	Auburn NY	Sampling Method	Low Flow	Project #	452562.03000

Well information:

Depth of Well	11 ft.	*Measurements taken from:		
Depth to Water	5.53 ft.		X	Top of Well Casing
H_{wc}	5.47 ft.			Top of Protective Casing
Depth to Intake	9 ft.			(Other, Specify)

Start Purge Time: 1300

		10%	0.1	3%	10 mV	10%	10%	100 - 500 mL/min
Elapsed Time (min)	**Depth to Water (ft)**	**Temperature (celsius)**	**pH**	**Conductivity (ms/cm)**	**Oxidation Reduction Potential**	**Dissolved Oxygen (mg/L)**	**Turbidity (NTU)**	**Flow Rate (mL/min)**
0	5.4	5.94	6.84	0.562	91	2.3	10.3	200
5	5.1	5.3	7.29	0.537	26	12	12	200
10	4.97	5.18	7.52	0.515	-10	4.6	4.6	200
15	4.9	5.46	7.45	0.484	-17	1.7	1.7	200
20	4.99	5.19	7.66	0.47	-19	0	0	200
25	4.99	5	7.68	0.466	-21	0	0	200
30	4.99	4.92	7.7	0.464	-20	0	0	200

End Purge Time: 1330

Water Sample

Time Collected: 1330

Total volume of purged water removed: 1.6 (gallons)

Physical appearance at start:

Color Slightly turbid
Odor None
Sheen/Free Product None

Physical appearance at start:

Color Clear
Odor None
Sheen/Free Product None

Samples: (See list of parameters collected below)

MS/MSD/Field Dup?

Sample	Container Type	# Collected	Field Filtered	Preservative	Container pH
BTEX	40 mL VOA	3	no	HCL	-
PAH	250 Amber	2	no	None	-

PARSONS

McMaster Street Former MGP Site
Auburn, NY

Low Flow Ground Water Sampling Log

Date	10/16/23	Personnel	Logan Sieber	Weather	cloudy 50
Site Name	McMaster	Evacuation Method	Peristaltic Pump	Well #	MW-PAR-09
Site Location	Auburn NY	Sampling Method	Low Flow	Project #	452562.03000

Well information:

Depth of Well	15.81 ft.	*Measurements taken from:	
Depth to Water	9.94 ft.	X	Top of Well Casing
H_{wc}	5.87 ft.		Top of Protective Casing
Depth to Intake	14.8 ft.		(Other, Specify)

Start Purge Time: 1147

		10%	0.1	3%	10 mV	10%	10%	100 - 500 mL/min
Elapsed Time (min)	**Depth to Water (ft)**	**Temperature (celsius)**	**pH**	**Conductivity (ms/cm)**	**Oxidation Reduction Potential**	**Dissolved Oxygen (mg/L)**	**Turbidity (NTU)**	**Flow Rate (mL/min)**
0	10.12	16.71	6.85	1.31	-99	1.86	671	330
5	10.15	16.34	6.76	1.33	-115	0.89	197	330
10	10.15	16.18	6.89	1.3	-115	0.62	48.2	330
15	10.2	15.87	6.65	1.34	-116	0.56	40.5	330
20	10.2	15.71	6.62	1.34	-115	0.58	35.7	330
25	10.2	15.57	6.64	1.35	-118	0.48	49.2	330
30	10.2	15.58	6.63	1.35	-119	0.46	52.7	330
35	10.21	15.61	6.68	1.35	-123	0.49	13.9	330
40	10.21	15.64	6.7	1.35	-125	0.45	11.7	330
45	10.22	15.71	6.74	1.35	-128	0.42	12	330
50	10.24	15.72	6.71	1.36	-126	0.41	11.1	330
55	10.25	15.71	6.7	1.36	-126	0.41	11.4	330

End Purge Time:

Water Sample

Time Collected: 1242

Total volume of purged water removed: 1.5 (gallons)

Physical appearance at start:
Color light brown
Odor organic
Sheen/Free Product None

Physical appearance at start:
Color Clear
Odor organic
Sheen/Free Product None

Samples: (See list of parameters collected below)

MS/MSD/Field Dup?

Sample	Container Type	# Collected	Field Filtered	Preservative	Container pH
BTEX	40 mL VOA	3	no	HCL	-
PAH	250 Amber	2	no	None	-

PARSONS

McMaster Street Former MGP Site
Auburn, NY

Low Flow Ground Water Sampling Log

Date	09/15/23	Personnel	Joe Sullivan	Weather	Sun 62
Site Name	McMaster	Evacuation Method	Peristaltic Pump	Well #	MW-PAR-08
Site Location	Auburn NY	Sampling Method	Low Flow	Project #	452562.03000

Well information:

Depth of Well	11.15 ft.	*Measurements taken from:		
Depth to Water	5.62 ft.		X	Top of Well Casing
H_{wc}	5.53 ft.			Top of Protective Casing
Depth to Intake	9 ft.			(Other, Specify)

Start Purge Time: 0930

		10%	0.1	3%	10 mV	10%	10%	100 - 500 mL/min
Elapsed Time (min)	**Depth to Water (ft)**	**Temperature (celsius)**	**pH**	**Conductivity (ms/cm)**	**Oxidation Reduction Potential**	**Dissolved Oxygen (mg/L)**	**Turbidity (NTU)**	**Flow Rate (mL/min)**
0	5.67	18.38	8.1	0.465	-298	0.16	0	200
5	5.69	20.69	7.83	0.451	-267	0	0	200
10	5.67	19.89	7.73	0.46	-270	0	0	200
15	5.77	20.22	7.77	0.45	-272	0	0	200
20	5.82	20.65	7.75	0.444	-269	0	0	200
25	5.84	20.73	7.72	0.441	-267	0.02	0	200
30	5.83	20.76	7.71	0.439	-266	0.02	0	200
35	5.83	21	7.69	0.435	-263	0.02	0	200
40	5.83	21.2	7.68	0.432	-262	0	0	200

End Purge Time: 1035

Water Sample

Time Collected: 1040

Total volume of purged water removed: 2 (gallons)

Physical appearance at start:

Color Clear
Odor None
Sheen/Free Product None

Physical appearance at start:

Color Clear
Odor None
Sheen/Free Product None

Samples: (See list of parameters collected below)

MS/MSD/Field Dup?

Sample	Container Type	# Collected	Field Filtered	Preservative	Container pH
BTEX	40 mL VOA	3	no	HCL	-
PAH	250 Amber	2	no	None	-

PARSONS

McMaster Street Former MGP Site
Auburn, NY

Low Flow Ground Water Sampling Log

Date	10/16/23	Personnel	Maddie Fergusen	Weather	cloudy 50
Site Name	McMaster	Evacuation Method	Peristaltic Pump	Well #	MW-PAR-08
Site Location	Auburn NY	Sampling Method	Low Flow	Project #	452562.03000

Well information:

Depth of Well	11.08 ft.	*Measurements taken from:		
Depth to Water	6.39 ft.		X	Top of Well Casing
H_{wc}	4.69 ft.			Top of Protective Casing
Depth to Intake	10 ft.			(Other, Specify)

Start Purge Time: 1032

		10%	0.1	3%	10 mV	10%	10%	100 - 500 mL/min
Elapsed Time (min)	**Depth to Water (ft)**	**Temperature (celsius)**	**pH**	**Conductivity (ms/cm)**	**Oxidation Reduction Potential**	**Dissolved Oxygen (mg/L)**	**Turbidity (NTU)**	**Flow Rate (mL/min)**
0	7.03	15.61	7.96	0.639	-63	4.08	13	286
5	7.1	16.99	7.72	0.626	-128	1.95	15	260
10	7.26	17.37	7.73	0.613	-156	1.45	4.5	260
15	7.34	17.47	7.9	0.623	-163	1.15	3.2	260
20	7.38	17.54	7.77	0.632	-167	0.95	2.8	260
25	7.43	17.63	7.49	0.64	-165	0.79	2.6	260
30	7.52	17.73	7.52	0.638	-169	0.73	2.6	260
35	7.55	17.87	7.58	0.642	-175	0.67	2.6	260
40	7.59	17.94	7.6	0.65	-178	0.61	2.4	260

End Purge Time: 1112

Water Sample

Time Collected: 1117

Total volume of purged water removed: 7 (gallons)

Physical appearance at start:
Color clear
Odor hydrocarbon
Sheen/Free Product None

Physical appearance at start:
Color Clear
Odor hydrocarbon
Sheen/Free Product None

Samples: (See list of parameters collected below)

MS/MSD/Field Dup?

Sample	Container Type	# Collected	Field Filtered	Preservative	Container pH
BTEX	40 mL VOA	3	no	HCL	-
PAH	250 Amber	2	no	None	-

PARSONS

McMaster Street Former MGP Site
Auburn, NY

Low Flow Ground Water Sampling Log

Date	10/16/23	Personnel	Maddie Fergusen	Weather	cloudy 50
Site Name	McMaster	Evacuation Method	Peristaltic Pump	Well #	MW-06-10
Site Location	Auburn NY	Sampling Method	Low Flow	Project #	452562.03000

Well information:

Depth of Well	7.62 ft.	*Measurements taken from:		
Depth to Water	3.05 ft.		X	Top of Well Casing
H_{wc}	4.57 ft.			Top of Protective Casing
Depth to Intake	5.5 ft.			(Other, Specify)

Start Purge Time: 1337

		10%	0.1	3%	10 mV	10%	10%	100 - 500 mL/min
Elapsed Time (min)	**Depth to Water (ft)**	**Temperature (celsius)**	**pH**	**Conductivity (ms/cm)**	**Oxidation Reduction Potential**	**Dissolved Oxygen (mg/L)**	**Turbidity (NTU)**	**Flow Rate (mL/min)**
0	3.05	17.69	6.69	1.01	-113	1.89	28	400
5	3.15	17.96	6.61	1.01	-119	1.23	37.5	280
10	3.19	18.37	6.6	1.01	-125	0.74	27.1	280
15	3.17	18.45	6.63	1.01	-128	0.85	21.2	280
20	3.22	18.5	6.63	1	-129	0.8	16.9	280
25	3.23	18.59	6.63	1	-131	0.74	5.8	280
30	3.27	18.61	6.62	1	-131	0.72	5.2	280
35	3.27	18.58	6.62	1	-131	0.7	5.5	280
40	3.28	18.53	6.62	1.01	-132	0.7	4.7	280
45	3.28	18.48	6.61	1.01	-131	0.69	4	280

End Purge Time: 1234

Water Sample

Time Collected: 1435

Total volume of purged water removed: 5 (gallons)

Physical appearance at start:

Color Clear
Odor None
Sheen/Free Product slight sheen

Physical appearance at start:

Color Clear
Odor None
Sheen/Free Product slight sheen

Samples: (See list of parameters collected below)

MS/MSD/Field Dup?

Sample	Container Type	# Collected	Field Filtered	Preservative	Container pH
BTEX	40 mL VOA	3	no	HCL	-
PAH	250 Amber	2	no	None	-

PARSONS

McMaster Street Former MGP Site
Auburn, NY

Low Flow Ground Water Sampling Log

Date	10/16/23	Personnel	Zack Cornish	Weather	rain 63
Site Name	McMaster	Evacuation Method	Peristaltic Pump	Well #	MW-06-09
Site Location	Auburn NY	Sampling Method	Low Flow	Project #	452562.03000

Well information:

Depth of Well	14.4 ft.	*Measurements taken from:		
Depth to Water	7.18 ft.		X	Top of Well Casing
H_{wc}	7.22 ft.			Top of Protective Casing
Depth to Intake	12 ft.			(Other, Specify)

Start Purge Time: 1325

		10%	0.1	3%	10 mV	10%	10%	100 - 500 mL/min
Elapsed Time (min)	**Depth to Water (ft)**	**Temperature (celsius)**	**pH**	**Conductivity (ms/cm)**	**Oxidation Reduction Potential**	**Dissolved Oxygen (mg/L)**	**Turbidity (NTU)**	**Flow Rate (mL/min)**
5	7.6	15.69	6.68	4.01	-150	2.8	116	150
10	7.75	16.04	6.68	3.98	-155	2.61	137	150
15	7.8	16.19	6.68	3.96	-157	2.48	113	150
20	7.82	16.27	6.68	3.95	-161	2.34	32	150
25	8.1	16.34	6.75	3.93	-172	2.28	15	150
30	8.3	16.43	6.78	3.92	-176	2.27	5	150
35	8.34	16.48	6.79	3.91	-175	2.2	1.4	150
40	8.4	16.47	6.79	3.9	-175	2.19	0	150

End Purge Time: 1200

Water Sample

Time Collected: 1200

Total volume of purged water removed: 2.5 (gallons)

Physical appearance at start:

Color Clear
Odor None
Sheen/Free Product None

Physical appearance at start:

Color Clear
Odor None
Sheen/Free Product None

Samples: (See list of parameters collected below)

MS/MSD/Field Dup?

Collected Ms/MSD

Colected Dupe @ 1201

Sample	Container Type	# Collected	Field Filtered	Preservative	Container pH
BTEX	40 mL VOA	3	no	HCL	-
PAH	250 Amber	2	no	None	-

Low Flow Ground Water Sampling Log

Date	10/16/23	Personnel	Zack Cornish	Weather	rain 60
Site Name	McMaster	Evacuation Method	Peristaltic Pump	Well #	MW-04-06
Site Location	Auburn NY	Sampling Method	Low Flow	Project #	452562.03000

Well information:

Depth of Well	14.58 ft.	*Measurements taken from:		
Depth to Water	11.15 ft.		X	Top of Well Casing
H_{wc}	3.43 ft.			Top of Protective Casing
Depth to Intake	12 ft.			(Other, Specify)

Start Purge Time: 1325

		10%	0.1	3%	10 mV	10%	10%	100 - 500 mL/min
Elapsed Time (min)	**Depth to Water (ft)**	**Temperature (celsius)**	**pH**	**Conductivity (ms/cm)**	**Oxidation Reduction Potential**	**Dissolved Oxygen (mg/L)**	**Turbidity (NTU)**	**Flow Rate (mL/min)**
5	11.61	14.96	7.14	1.5	76	4.3	11.7	150
10	12.6	14.9	6.56	1.52	82	2.53	7.7	150
15	12.85	14.87	6.54	1.52	81	2.48	11.8	150
20	12.91	14.83	6.52	1.51	80	2.36	6	150
25	13.5	14.78	6.51	1.52	80	2.25	5.4	150
30	DRY							

End Purge Time: 1355

Water Sample

Time Collected: 0930 on 10/17/23

Total volume of purged water removed: 2 (gallons)

Physical appearance at start:

Color Clear
Odor None
Sheen/Free Product None

Physical appearance at start:

Color Clear
Odor None
Sheen/Free Product None

Samples: (See list of parameters collected below)

MS/MSD/Field Dup?

Well went dry on 10/16/2023 at 1355. Allow recharge over night and collect sampled at 0930 on 10/17/2023

Sample	Container Type	# Collected	Field Filtered	Preservative	Container pH
BTEX	40 mL VOA	3	no	HCL	-
PAH	250 Amber	2	no	None	-

PARSONS

McMaster Street Former MGP Site
Auburn, NY

Low Flow Ground Water Sampling Log

Date	11/30/23	Personnel	Joe Sullivan	Weather	cloudy 50
Site Name	McMaster	Evacuation Method	Peristaltic Pump	Well #	MW-PAR-08
Site Location	Auburn NY	Sampling Method	Low Flow	Project #	452562.03000

Well information:

Depth of Well	11.15 ft.	*Measurements taken from:		
Depth to Water	5.83 ft.		X	Top of Well Casing
H_{wc}	5.32 ft.			Top of Protective Casing
Depth to Intake	9 ft.			(Other, Specify)

Start Purge Time: 1026

		10%	0.1	3%	10 mV	10%	10%	100 - 500 mL/min
Elapsed Time (min)	**Depth to Water (ft)**	**Temperature (celsius)**	**pH**	**Conductivity (ms/cm)**	**Oxidation Reduction Potential**	**Dissolved Oxygen (mg/L)**	**Turbidity (NTU)**	**Flow Rate (mL/min)**
0	5.8	11.5	7.87	0.569	94	0	4.6	375
5	5.8	11.42	7.8	0.559	37	0	4.2	375
10	5.8	11.33	7.64	0.544	35	0	1.1	375
15	5.8	11.22	7.58	0.545	44	0	0	375
20	5.8	11.06	7.48	0.542	49	0	0	375
25	5.8	11.02	7.36	0.537	50	0	0	375
30	5.8	10.92	7.31	0.537	50	0	0	375

End Purge Time: 1056

Water Sample

Time Collected: 1100

Total volume of purged water removed: 1.5 (gallons)

Physical appearance at start:
Color Clear
Odor hydrocarbon
Sheen/Free Product None

Physical appearance at start:
Color Clear
Odor None
Sheen/Free Product None

Samples: (See list of parameters collected below)

MS/MSD/Field Dup?

Sample	Container Type	# Collected	Field Filtered	Preservative	Container pH
BTEX	40 mL VOA	3	no	HCL	-
PAH	250 Amber	2	no	None	-

PARSONS

McMaster Street Former MGP Site
Auburn, NY

Low Flow Ground Water Sampling Log

Date	05/15/23	Personnel	Zack Cornish	Weather	Sunny 70
Site Name	McMaster	Evacuation Method	Geopump	Well #	MW-PAR-08
Site Location	Auburn NY	Sampling Method	low flow	Project #	

Well information:

Depth of Well	11 ft.	*Measurements taken from:	
Depth to Water	6.42 ft.	X	Top of Well Casing
H_{wc}	4.58 ft.		Top of Protective Casing
Depth to Intake	9 ft.		(Other, Specify)

Start Purge Time: 1240

		10%	0.1	3%	10 mV	10%	10%	100 - 500 mL/min
Elapsed Time (min)	**Depth to Water (ft)**	**Temperature (celsius)**	**pH**	**Conductivity (ms/cm)**	**Oxidation Reduction Potential**	**Dissolved Oxygen (mg/L)**	**Turbidity (NTU)**	**Flow Rate (mL/min)**
5	6.51	14.08	7.62	0.586	19	1.06	0	200
10	8.3	13.05	7.6	0.601	18	1.05	0	200
15	8.89	12.2	7.62	0.622	16	0.98	0	200
20	9.1	12.14	7.67	0.635	12	0.83	0	150
25	9.15	12.5	7.68	0.647	8	0.72	0	150
30	9.18	13	7.69	0.644	4	0.65	0	150
35	9.18	13.2	7.69	0.64	0	0.62	0	150
40	9.18	13.3	7.69	0.64	0	0.6	0	150

End Purge Time: 1320

Water Sample

Time Collected: 1325

Total volume of purged water removed: 2 (gallons)

Physical appearance at start:

Color Clear
Odor No
Sheen/Free Product No

Physical appearance at start:

Color Clear
Odor N
Sheen/Free Product N

Samples: (See list of parameters collected below)

MS/MSD/Field Dup?

Sample	Container Type	# Collected	Field Filtered	Preservative	Container pH
BTEX	40 mL VOA	3	no	HCL	-
PAH	250 Amber	2	no	None	-

Appendix B – Data Usability Summary Report (2022)

DATA USABILITY SUMMARY REPORT

McMASTER STREET
FORMER MANUFACTURED GAS PLANT SITE
AUBURN, NEW YORK

Prepared For:

NEW YORK STATE ELECTRIC AND GAS CORPORATION

Prepared By:

PARSONS

301 Plainfield Road, Suite 350
Syracuse, New York 13212

JULY 2023

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ATTACHMENT A – VALIDATED LABORATORY DATA

SECTION 1 DATA USABILITY SUMMARY

Groundwater samples were collected from the Iberdrola McMaster Street site in Auburn, New York on March 30, 2023 and May 15, 2023. Analytical results from these samples were validated and reviewed by Parsons for usability with respect to the following requirements:

- Work Plan,
- Analytical methodologies, and
- USEPA Region II Standard Operating Procedures (SOPs) for organic data review.

The analytical laboratory for this project was Eurofins – Environment Testing America (Eurofins) in Buffalo, New York. This laboratory is certified to perform project analyses through the New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP).

1.1 Laboratory Data Packages

The laboratory data package turnaround time, defined as the time from sample receipt by the laboratory to receipt of the analytical data packages by Parsons, was 8-10 days for the project samples.

The data packages received from Eurofins were paginated, complete, and overall were of good quality. Comments on specific quality control (QC) and other requirements are discussed in detail in the attached data validation report which is summarized in Section 2.

1.2 Sampling and Chain-of-Custody

The samples were collected, properly preserved, shipped under a chain-of-custody (COC) record, and received at Eurofins within one day of sampling. All samples were received intact and in good condition at the laboratory.

1.3 Laboratory Analytical Methods

The groundwater samples that were collected from the site were analyzed for the volatiles benzene, toluene, ethylbenzene, and xylenes (BTEX) and polynuclear aromatic hydrocarbons (PAHs). Summaries of issues concerning these laboratory analyses are presented in Subsections 1.3.1 through 1.3.2. The data qualifications resulting from the data validation review and statements on the laboratory analytical precision, accuracy, representativeness, completeness, comparability, and sensitivity (PARCCS) are discussed for each analytical method in Section 2. The laboratory data were reviewed and may be qualified with the following validation flags:

"U" - not detected at the value given,
"UJ" - estimated and not detected at the value given,
"J" - estimated at the value given,
"J+" - estimated biased high at the value given,
"J-" - estimated biased low at the value given,
"N" - presumptive evidence at the value given, and
"R" - unusable value.

The validated laboratory data were tabulated and are presented in Attachment A.

1.3.1 Volatile Organic Analysis

The project samples were analyzed for BTEX using the USEPA SW-846 8260C analytical method. The reported results for these samples did not require qualification resulting from data validation. The reported BTEX analytical results were 100% (i.e., usable) for the project data. PARCCS requirements were met.

1.3.2 Semivolatile Organic Analysis

The project samples were analyzed for PAHs using the USEPA SW-846 8270D analytical method. The reported results for these samples did not require qualification resulting from data validation. The reported PAHs analytical results were 100% complete (i.e., usable) for the project data. PARCCS requirements were met.

SECTION 2 DATA VALIDATION REPORT

2.1 Groundwater Samples

Data review has been completed for data packages generated by Eurofins containing groundwater samples collected from the site. Analytical results from these samples were contained within sample delivery groups (SDGs) 480-207436-1 and 480-208905-1. All of these samples were properly preserved, shipped under a COC record, and received intact by the analytical laboratory. The validated laboratory data are presented in Attachment A.

Data validation was performed for all samples in accordance with the most current editions of the USEPA Region II SOPs for organic data review. This data validation and usability report is presented by analysis type.

2.1.1 BTEX

The following items were reviewed for compliancy in the BTEX analysis:

- Custody documentation
- Holding times
- Surrogate recoveries
- Matrix spike/matrix spike duplicate (MS/MSD) precision and accuracy
- Laboratory control sample (LCS) recoveries
- Laboratory method blank and trip/equipment blank contamination
- GC/MS instrument performance
- Initial and continuing calibrations
- Internal standard area counts and retention times
- Field duplicate precision
- Sample result verification and identification
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols.

Usability

All BTEX sample results were considered usable following data validation.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, comparability, and sensitivity. The BTEX data presented by Eurofins were 100% complete (i.e., usable). The validated laboratory data are tabulated and presented in Attachment A.

2.1.2 PAHs

The following items were reviewed for compliancy in the PAH analysis:

- Custody documentation
- Holding times
- Surrogate recoveries
- MS/MSD precision and accuracy

- LCS recoveries
- Laboratory method blank and equipment blank contamination
- GC/MS instrument performance
- Initial and continuing calibrations
- Internal standard area counts and retention times
- Field duplicate precision
- Sample result verification and identification
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols.

Usability

All PAH sample results were considered usable following data validation.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, comparability, and sensitivity. The PAH data presented by Eurofins were 100% complete (i.e., usable). The validated laboratory data are tabulated and presented in Attachment A.

ATTACHMENT A – VALIDATED LABORATORY DATA

		Location ID		MW-PAR-08		MW-PAR-08	
		Field Sample ID		MW-PAR-08-03302023		MW-PAR08-05152023	
		Matrix		WG		WG	
		Lab Sample ID		480-207436-1		480-208905-1	
		SDG		4802074361		4802089051	
		Sample Date		3/30/2023		5/15/2023	
		Sample Type Code		N		N	
Analytical Method	Chemical Name	cas_rn	Unit				
SW8260C	Benzene	71-43-2	ug/L	33		190	
SW8260C	Ethylbenzene	100-41-4	ug/L	1.5		17	
SW8260C	m,p-Xylene	179601-23-1	ug/L	1	J	17	
SW8260C	O-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/L	1	U	9	
SW8260C	Toluene	108-88-3	ug/L	0.73	J	13	
SW8260C	Xylenes	1330-20-7	ug/L	1	J	26	
SW8270D	Acenaphthene	83-32-9	ug/L	4	J	23	
SW8270D	Acenaphthylene	208-96-8	ug/L	1.1	J	10	
SW8270D	Anthracene	120-12-7	ug/L	0.3	J	3.6	J
SW8270D	Benzo(A)Anthracene	56-55-3	ug/L	5	U	5	U
SW8270D	Benzo(A)Pyrene	50-32-8	ug/L	5	U	5	U
SW8270D	Benzo(B)Fluoranthene	205-99-2	ug/L	5	U	5	U
SW8270D	Benzo(G,H,I)Perylene	191-24-2	ug/L	5	U	5	U
SW8270D	Benzo(K)Fluoranthene	207-08-9	ug/L	5	U	5	U
SW8270D	Chrysene	218-01-9	ug/L	5	U	5	U
SW8270D	Dibenz(A,H)Anthracene	53-70-3	ug/L	5	U	5	U
SW8270D	Fluoranthene	206-44-0	ug/L	0.96	J	3.8	J
SW8270D	Fluorene	86-73-7	ug/L	2.6	J	13	
SW8270D	Indeno(1,2,3-C,D)Pyrene	193-39-5	ug/L	5	U	5	U
SW8270D	Naphthalene	91-20-3	ug/L	1.6	J	45	
SW8270D	Phenanthrene	85-01-8	ug/L	0.78	J	22	
SW8270D	Pyrene	129-00-0	ug/L	0.52	J	2.6	J

DATA USABILITY SUMMARY REPORT

McMASTER STREET
FORMER MANUFACTURED GAS PLANT SITE
AUBURN, NEW YORK

Prepared For:

NEW YORK STATE ELECTRIC AND GAS CORPORATION

Prepared By:

PARSONS

301 Plainfield Road, Suite 350
Syracuse, New York 13212

JANUARY 2024

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LIST OF ATTACHMENTS

ATTACHMENT A – VALIDATED LABORATORY DATA

SECTION 1 DATA USABILITY SUMMARY

Groundwater samples were collected from the Iberdrola McMaster Street site in Auburn, New York on September 15, 2023, October 16, 2023, October 17, 2023, and November 30, 2023. Analytical results from these samples were validated and reviewed by Parsons for usability with respect to the following requirements:

- Work Plan,
- Analytical methodologies, and
- USEPA Region II Standard Operating Procedures (SOPs) for organic data review.

The analytical laboratory for this project was Eurofins – Environment Testing America (Eurofins) in Buffalo, New York. This laboratory is certified to perform project analyses through the New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP).

1.1 Laboratory Data Packages

The laboratory data package turnaround time, defined as the time from sample receipt by the laboratory to receipt of the analytical data packages by Parsons, was 8-10 days for the project samples.

The data packages received from Eurofins were paginated, complete, and overall were of good quality. Comments on specific quality control (QC) and other requirements are discussed in detail in the attached data validation report which is summarized in Section 2.

1.2 Sampling and Chain-of-Custody

The samples were collected, properly preserved, shipped under a chain-of-custody (COC) record, and received at Eurofins within one to two days of sampling. All samples were received intact and in good condition at the laboratory.

1.3 Laboratory Analytical Methods

The groundwater samples that were collected from the site were analyzed for the volatiles benzene, toluene, ethylbenzene, and xylenes (BTEX) and polynuclear aromatic hydrocarbons (PAHs). Summaries of issues concerning these laboratory analyses are presented in Subsections 1.3.1 through 1.3.2. The data qualifications resulting from the data validation review and statements on the laboratory analytical precision, accuracy, representativeness, completeness, comparability, and sensitivity (PARCCS) are discussed for each analytical method in Section 2. The laboratory data were reviewed and may be qualified with the following validation flags:

"U" - not detected at the value given,
"UJ" - estimated and not detected at the value given,
"J" - estimated at the value given,
"J+" - estimated biased high at the value given,
"J-" - estimated biased low at the value given,
"N" - presumptive evidence at the value given, and
"R" - unusable value.

The validated laboratory data were tabulated and are presented in Attachment A.

1.3.1 Volatile Organic Analysis

The project samples were analyzed for BTEX using the USEPA SW-846 8260C analytical method. The reported results for these samples did not require qualification resulting from data validation. The reported BTEX analytical results were 100% (i.e., usable) for the project data. PARCCS requirements were met.

1.3.2 Semivolatile Organic Analysis

The project samples were analyzed for PAHs using the USEPA SW-846 8270D analytical method. The reported results for these samples did not require qualification resulting from data validation. The reported PAHs analytical results were 100% complete (i.e., usable) for the project data. PARCCS requirements were met.

SECTION 2 DATA VALIDATION REPORT

2.1 Groundwater Samples

Data review has been completed for data packages generated by Eurofins containing groundwater samples collected from the site. Analytical results from these samples were contained within sample delivery groups (SDGs) 480-212817-1, 480-213851-2, and 480-215302-1. All of these samples were properly preserved, shipped under a COC record, and received intact by the analytical laboratory. The validated laboratory data are presented in Attachment A.

Data validation was performed for all samples in accordance with the most current editions of the USEPA Region II SOPs for organic data review. This data validation and usability report is presented by analysis type.

2.1.1 BTEX

The following items were reviewed for compliancy in the BTEX analysis:

- Custody documentation
- Holding times
- Surrogate recoveries
- Matrix spike/matrix spike duplicate (MS/MSD) precision and accuracy
- Laboratory control sample (LCS) recoveries
- Laboratory method blank and trip/equipment blank contamination
- GC/MS instrument performance
- Initial and continuing calibrations
- Internal standard area counts and retention times
- Field duplicate precision
- Sample result verification and identification
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols.

Usability

All BTEX sample results were considered usable following data validation.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, comparability, and sensitivity. The BTEX data presented by Eurofins were 100% complete (i.e., usable). The validated laboratory data are tabulated and presented in Attachment A.

2.1.2 PAHs

The following items were reviewed for compliancy in the PAH analysis:

- Custody documentation
- Holding times
- Surrogate recoveries
- MS/MSD precision and accuracy

- LCS recoveries
- Laboratory method blank and equipment blank contamination
- GC/MS instrument performance
- Initial and continuing calibrations
- Internal standard area counts and retention times
- Field duplicate precision
- Sample result verification and identification
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of surrogate recoveries as discussed below.

Surrogate Recoveries

All sample surrogate recoveries were considered acceptable and within QC limits with the exception of the low surrogate recovery for p-terphenyl-d14 (QC limit 60-148%R) in sample MW-04-06-10162023 (55%R). Validation qualification was not required for the affected sample.

Usability

All PAH sample results were considered usable following data validation.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, comparability, and sensitivity. The PAH data presented by Eurofins were 100% complete (i.e., usable). The validated laboratory data are tabulated and presented in Attachment A.

ATTACHMENT A – VALIDATED LABORATORY DATA

			Location ID	TB-10162023				TB-11302023				MW-04-06				MW-06-09		MW-06-09	
			Field Sample ID	WQ				WQ				MW-04-06-10162023				BD-10162023		MW-06-09-10162023	
			Matrix	480-213851-15				480-215302-3				WG				WG		WG	
			Lab Sample ID	4802138512				4802153021				480-213851-14				480-213851-13		480-213851-12	
			SDG	10/16/2023				11/30/2023				4802138512				4802138512		4802138512	
			Sample Date	TB				TB				10/17/2023				10/16/2023		10/16/2023	
			Sample Type Code									N				FD		N	
Analytical Method	Chemical Name	CAS_RN	Unit																
SW8260C	1,1,1-Trichloroethane (TCA)	71-55-6	ug/L					1	U										
SW8260C	1,1,2,2-Tetrachloroethane	79-34-5	ug/L					1	U										
SW8260C	1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	ug/L					1	U										
SW8260C	1,1,2-Trichloroethane	79-00-5	ug/L					1	U										
SW8260C	1,1-Dichloroethane	75-34-3	ug/L					1	U										
SW8260C	1,1-Dichloroethene	75-35-4	ug/L					1	U										
SW8260C	1,2,4-Trichlorobenzene	120-82-1	ug/L					1	U										
SW8260C	1,2-Dibromo-3-Chloropropane	96-12-8	ug/L					1	U										
SW8260C	1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	ug/L					1	U										
SW8260C	1,2-Dichlorobenzene	95-50-1	ug/L					1	U										
SW8260C	1,2-Dichloroethane	107-06-2	ug/L					1	U										
SW8260C	1,2-Dichloropropane	78-87-5	ug/L					1	U										
SW8260C	1,3-Dichlorobenzene	541-73-1	ug/L					1	U										
SW8260C	1,4-Dichlorobenzene	106-46-7	ug/L					1	U										
SW8260C	2-Hexanone	591-78-6	ug/L					5	U										
SW8260C	Acetone	67-64-1	ug/L					10	U										
SW8260C	Benzene	71-43-2	ug/L	1	U			1	U	1	U			1	U			2	U
SW8260C	Bromodichloromethane	75-27-4	ug/L					1	U										
SW8260C	Bromoform	75-25-2	ug/L					1	U										
SW8260C	Bromomethane	74-83-9	ug/L					1	U										
SW8260C	Carbon Disulfide	75-15-0	ug/L					1	U										
SW8260C	Carbon Tetrachloride	56-23-5	ug/L					1	U										
SW8260C	Chlorobenzene	108-90-7	ug/L					1	U										
SW8260C	Chloroethane	75-00-3	ug/L					1	U										
SW8260C	Chloroform	67-66-3	ug/L					1	U										
SW8260C	Chloromethane	74-87-3	ug/L					1	U										
SW8260C	Cis-1,2-Dichloroethylene	156-59-2	ug/L					1	U										
SW8260C	Cis-1,3-Dichloropropene	10061-01-5	ug/L					1	U										
SW8260C	Cyclohexane	110-82-7	ug/L					1	U										
SW8260C	Dibromochloromethane	124-48-1	ug/L					1	U										
SW8260C	Dichlorodifluoromethane	75-71-8	ug/L					1	U										
SW8260C	Ethylbenzene	100-41-4	ug/L	1	U			1	U	1	U			1	U			2	U
SW8260C	Isopropylbenzene (Cumene)	98-82-8	ug/L					1	U										
SW8260C	m,p-Xylene	179601-23-1	ug/L	2	U					2	U			2	U			4	U
SW8260C	Methyl Acetate	79-20-9	ug/L					2.5	U										
SW8260C	Methyl Ethyl Ketone (2-Butanone)	78-93-3	ug/L					10	U										
SW8260C	Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	ug/L					5	U										
SW8260C	Methylcyclohexane	108-87-2	ug/L					1	U										
SW8260C	Methylene Chloride	75-09-2	ug/L					1	U										
SW8260C	O-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/L	1	U					1	U			1	U			2	U
SW8260C	Styrene	100-42-5	ug/L					1	U										
SW8260C	Tert-Butyl Methyl Ether	1634-04-4	ug/L					1	U										
SW8260C	Tetrachloroethylene (PCE)	127-18-4	ug/L					1	U										
SW8260C	Toluene	108-88-3	ug/L	1	U			1	U	1	U			1	U			2	U
SW8260C	Trans-1,2-Dichloroethene	156-60-5	ug/L					1	U										
SW8260C	Trans-1,3-Dichloropropene	10061-02-6	ug/L					1	U										
SW8260C	Trichloroethylene (TCE)	79-01-6	ug/L					1	U										

			Location ID	TB-10162023		TB-11302023		MW-04-06		MW-06-09		MW-06-09	
			Field Sample ID					MW-04-06-10162023		BD-10162023		MW-06-09-10162023	
			Matrix	WQ		WQ		WG		WG		WG	
			Lab Sample ID	480-213851-15		480-215302-3		480-213851-14		480-213851-13		480-213851-12	
			SDG	4802138512		4802153021		4802138512		4802138512		4802138512	
			Sample Date	10/16/2023		11/30/2023		10/17/2023		10/16/2023		10/16/2023	
			Sample Type Code	TB		TB		N		FD		N	
Analytical Method	Chemical Name	CAS_RN	Unit										
SW8260C	Trichlorofluoromethane	75-69-4	ug/L			1	U						
SW8260C	Vinyl Chloride	75-01-4	ug/L			1	U						
SW8260C	Xylenes	1330-20-7	ug/L	2	U	2	U	2	U	2	U	4	U
SW8270D	Acenaphthene	83-32-9	ug/L					5.7	U	5.4	U	5.4	U
SW8270D	Acenaphthylene	208-96-8	ug/L					5.7	U	5.4	U	5.4	U
SW8270D	Anthracene	120-12-7	ug/L					5.7	U	5.4	U	5.4	U
SW8270D	Benzo(A)Anthracene	56-55-3	ug/L					5.7	U	5.4	U	5.4	U
SW8270D	Benzo(A)Pyrene	50-32-8	ug/L					5.7	U	5.4	U	5.4	U
SW8270D	Benzo(B)Fluoranthene	205-99-2	ug/L					5.7	U	5.4	U	5.4	U
SW8270D	Benzo(G,H,I)Perylene	191-24-2	ug/L					5.7	U	5.4	U	5.4	U
SW8270D	Benzo(K)Fluoranthene	207-08-9	ug/L					5.7	U	5.4	U	5.4	U
SW8270D	Chrysene	218-01-9	ug/L					5.7	U	5.4	U	5.4	U
SW8270D	Dibenz(A,H)Anthracene	53-70-3	ug/L					5.7	U	5.4	U	5.4	U
SW8270D	Fluoranthene	206-44-0	ug/L					5.7	U	5.4	U	5.4	U
SW8270D	Fluorene	86-73-7	ug/L					5.7	U	5.4	U	5.4	U
SW8270D	Indeno(1,2,3-C,D)Pyrene	193-39-5	ug/L					5.7	U	5.4	U	5.4	U
SW8270D	Naphthalene	91-20-3	ug/L					5.7	U	5.4	U	5.4	U
SW8270D	Phenanthrene	85-01-8	ug/L					5.7	U	5.4	U	5.4	U
SW8270D	Pyrene	129-00-0	ug/L					5.7	U	5.4	U	5.4	U

			Location ID	MW-06-10		MW-PAR-08		MW-PAR-08		MW-PAR-08		MW-PAR-09	
			Field Sample ID	MW-06-10-10162023		MW-PAR-08-09152023		MW-PAR-08-10162023		MW-PAR-08-113023		MW-PAR-09-10162023	
			Matrix	WG		WG		WG		WG		WG	
			Lab Sample ID	480-213851-11		480-212817-1		480-213851-9		480-215302-2		480-213851-10	
			SDG	4802138512		4802128171		4802138512		4802153021		4802138512	
			Sample Date	10/16/2023		9/15/2023		10/16/2023		11/30/2023		10/16/2023	
			Sample Type Code	N		N		N		N		N	
Analytical Method	Chemical Name	CAS_RN	Unit										
SW8260C	1,1,1-Trichloroethane (TCA)	71-55-6	ug/L										
SW8260C	1,1,2,2-Tetrachloroethane	79-34-5	ug/L										
SW8260C	1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	ug/L										
SW8260C	1,1,2-Trichloroethane	79-00-5	ug/L										
SW8260C	1,1-Dichloroethane	75-34-3	ug/L										
SW8260C	1,1-Dichloroethene	75-35-4	ug/L										
SW8260C	1,2,4-Trichlorobenzene	120-82-1	ug/L										
SW8260C	1,2-Dibromo-3-Chloropropane	96-12-8	ug/L										
SW8260C	1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	ug/L										
SW8260C	1,2-Dichlorobenzene	95-50-1	ug/L										
SW8260C	1,2-Dichloroethane	107-06-2	ug/L										
SW8260C	1,2-Dichloropropane	78-87-5	ug/L										
SW8260C	1,3-Dichlorobenzene	541-73-1	ug/L										
SW8260C	1,4-Dichlorobenzene	106-46-7	ug/L										
SW8260C	2-Hexanone	591-78-6	ug/L										
SW8260C	Acetone	67-64-1	ug/L										
SW8260C	Benzene	71-43-2	ug/L	2	U	39		110		28		1	U
SW8260C	Bromodichloromethane	75-27-4	ug/L										
SW8260C	Bromoform	75-25-2	ug/L										
SW8260C	Bromomethane	74-83-9	ug/L										
SW8260C	Carbon Disulfide	75-15-0	ug/L										
SW8260C	Carbon Tetrachloride	56-23-5	ug/L										
SW8260C	Chlorobenzene	108-90-7	ug/L										
SW8260C	Chloroethane	75-00-3	ug/L										
SW8260C	Chloroform	67-66-3	ug/L										
SW8260C	Chloromethane	74-87-3	ug/L										
SW8260C	Cis-1,2-Dichloroethylene	156-59-2	ug/L										
SW8260C	Cis-1,3-Dichloropropene	10061-01-5	ug/L										
SW8260C	Cyclohexane	110-82-7	ug/L										
SW8260C	Dibromochloromethane	124-48-1	ug/L										
SW8260C	Dichlorodifluoromethane	75-71-8	ug/L										
SW8260C	Ethylbenzene	100-41-4	ug/L	2	U	5.5		18		2.9		1	U
SW8260C	Isopropylbenzene (Cumene)	98-82-8	ug/L										
SW8260C	m,p-Xylene	179601-23-1	ug/L	4	U	3.6		11		2.6		2	U
SW8260C	Methyl Acetate	79-20-9	ug/L										
SW8260C	Methyl Ethyl Ketone (2-Butanone)	78-93-3	ug/L										
SW8260C	Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	ug/L										
SW8260C	Methylcyclohexane	108-87-2	ug/L										
SW8260C	Methylene Chloride	75-09-2	ug/L										
SW8260C	O-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/L	2	U	1.8		6.5		1.3		1	U
SW8260C	Styrene	100-42-5	ug/L										
SW8260C	Tert-Butyl Methyl Ether	1634-04-4	ug/L										
SW8260C	Tetrachloroethylene (PCE)	127-18-4	ug/L										
SW8260C	Toluene	108-88-3	ug/L	2	U	1.2		4.3		0.58	J	1	U
SW8260C	Trans-1,2-Dichloroethene	156-60-5	ug/L										
SW8260C	Trans-1,3-Dichloropropene	10061-02-6	ug/L										
SW8260C	Trichloroethylene (TCE)	79-01-6	ug/L										

			Location ID	MW-06-10		MW-PAR-08		MW-PAR-08		MW-PAR-08		MW-PAR-09	
			Field Sample ID	MW-06-10-10162023		MW-PAR-08-09152023		MW-PAR-08-10162023		MW-PAR-08-113023		MW-PAR-09-10162023	
			Matrix	WG		WG		WG		WG		WG	
			Lab Sample ID	480-213851-11		480-212817-1		480-213851-9		480-215302-2		480-213851-10	
			SDG	4802138512		4802128171		4802138512		4802153021		4802138512	
			Sample Date	10/16/2023		9/15/2023		10/16/2023		11/30/2023		10/16/2023	
			Sample Type Code	N		N		N		N		N	
Analytical Method	Chemical Name	CAS_RN	Unit										
SW8260C	Trichlorofluoromethane	75-69-4	ug/L										
SW8260C	Vinyl Chloride	75-01-4	ug/L										
SW8260C	Xylenes	1330-20-7	ug/L	4	U	5.4		18		3.9		2	U
SW8270D	Acenaphthene	83-32-9	ug/L	2.2	J	13		25		8		5.2	U
SW8270D	Acenaphthylene	208-96-8	ug/L	5.2	U	4.8	J	9.3		3.1	J	5.2	U
SW8270D	Anthracene	120-12-7	ug/L	5.2	U	2.5	J	4.1	J	0.98	J	5.2	U
SW8270D	Benzo(A)Anthracene	56-55-3	ug/L	5.2	U	5	U	5.4	U	5	U	5.2	U
SW8270D	Benzo(A)Pyrene	50-32-8	ug/L	5.2	U	5	U	5.4	U	5	U	5.2	U
SW8270D	Benzo(B)Fluoranthene	205-99-2	ug/L	5.2	U	5	U	5.4	U	5	U	5.2	U
SW8270D	Benzo(G,H,I)Perylene	191-24-2	ug/L	5.2	U	5	U	5.4	U	5	U	5.2	U
SW8270D	Benzo(K)Fluoranthene	207-08-9	ug/L	5.2	U	5	U	5.4	U	5	U	5.2	U
SW8270D	Chrysene	218-01-9	ug/L	5.2	U	5	U	5.4	U	5	U	5.2	U
SW8270D	Dibenz(A,H)Anthracene	53-70-3	ug/L	5.2	U	5	U	5.4	U	5	U	5.2	U
SW8270D	Fluoranthene	206-44-0	ug/L	5.2	U	3.4	J	4.2	J	1.4	J	5.2	U
SW8270D	Fluorene	86-73-7	ug/L	2.4	J	8		15		4.3	J	5.2	U
SW8270D	Indeno(1,2,3-C,D)Pyrene	193-39-5	ug/L	5.2	U	5	U	5.4	U	5	U	5.2	U
SW8270D	Naphthalene	91-20-3	ug/L	1.4	J	5	U	3	J	6.2		5.2	U
SW8270D	Phenanthrene	85-01-8	ug/L	1.1	J	13		23		5.1		5.2	U
SW8270D	Pyrene	129-00-0	ug/L	5.2	U	2.4	J	2.8	J	0.89	J	5.2	U

Appendix C – Eurofins TestAmerica Level 2 Laboratory Analytical Reports

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Cathy Adamitis
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Syracuse, New York 13212

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JOB DESCRIPTION

Avangrid - McMaster Street

JOB NUMBER

480-207436-1

Eurofins Buffalo
10 Hazelwood Drive
Amherst NY 14228-2298

See page two for job notes and contact information.

Job Notes

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization

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Definitions/Glossary

Client: Parsons Corporation
Job ID: 480-207436-1
Project/Site: Avangrid - McMaster Street

Qualifiers

GC/MS 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.
U	Indicates the analyte was analyzed for but not detected.

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.
U	Indicates the analyte was analyzed for but not detected.

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

Job ID: 480-207436-1

Laboratory: Eurofins Buffalo

Narrative

Job Narrative
480-207436-1

Comments
No additional comments.

Receipt
The sample was received on 3/31/2023 10:00 AM. Unless otherwise noted below, the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.9º C.

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

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

Organic Prep
Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 480-663801.

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

Detection Summary

Client: Parsons Corporation
Project/Site: Avangrid - McMaster Street

Job ID: 480-207436-1

Client Sample ID: MW-PAR-08-03302023

Lab Sample ID: 480-207436-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	33		1.0	0.41	ug/L	1		8260C	Total/NA
Toluene	0.73	J	1.0	0.51	ug/L	1		8260C	Total/NA
Ethylbenzene	1.5		1.0	0.74	ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	1.0	J	2.0	0.66	ug/L	1		8260C	Total/NA
Xylenes, Total	1.0	J	2.0	0.66	ug/L	1		8260C	Total/NA
Acenaphthene	4.0	J	5.0	0.41	ug/L	1		8270D	Total/NA
Acenaphthylene	1.1	J	5.0	0.38	ug/L	1		8270D	Total/NA
Anthracene	0.30	J	5.0	0.28	ug/L	1		8270D	Total/NA
Fluoranthene	0.96	J	5.0	0.40	ug/L	1		8270D	Total/NA
Fluorene	2.6	J	5.0	0.36	ug/L	1		8270D	Total/NA
Naphthalene	1.6	J	5.0	0.76	ug/L	1		8270D	Total/NA
Phenanthrene	0.78	J	5.0	0.44	ug/L	1		8270D	Total/NA
Pyrene	0.52	J	5.0	0.34	ug/L	1		8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Parsons Corporation
Job ID: 480-207436-1
Project/Site: Avangrid - McMaster Street

Client Sample ID: MW-PAR-08-03302023
Lab Sample ID: 480-207436-1
Date Collected: 03/30/23 13:30
Matrix: Water
Date Received: 03/31/23 10:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**33**		1.0	0.41	ug/L			04/03/23 17:14	1
Toluene	**0.73**	**J**	1.0	0.51	ug/L			04/03/23 17:14	1
Ethylbenzene	**1.5**		1.0	0.74	ug/L			04/03/23 17:14	1
m-Xylene & p-Xylene	**1.0**	**J**	2.0	0.66	ug/L			04/03/23 17:14	1
o-Xylene	1.0	U	1.0	0.76	ug/L			04/03/23 17:14	1
Xylenes, Total	**1.0**	**J**	2.0	0.66	ug/L			04/03/23 17:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*80 - 120*		*04/03/23 17:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*04/03/23 17:14*	*1*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*04/03/23 17:14*	*1*
Dibromofluoromethane (Surr)	*95*		*75 - 123*		*04/03/23 17:14*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**4.0**	**J**	5.0	0.41	ug/L		04/04/23 08:29	04/06/23 16:38	1
Acenaphthylene	**1.1**	**J**	5.0	0.38	ug/L		04/04/23 08:29	04/06/23 16:38	1
Anthracene	**0.30**	**J**	5.0	0.28	ug/L		04/04/23 08:29	04/06/23 16:38	1
Benzo(a)anthracene	5.0	U	5.0	0.36	ug/L		04/04/23 08:29	04/06/23 16:38	1
Benzo(a)pyrene	5.0	U	5.0	0.47	ug/L		04/04/23 08:29	04/06/23 16:38	1
Benzo(b)fluoranthene	5.0	U	5.0	0.34	ug/L		04/04/23 08:29	04/06/23 16:38	1
Benzo(g,h,i) perylene	5.0	U	5.0	0.35	ug/L		04/04/23 08:29	04/06/23 16:38	1
Benzo(k)fluoranthene	5.0	U	5.0	0.73	ug/L		04/04/23 08:29	04/06/23 16:38	1
Chrysene	5.0	U	5.0	0.33	ug/L		04/04/23 08:29	04/06/23 16:38	1
Dibenz(a,h)anthracene	5.0	U	5.0	0.42	ug/L		04/04/23 08:29	04/06/23 16:38	1
Fluoranthene	**0.96**	**J**	5.0	0.40	ug/L		04/04/23 08:29	04/06/23 16:38	1
Fluorene	**2.6**	**J**	5.0	0.36	ug/L		04/04/23 08:29	04/06/23 16:38	1
Ideno(1,2,3-cd)pyrene	5.0	U	5.0	0.47	ug/L		04/04/23 08:29	04/06/23 16:38	1
Naphthalene	**1.6**	**J**	5.0	0.76	ug/L		04/04/23 08:29	04/06/23 16:38	1
Phenanthrene	**0.78**	**J**	5.0	0.44	ug/L		04/04/23 08:29	04/06/23 16:38	1
Pyrene	**0.52**	**J**	5.0	0.34	ug/L		04/04/23 08:29	04/06/23 16:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*90*		*48 - 120*	*04/04/23 08:29*	*04/06/23 16:38*	*1*
Nitrobenzene-d5 (Surr)	*81*		*46 - 120*	*04/04/23 08:29*	*04/06/23 16:38*	*1*
p-Terphenyl-d14 (Surr)	*90*		*60 - 148*	*04/04/23 08:29*	*04/06/23 16:38*	*1*

Surrogate Summary

Client: Parsons Corporation
Project/Site: Avangrid - McMaster Street

Job ID: 480-207436-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	DCA	BFB	DBFM
Lab Sample ID	Client Sample ID	(80-120)	(77-120)	(73-120)	(75-123)
480-207436-1	MW-PAR-08-03302023	99	101	103	95
LCS 480-663729/6	Lab Control Sample	101	108	108	101
MB 480-663729/8	Method Blank	100	103	104	97

Surrogate Legend

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

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPHd14
Lab Sample ID	Client Sample ID	(48-120)	(46-120)	(60-148)
480-207436-1	MW-PAR-08-03302023	90	81	90
LCS 480-663801/2-A	Lab Control Sample	90	80	98
LCSD 480-663801/3-A	Lab Control Sample Dup	92	85	101
MB 480-663801/1-A	Method Blank	64	57	85

Surrogate Legend

FBP = 2-Fluorobiphenyl
NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

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

Lab Sample ID: MB 480-663729/8
Matrix: Water
Analysis Batch: 663729

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.41	ug/L			04/03/23 16:42	1
Toluene	1.0	U	1.0	0.51	ug/L			04/03/23 16:42	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			04/03/23 16:42	1
m-Xylene & p-Xylene	2.0	U	2.0	0.66	ug/L			04/03/23 16:42	1
o-Xylene	1.0	U	1.0	0.76	ug/L			04/03/23 16:42	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			04/03/23 16:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*80 - 120*		*04/03/23 16:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*04/03/23 16:42*	*1*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*		*04/03/23 16:42*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 123*		*04/03/23 16:42*	*1*

Lab Sample ID: LCS 480-663729/6
Matrix: Water
Analysis Batch: 663729

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	27.3		ug/L		109	71 - 124
Toluene	25.0	25.9		ug/L		104	80 - 122
Ethylbenzene	25.0	27.7		ug/L		111	77 - 123
m-Xylene & p-Xylene	25.0	27.4		ug/L		110	76 - 122
o-Xylene	25.0	26.3		ug/L		105	76 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*108*		*77 - 120*
4-Bromofluorobenzene (Surr)	*108*		*73 - 120*
Dibromofluoromethane (Surr)	*101*		*75 - 123*

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

Lab Sample ID: MB 480-663801/1-A
Matrix: Water
Analysis Batch: 663977

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 663801

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	5.0	U	5.0	0.41	ug/L		04/04/23 08:29	04/05/23 14:35	1
Acenaphthylene	5.0	U	5.0	0.38	ug/L		04/04/23 08:29	04/05/23 14:35	1
Anthracene	5.0	U	5.0	0.28	ug/L		04/04/23 08:29	04/05/23 14:35	1
Benzo(a)anthracene	5.0	U	5.0	0.36	ug/L		04/04/23 08:29	04/05/23 14:35	1
Benzo(a)pyrene	5.0	U	5.0	0.47	ug/L		04/04/23 08:29	04/05/23 14:35	1
Benzo(b)fluoranthene	5.0	U	5.0	0.34	ug/L		04/04/23 08:29	04/05/23 14:35	1
Benzo(g,h,i) perylene	5.0	U	5.0	0.35	ug/L		04/04/23 08:29	04/05/23 14:35	1
Benzo(k)fluoranthene	5.0	U	5.0	0.73	ug/L		04/04/23 08:29	04/05/23 14:35	1
Chrysene	5.0	U	5.0	0.33	ug/L		04/04/23 08:29	04/05/23 14:35	1
Dibenz(a,h)anthracene	5.0	U	5.0	0.42	ug/L		04/04/23 08:29	04/05/23 14:35	1
Fluoranthene	5.0	U	5.0	0.40	ug/L		04/04/23 08:29	04/05/23 14:35	1

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

Lab Sample ID: MB 480-663801/1-A
Matrix: Water
Analysis Batch: 663977

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 663801

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	5.0	U	5.0	0.36	ug/L		04/04/23 08:29	04/05/23 14:35	1
Ideno(1,2,3-cd)pyrene	5.0	U	5.0	0.47	ug/L		04/04/23 08:29	04/05/23 14:35	1
Naphthalene	5.0	U	5.0	0.76	ug/L		04/04/23 08:29	04/05/23 14:35	1
Phenanthrene	5.0	U	5.0	0.44	ug/L		04/04/23 08:29	04/05/23 14:35	1
Pyrene	5.0	U	5.0	0.34	ug/L		04/04/23 08:29	04/05/23 14:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*64*		*48 - 120*	*04/04/23 08:29*	*04/05/23 14:35*	*1*
Nitrobenzene-d5 (Surr)	*57*		*46 - 120*	*04/04/23 08:29*	*04/05/23 14:35*	*1*
p-Terphenyl-d14 (Surr)	*85*		*60 - 148*	*04/04/23 08:29*	*04/05/23 14:35*	*1*

Lab Sample ID: LCS 480-663801/2-A
Matrix: Water
Analysis Batch: 663977

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 663801

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	32.0	29.5		ug/L		92	60 - 120
Acenaphthylene	32.0	29.8		ug/L		93	63 - 120
Anthracene	32.0	32.1		ug/L		100	67 - 120
Benzo(a)anthracene	32.0	31.4		ug/L		98	70 - 121
Benzo(a)pyrene	32.0	34.1		ug/L		106	60 - 123
Benzo(b)fluoranthene	32.0	34.1		ug/L		106	66 - 126
Benzo(g,h,i) perylene	32.0	33.5		ug/L		105	66 - 150
Benzo(k)fluoranthene	32.0	33.5		ug/L		105	65 - 124
Chrysene	32.0	31.7		ug/L		99	69 - 120
Dibenz(a,h)anthracene	32.0	33.4		ug/L		104	65 - 135
Fluoranthene	32.0	34.2		ug/L		107	69 - 126
Fluorene	32.0	30.5		ug/L		95	66 - 120
Ideno(1,2,3-cd)pyrene	32.0	35.1		ug/L		110	69 - 146
Naphthalene	32.0	30.3		ug/L		95	57 - 120
Phenanthrene	32.0	29.9		ug/L		93	68 - 120
Pyrene	32.0	30.6		ug/L		96	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*90*		*48 - 120*
Nitrobenzene-d5 (Surr)	*80*		*46 - 120*
p-Terphenyl-d14 (Surr)	*98*		*60 - 148*

Lab Sample ID: LCSD 480-663801/3-A
Matrix: Water
Analysis Batch: 663977

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 663801

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acenaphthene	32.0	29.9		ug/L		93	60 - 120	1	24
Acenaphthylene	32.0	30.8		ug/L		96	63 - 120	3	18
Anthracene	32.0	34.6		ug/L		108	67 - 120	8	15
Benzo(a)anthracene	32.0	33.4		ug/L		104	70 - 121	6	15
Benzo(a)pyrene	32.0	35.9		ug/L		112	60 - 123	5	15

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

Lab Sample ID: LCSD 480-663801/3-A
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 663977
Prep Batch: 663801

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzo(b)fluoranthene			32.0	36.6		ug/L		114	66 - 126	7	15
Benzo(g,h,i) perylene			32.0	35.3		ug/L		110	66 - 150	5	15
Benzo(k)fluoranthene			32.0	34.9		ug/L		109	65 - 124	4	22
Chrysene			32.0	33.3		ug/L		104	69 - 120	5	15
Dibenz(a,h)anthracene			32.0	35.1		ug/L		110	65 - 135	5	15
Fluoranthene			32.0	37.1		ug/L		116	69 - 126	8	15
Fluorene			32.0	31.6		ug/L		99	66 - 120	3	15
Ideno(1,2,3-cd)pyrene			32.0	37.1		ug/L		116	69 - 146	5	15
Naphthalene			32.0	32.3		ug/L		101	57 - 120	6	29
Phenanthrene			32.0	32.9		ug/L		103	68 - 120	10	15
Pyrene			32.0	33.1		ug/L		104	70 - 125	8	19

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*92*		*48 - 120*
Nitrobenzene-d5 (Surr)	*85*		*46 - 120*
p-Terphenyl-d14 (Surr)	*101*		*60 - 148*

QC Association Summary

Client: Parsons Corporation
Job ID: 480-207436-1
Project/Site: Avangrid - McMaster Street

GC/MS VOA

Analysis Batch: 663729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207436-1	MW-PAR-08-03302023	Total/NA	Water	8260C	
MB 480-663729/8	Method Blank	Total/NA	Water	8260C	
LCS 480-663729/6	Lab Control Sample	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 663801

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207436-1	MW-PAR-08-03302023	Total/NA	Water	3510C	
MB 480-663801/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-663801/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 480-663801/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 663977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-663801/1-A	Method Blank	Total/NA	Water	8270D	663801
LCS 480-663801/2-A	Lab Control Sample	Total/NA	Water	8270D	663801
LCSD 480-663801/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	663801

Analysis Batch: 664139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-207436-1	MW-PAR-08-03302023	Total/NA	Water	8270D	663801

Lab Chronicle

Client: Parsons Corporation
Job ID: 480-207436-1
Project/Site: Avangrid - McMaster Street

Client Sample ID: MW-PAR-08-03302023
Lab Sample ID: 480-207436-1
Date Collected: 03/30/23 13:30
Matrix: Water
Date Received: 03/31/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	663729	ATG	EET BUF	04/03/23 17:14
Total/NA	Prep	3510C			663801	MS	EET BUF	04/04/23 08:29
Total/NA	Analysis	8270D		1	664139	JMM	EET BUF	04/06/23 16:38

Laboratory References:

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

Accreditation/Certification Summary

Client: Parsons Corporation
Job ID: 480-207436-1
Project/Site: Avangrid - McMaster Street

Laboratory: Eurofins Buffalo

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-24

Method Summary

Client: Parsons Corporation
Job ID: 480-207436-1
Project/Site: Avangrid - McMaster Street

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

Protocol References:

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

Laboratory References:

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

Sample Summary

Client: Parsons Corporation
Job ID: 480-207436-1
Project/Site: Avangrid - McMaster Street

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-207436-1	MW-PAR-08-03302023	Water	03/30/23 13:30	03/31/23 10:00

10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

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Client Information	Sampler: Zack Cornish	Lab PM: Schove, John R	Carrier Tracking No(s):	COC No: 480-182835-38378.1
Client Contact: Cathy Adamitis	Phone: 607-354-6482	E-Mail: John.Schove@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: Parsons Corporation	PWSID:			Job #:
Address: 301 Plainfield Road Suite 350	Due Date Requested:			
City: Syracuse	TAT Requested (days): STANDARD			
State, Zip: NY, 13212	Compliance Project: Δ Yes Δ No			
Phone:	PO #: 452562.452563..60214.07			
Email: catherine.adamitis@parsons.com	WO #: 452562.02000			
Project Name: Avangrid - McMaster Street	Project #: 48024388			
Site: McMaster	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

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 - PAH Semivolatiles	8260C - BTEX	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	A		
MW-PAR-08-03302023	3/30/23	1330	G	Water	N	N	2	3	5	

480-207436 Chain of Custody

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Zack Cornish / Zack Cornish	3/30/23 / 1700	PARSONS	[illegible]	3/31/23 1000	TA
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 4.9 # ICE

Ver: 06/08/2021

4/10/2023

Login Sample Receipt Checklist

Client: Parsons Corporation

Job Number: 480-207436-1

Login Number: 207436

List Source: Eurofins Buffalo

List Number: 1

Creator: Sabuda, Brendan D

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	4.9 #1 ICE
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	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Cathy Adamitis
Parsons Corporation
301 Plainfield Road
Suite 350
Syracuse, New York 13212

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JOB DESCRIPTION

Avangrid - McMaster Street

JOB NUMBER

480-215302-1

Eurofins Buffalo
10 Hazelwood Drive
Amherst NY 14228-2298

See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization

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Definitions/Glossary

Client: Parsons Corporation
Job ID: 480-215302-1
Project/Site: Avangrid - McMaster Street

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

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.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.
U	Indicates the analyte was analyzed for but not detected.

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)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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

Job ID: 480-215302-1

Laboratory: Eurofins Buffalo

Narrative

Job Narrative
480-215302-1

Receipt
The samples were received on 12/1/2023 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.8º C.

GC/MS VOA
Method 8260C: Due to the coelution of Ethyl Acetate with 2-Butanone in the full spike solution, these analytes exceeded control limits in the laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) associated with batch 480-694018 . The following sample was affected : TB-11302023 (480-215302-3).

Method 8260C: The laboratory control sample (LCS) for analytical batch 480-694204 recovered outside control limits for the following analyte: Methyl acetate. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported. The following sample was affected : IDW-11302023 (480-215302-1).

Method 8260C: Due to the coelution of Ethyl Acetate with 2-Butanone in the full spike solution, these analytes exceeded control limits in the laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) associated with batch 480-694204 . The following sample was affected : IDW-11302023 (480-215302-1).

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 480-694261 recovered outside acceptance criteria, low biased, for 2,4-Dinitrophenol, 4,6-Dinitro-2-methylphenol and Pentachlorophenol. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Method 8270D: The minimum response factor (RF) criteria for the continuing calibration verification (CCV) analyzed in batch 480-694261 was outside criteria for the following analyte(s): Pentachlorophenol. As indicated in the reference method, sample analysis may proceed; however, any detection or non-detection for the affected analyte(s) is considered estimated.

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

GC Semi VOA
Method 8081B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 480-694010 and analytical batch 480-694102 recovered outside control limits for the following analytes: Endosulfan I and trans-Chlordane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8151A: The following sample was diluted due to the nature of the sample matrix: IDW-11302023 (480-215302-1). As such, surrogate recoveries are below the calibration range, estimated and not representative. 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.

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

General Chemistry
Methods 9040B, 9040C: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: IDW-11302023 (480-215302-1).

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

Organic Prep
Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate

Job ID: 480-215302-1 (Continued)

Laboratory: Eurofins Buffalo (Continued)

(MS/MSD/DUP) associated with preparation batch 480-694005.

Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 480-694010.

Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 480-694196.

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

Detection Summary

Client: Parsons Corporation
Project/Site: Avangrid - McMaster Street

Job ID: 480-215302-1

Client Sample ID: IDW-11302023 — Lab Sample ID: 480-215302-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.7		1.0	0.41	ug/L	1		8260C	Total/NA
beta-BHC	0.042	J	0.050	0.025	ug/L	1		8081B	Total/NA
delta-BHC	0.015	J	0.050	0.010	ug/L	1		8081B	Total/NA
Barium	0.30		0.0020	0.00070	mg/L	1		6010C	Total/NA
Lead	0.023		0.010	0.0030	mg/L	1		6010C	Total/NA
Flashpoint	>180		50.0	50.0	Degrees F	1		1010A	Total/NA
pH	7.70	HF	0.100	0.100	SU	1		9040C	Total/NA
Temperature	20.9	HF	0.00100	0.00100	Degrees C	1		9040C	Total/NA

Client Sample ID: MW-PAR-08-113023 — Lab Sample ID: 480-215302-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	28		1.0	0.41	ug/L	1		8260C	Total/NA
Toluene	0.58	J	1.0	0.51	ug/L	1		8260C	Total/NA
Ethylbenzene	2.9		1.0	0.74	ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	2.6		2.0	0.66	ug/L	1		8260C	Total/NA
o-Xylene	1.3		1.0	0.76	ug/L	1		8260C	Total/NA
Xylenes, Total	3.9		2.0	0.66	ug/L	1		8260C	Total/NA
Acenaphthene	8.0		5.0	0.41	ug/L	1		8270D	Total/NA
Acenaphthylene	3.1	J	5.0	0.38	ug/L	1		8270D	Total/NA
Anthracene	0.98	J	5.0	0.28	ug/L	1		8270D	Total/NA
Fluoranthene	1.4	J	5.0	0.40	ug/L	1		8270D	Total/NA
Fluorene	4.3	J	5.0	0.36	ug/L	1		8270D	Total/NA
Naphthalene	6.2		5.0	0.76	ug/L	1		8270D	Total/NA
Phenanthrene	5.1		5.0	0.44	ug/L	1		8270D	Total/NA
Pyrene	0.89	J	5.0	0.34	ug/L	1		8270D	Total/NA

Client Sample ID: TB-11302023 — Lab Sample ID: 480-215302-3

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Parsons Corporation
Project/Site: Avangrid - McMaster Street

Job ID: 480-215302-1

Client Sample ID: IDW-11302023
Date Collected: 11/30/23 10:30
Date Received: 12/01/23 10:30

Lab Sample ID: 480-215302-1
Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			12/04/23 18:00	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			12/04/23 18:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			12/04/23 18:00	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/04/23 18:00	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			12/04/23 18:00	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/04/23 18:00	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/04/23 18:00	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			12/04/23 18:00	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			12/04/23 18:00	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			12/04/23 18:00	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/04/23 18:00	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			12/04/23 18:00	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			12/04/23 18:00	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			12/04/23 18:00	1
2-Butanone (MEK)	10	U *+	10	1.3	ug/L			12/04/23 18:00	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			12/04/23 18:00	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			12/04/23 18:00	1
Acetone	10	U	10	3.0	ug/L			12/04/23 18:00	1
Benzene	**1.7**		1.0	0.41	ug/L			12/04/23 18:00	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			12/04/23 18:00	1
Bromoform	1.0	U	1.0	0.26	ug/L			12/04/23 18:00	1
Bromomethane	1.0	U	1.0	0.69	ug/L			12/04/23 18:00	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			12/04/23 18:00	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			12/04/23 18:00	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			12/04/23 18:00	1
Chloroethane	1.0	U	1.0	0.32	ug/L			12/04/23 18:00	1
Chloroform	1.0	U	1.0	0.34	ug/L			12/04/23 18:00	1
Chloromethane	1.0	U	1.0	0.35	ug/L			12/04/23 18:00	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			12/04/23 18:00	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			12/04/23 18:00	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			12/04/23 18:00	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			12/04/23 18:00	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			12/04/23 18:00	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			12/04/23 18:00	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			12/04/23 18:00	1
Methyl acetate	2.5	U *+	2.5	1.3	ug/L			12/04/23 18:00	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/04/23 18:00	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			12/04/23 18:00	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			12/04/23 18:00	1
Styrene	1.0	U	1.0	0.73	ug/L			12/04/23 18:00	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			12/04/23 18:00	1
Toluene	1.0	U	1.0	0.51	ug/L			12/04/23 18:00	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			12/04/23 18:00	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			12/04/23 18:00	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			12/04/23 18:00	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			12/04/23 18:00	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			12/04/23 18:00	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			12/04/23 18:00	1

Client: Parsons Corporation
Project/Site: Avangrid - McMaster Street

Job ID: 480-215302-1

Client Sample ID: IDW-11302023
Date Collected: 11/30/23 10:30
Date Received: 12/01/23 10:30

Lab Sample ID: 480-215302-1
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*		*12/04/23 18:00*	*1*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*12/04/23 18:00*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 123*		*12/04/23 18:00*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*12/04/23 18:00*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	5.0	U	5.0	0.48	ug/L		12/01/23 14:13	12/05/23 16:36	1
2,4,6-Trichlorophenol	5.0	U	5.0	0.61	ug/L		12/01/23 14:13	12/05/23 16:36	1
2,4-Dichlorophenol	5.0	U	5.0	0.51	ug/L		12/01/23 14:13	12/05/23 16:36	1
2,4-Dimethylphenol	5.0	U	5.0	0.50	ug/L		12/01/23 14:13	12/05/23 16:36	1
2,4-Dinitrophenol	10	U	10	2.2	ug/L		12/01/23 14:13	12/05/23 16:36	1
2,4-Dinitrotoluene	5.0	U	5.0	0.45	ug/L		12/01/23 14:13	12/05/23 16:36	1
2,6-Dinitrotoluene	5.0	U	5.0	0.40	ug/L		12/01/23 14:13	12/05/23 16:36	1
2-Chloronaphthalene	5.0	U	5.0	0.46	ug/L		12/01/23 14:13	12/05/23 16:36	1
2-Chlorophenol	5.0	U	5.0	0.53	ug/L		12/01/23 14:13	12/05/23 16:36	1
2-Methylnaphthalene	5.0	U	5.0	0.60	ug/L		12/01/23 14:13	12/05/23 16:36	1
2-Methylphenol	5.0	U	5.0	0.40	ug/L		12/01/23 14:13	12/05/23 16:36	1
2-Nitroaniline	10	U	10	0.42	ug/L		12/01/23 14:13	12/05/23 16:36	1
2-Nitrophenol	5.0	U	5.0	0.48	ug/L		12/01/23 14:13	12/05/23 16:36	1
3,3'-Dichlorobenzidine	5.0	U	5.0	0.40	ug/L		12/01/23 14:13	12/05/23 16:36	1
3-Nitroaniline	10	U	10	0.48	ug/L		12/01/23 14:13	12/05/23 16:36	1
4,6-Dinitro-2-methylphenol	10	U	10	2.2	ug/L		12/01/23 14:13	12/05/23 16:36	1
4-Bromophenyl phenyl ether	5.0	U	5.0	0.45	ug/L		12/01/23 14:13	12/05/23 16:36	1
4-Chloro-3-methylphenol	5.0	U	5.0	0.45	ug/L		12/01/23 14:13	12/05/23 16:36	1
4-Chloroaniline	5.0	U	5.0	0.59	ug/L		12/01/23 14:13	12/05/23 16:36	1
4-Chlorophenyl phenyl ether	5.0	U	5.0	0.35	ug/L		12/01/23 14:13	12/05/23 16:36	1
4-Methylphenol	10	U	10	0.36	ug/L		12/01/23 14:13	12/05/23 16:36	1
4-Nitroaniline	10	U	10	0.25	ug/L		12/01/23 14:13	12/05/23 16:36	1
4-Nitrophenol	10	U	10	1.5	ug/L		12/01/23 14:13	12/05/23 16:36	1
Acenaphthene	5.0	U	5.0	0.41	ug/L		12/01/23 14:13	12/05/23 16:36	1
Acenaphthylene	5.0	U	5.0	0.38	ug/L		12/01/23 14:13	12/05/23 16:36	1
Acetophenone	5.0	U	5.0	0.54	ug/L		12/01/23 14:13	12/05/23 16:36	1
Anthracene	5.0	U	5.0	0.28	ug/L		12/01/23 14:13	12/05/23 16:36	1
Atrazine	5.0	U	5.0	0.46	ug/L		12/01/23 14:13	12/05/23 16:36	1
Benzaldehyde	5.0	U	5.0	0.27	ug/L		12/01/23 14:13	12/05/23 16:36	1
Benzo(a)anthracene	5.0	U	5.0	0.36	ug/L		12/01/23 14:13	12/05/23 16:36	1
Benzo(a)pyrene	5.0	U	5.0	0.47	ug/L		12/01/23 14:13	12/05/23 16:36	1
Benzo(b)fluoranthene	5.0	U	5.0	0.34	ug/L		12/01/23 14:13	12/05/23 16:36	1
Benzo(g,h,i) perylene	5.0	U	5.0	0.35	ug/L		12/01/23 14:13	12/05/23 16:36	1
Benzo(k)fluoranthene	5.0	U	5.0	0.73	ug/L		12/01/23 14:13	12/05/23 16:36	1
Biphenyl	5.0	U	5.0	0.65	ug/L		12/01/23 14:13	12/05/23 16:36	1
bis (2-chloroisopropyl) ether	5.0	U	5.0	0.52	ug/L		12/01/23 14:13	12/05/23 16:36	1
Bis(2-chloroethoxy)methane	5.0	U	5.0	0.35	ug/L		12/01/23 14:13	12/05/23 16:36	1
Bis(2-chloroethyl)ether	5.0	U	5.0	0.40	ug/L		12/01/23 14:13	12/05/23 16:36	1
Bis(2-ethylhexyl) phthalate	5.0	U	5.0	2.2	ug/L		12/01/23 14:13	12/05/23 16:36	1
Butyl benzyl phthalate	5.0	U	5.0	1.0	ug/L		12/01/23 14:13	12/05/23 16:36	1
Caprolactam	5.0	U	5.0	2.2	ug/L		12/01/23 14:13	12/05/23 16:36	1
Carbazole	5.0	U	5.0	0.30	ug/L		12/01/23 14:13	12/05/23 16:36	1
Chrysene	5.0	U	5.0	0.33	ug/L		12/01/23 14:13	12/05/23 16:36	1

Client Sample ID: IDW-11302023
Lab Sample ID: 480-215302-1
Date Collected: 11/30/23 10:30
Matrix: Water
Date Received: 12/01/23 10:30

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	5.0	U	5.0	0.42	ug/L		12/01/23 14:13	12/05/23 16:36	1
Dibenzofuran	10	U	10	0.51	ug/L		12/01/23 14:13	12/05/23 16:36	1
Diethyl phthalate	5.0	U	5.0	0.22	ug/L		12/01/23 14:13	12/05/23 16:36	1
Dimethyl phthalate	5.0	U	5.0	0.36	ug/L		12/01/23 14:13	12/05/23 16:36	1
Di-n-butyl phthalate	5.0	U	5.0	0.31	ug/L		12/01/23 14:13	12/05/23 16:36	1
Di-n-octyl phthalate	5.0	U	5.0	0.47	ug/L		12/01/23 14:13	12/05/23 16:36	1
Fluoranthene	5.0	U	5.0	0.40	ug/L		12/01/23 14:13	12/05/23 16:36	1
Fluorene	5.0	U	5.0	0.36	ug/L		12/01/23 14:13	12/05/23 16:36	1
Hexachlorobenzene	5.0	U	5.0	0.51	ug/L		12/01/23 14:13	12/05/23 16:36	1
Hexachlorobutadiene	5.0	U	5.0	0.68	ug/L		12/01/23 14:13	12/05/23 16:36	1
Hexachlorocyclopentadiene	5.0	U	5.0	0.59	ug/L		12/01/23 14:13	12/05/23 16:36	1
Hexachloroethane	5.0	U	5.0	0.59	ug/L		12/01/23 14:13	12/05/23 16:36	1
Ideno(1,2,3-cd)pyrene	5.0	U	5.0	0.47	ug/L		12/01/23 14:13	12/05/23 16:36	1
Isophorone	5.0	U	5.0	0.43	ug/L		12/01/23 14:13	12/05/23 16:36	1
Naphthalene	5.0	U	5.0	0.76	ug/L		12/01/23 14:13	12/05/23 16:36	1
Nitrobenzene	5.0	U	5.0	0.29	ug/L		12/01/23 14:13	12/05/23 16:36	1
N-Nitrosodi-n-propylamine	5.0	U	5.0	0.54	ug/L		12/01/23 14:13	12/05/23 16:36	1
N-Nitrosodiphenylamine	5.0	U	5.0	0.51	ug/L		12/01/23 14:13	12/05/23 16:36	1
Pentachlorophenol	10	U	10	2.2	ug/L		12/01/23 14:13	12/05/23 16:36	1
Phenanthrene	5.0	U	5.0	0.44	ug/L		12/01/23 14:13	12/05/23 16:36	1
Phenol	5.0	U	5.0	0.39	ug/L		12/01/23 14:13	12/05/23 16:36	1
Pyrene	5.0	U	5.0	0.34	ug/L		12/01/23 14:13	12/05/23 16:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*80*		*41 - 120*	*12/01/23 14:13*	*12/05/23 16:36*	*1*
2-Fluorobiphenyl	*77*		*48 - 120*	*12/01/23 14:13*	*12/05/23 16:36*	*1*
2-Fluorophenol	*53*		*35 - 120*	*12/01/23 14:13*	*12/05/23 16:36*	*1*
Nitrobenzene-d5 (Surr)	*70*		*46 - 120*	*12/01/23 14:13*	*12/05/23 16:36*	*1*
Phenol-d5	*41*		*22 - 120*	*12/01/23 14:13*	*12/05/23 16:36*	*1*
p-Terphenyl-d14 (Surr)	*65*		*60 - 148*	*12/01/23 14:13*	*12/05/23 16:36*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.050	U	0.050	0.0092	ug/L		12/01/23 14:18	12/04/23 10:51	1
4,4'-DDE	0.050	U	0.050	0.012	ug/L		12/01/23 14:18	12/04/23 10:51	1
4,4'-DDT	0.050	U	0.050	0.011	ug/L		12/01/23 14:18	12/04/23 10:51	1
Aldrin	0.050	U	0.050	0.0081	ug/L		12/01/23 14:18	12/04/23 10:51	1
alpha-BHC	0.050	U	0.050	0.0077	ug/L		12/01/23 14:18	12/04/23 10:51	1
beta-BHC	**0.042**	**J**	0.050	0.025	ug/L		12/01/23 14:18	12/04/23 10:51	1
cis-Chlordane	0.050	U	0.050	0.015	ug/L		12/01/23 14:18	12/04/23 10:51	1
delta-BHC	**0.015**	**J**	0.050	0.010	ug/L		12/01/23 14:18	12/04/23 10:51	1
Dieldrin	0.050	U	0.050	0.0098	ug/L		12/01/23 14:18	12/04/23 10:51	1
Endosulfan I	0.050	U *+	0.050	0.011	ug/L		12/01/23 14:18	12/04/23 10:51	1
Endosulfan II	0.050	U	0.050	0.012	ug/L		12/01/23 14:18	12/04/23 10:51	1
Endosulfan sulfate	0.050	U	0.050	0.016	ug/L		12/01/23 14:18	12/04/23 10:51	1
Endrin	0.050	U	0.050	0.014	ug/L		12/01/23 14:18	12/04/23 10:51	1
Endrin aldehyde	0.050	U	0.050	0.016	ug/L		12/01/23 14:18	12/04/23 10:51	1
Endrin ketone	0.050	U	0.050	0.012	ug/L		12/01/23 14:18	12/04/23 10:51	1
gamma-BHC (Lindane)	0.050	U	0.050	0.0080	ug/L		12/01/23 14:18	12/04/23 10:51	1
Heptachlor	0.050	U	0.050	0.0085	ug/L		12/01/23 14:18	12/04/23 10:51	1

Client Sample ID: IDW-11302023
Date Collected: 11/30/23 10:30
Date Received: 12/01/23 10:30

Lab Sample ID: 480-215302-1
Matrix: Water

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor epoxide	0.050	U	0.050	0.0074	ug/L		12/01/23 14:18	12/04/23 10:51	1
Methoxychlor	0.050	U	0.050	0.014	ug/L		12/01/23 14:18	12/04/23 10:51	1
Toxaphene	0.50	U	0.50	0.12	ug/L		12/01/23 14:18	12/04/23 10:51	1
trans-Chlordane	0.050	U *+	0.050	0.011	ug/L		12/01/23 14:18	12/04/23 10:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*58*		*20 - 120*	*12/01/23 14:18*	*12/04/23 10:51*	*1*
DCB Decachlorobiphenyl	*47*		*20 - 120*	*12/01/23 14:18*	*12/04/23 10:51*	*1*
Tetrachloro-m-xylene	*85*		*44 - 120*	*12/01/23 14:18*	*12/04/23 10:51*	*1*
Tetrachloro-m-xylene	*71*		*44 - 120*	*12/01/23 14:18*	*12/04/23 10:51*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.52	U	0.52	0.18	ug/L		12/04/23 14:21	12/05/23 16:15	1
PCB-1221	0.52	U	0.52	0.18	ug/L		12/04/23 14:21	12/05/23 16:15	1
PCB-1232	0.52	U	0.52	0.18	ug/L		12/04/23 14:21	12/05/23 16:15	1
PCB-1242	0.52	U	0.52	0.18	ug/L		12/04/23 14:21	12/05/23 16:15	1
PCB-1248	0.52	U	0.52	0.18	ug/L		12/04/23 14:21	12/05/23 16:15	1
PCB-1254	0.52	U	0.52	0.26	ug/L		12/04/23 14:21	12/05/23 16:15	1
PCB-1260	0.52	U	0.52	0.26	ug/L		12/04/23 14:21	12/05/23 16:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*35*		*19 - 120*	*12/04/23 14:21*	*12/05/23 16:15*	*1*
DCB Decachlorobiphenyl	*52*		*19 - 120*	*12/04/23 14:21*	*12/05/23 16:15*	*1*
Tetrachloro-m-xylene	*69*		*39 - 121*	*12/04/23 14:21*	*12/05/23 16:15*	*1*
Tetrachloro-m-xylene	*77*		*39 - 121*	*12/04/23 14:21*	*12/05/23 16:15*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	9.5	U	9.5	1.3	ug/L		12/05/23 09:10	12/07/23 08:46	20
2,4-D	9.5	U	9.5	3.3	ug/L		12/05/23 09:10	12/07/23 08:46	20
Dichlorprop	9.5	U	9.5	2.2	ug/L		12/05/23 09:10	12/07/23 08:46	20
Dinoseb	9.5	U	9.5	2.6	ug/L		12/05/23 09:10	12/07/23 08:46	20
Pentachlorophenol	9.5	U	9.5	0.93	ug/L		12/05/23 09:10	12/07/23 08:46	20
Picloram	9.5	U	9.5	1.4	ug/L		12/05/23 09:10	12/07/23 08:46	20
Silvex (2,4,5-TP)	9.5	U	9.5	0.95	ug/L		12/05/23 09:10	12/07/23 08:46	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*368*	*S1+*	*21 - 143*	*12/05/23 09:10*	*12/07/23 08:46*	*20*
2,4-Dichlorophenylacetic acid	*247*	*S1+*	*21 - 143*	*12/05/23 09:10*	*12/07/23 08:46*	*20*

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.015	U	0.015	0.0056	mg/L		12/04/23 08:11	12/04/23 23:34	1
Barium	**0.30**		0.0020	0.00070	mg/L		12/04/23 08:11	12/04/23 23:34	1
Cadmium	0.0020	U	0.0020	0.00050	mg/L		12/04/23 08:11	12/04/23 23:34	1
Chromium	0.0040	U	0.0040	0.0010	mg/L		12/04/23 08:11	12/04/23 23:34	1
Lead	**0.023**		0.010	0.0030	mg/L		12/04/23 08:11	12/04/23 23:34	1
Selenium	0.025	U	0.025	0.0087	mg/L		12/04/23 08:11	12/06/23 15:42	1
Silver	0.0060	U	0.0060	0.0017	mg/L		12/04/23 08:11	12/06/23 15:42	1

Client Sample Results

Client: Parsons Corporation
Project/Site: Avangrid - McMaster Street

Job ID: 480-215302-1

Client Sample ID: IDW-11302023

Date Collected: 11/30/23 10:30
Date Received: 12/01/23 10:30

Lab Sample ID: 480-215302-1

Matrix: Water

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020	0.000043	mg/L		12/04/23 11:34	12/04/23 14:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive (SW846 9012)	10.0	U	10.0	10.0	mg/L		12/06/23 10:15	12/06/23 16:02	1
Sulfide, Reactive (SW846 9034)	10.0	U	10.0	10.0	mg/L		12/06/23 10:15	12/07/23 11:50	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint (SW846 1010A)	**>180**		50.0	50.0	Degrees F			12/04/23 10:18	1
pH (SW846 9040C)	**7.70**	**HF**	0.100	0.100	SU			12/04/23 15:26	1
Temperature (SW846 9040C)	**20.9**	**HF**	0.00100	0.00100	Degrees C			12/04/23 15:26	1

Client Sample ID: MW-PAR-08-113023

Date Collected: 11/30/23 11:00
Date Received: 12/01/23 10:30

Lab Sample ID: 480-215302-2

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**28**		1.0	0.41	ug/L			12/04/23 18:22	1
Toluene	**0.58**	**J**	1.0	0.51	ug/L			12/04/23 18:22	1
Ethylbenzene	**2.9**		1.0	0.74	ug/L			12/04/23 18:22	1
m-Xylene & p-Xylene	**2.6**		2.0	0.66	ug/L			12/04/23 18:22	1
o-Xylene	**1.3**		1.0	0.76	ug/L			12/04/23 18:22	1
Xylenes, Total	**3.9**		2.0	0.66	ug/L			12/04/23 18:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*80 - 120*		*12/04/23 18:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*		*12/04/23 18:22*	*1*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*12/04/23 18:22*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 123*		*12/04/23 18:22*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**8.0**		5.0	0.41	ug/L		12/01/23 14:13	12/05/23 17:04	1
Acenaphthylene	**3.1**	**J**	5.0	0.38	ug/L		12/01/23 14:13	12/05/23 17:04	1
Anthracene	**0.98**	**J**	5.0	0.28	ug/L		12/01/23 14:13	12/05/23 17:04	1
Benzo(a)anthracene	5.0	U	5.0	0.36	ug/L		12/01/23 14:13	12/05/23 17:04	1
Benzo(a)pyrene	5.0	U	5.0	0.47	ug/L		12/01/23 14:13	12/05/23 17:04	1
Benzo(b)fluoranthene	5.0	U	5.0	0.34	ug/L		12/01/23 14:13	12/05/23 17:04	1
Benzo(g,h,i) perylene	5.0	U	5.0	0.35	ug/L		12/01/23 14:13	12/05/23 17:04	1
Benzo(k)fluoranthene	5.0	U	5.0	0.73	ug/L		12/01/23 14:13	12/05/23 17:04	1
Chrysene	5.0	U	5.0	0.33	ug/L		12/01/23 14:13	12/05/23 17:04	1
Dibenz(a,h)anthracene	5.0	U	5.0	0.42	ug/L		12/01/23 14:13	12/05/23 17:04	1
Fluoranthene	**1.4**	**J**	5.0	0.40	ug/L		12/01/23 14:13	12/05/23 17:04	1
Fluorene	**4.3**	**J**	5.0	0.36	ug/L		12/01/23 14:13	12/05/23 17:04	1
Ideno(1,2,3-cd)pyrene	5.0	U	5.0	0.47	ug/L		12/01/23 14:13	12/05/23 17:04	1
Naphthalene	**6.2**		5.0	0.76	ug/L		12/01/23 14:13	12/05/23 17:04	1
Phenanthrene	**5.1**		5.0	0.44	ug/L		12/01/23 14:13	12/05/23 17:04	1
Pyrene	**0.89**	**J**	5.0	0.34	ug/L		12/01/23 14:13	12/05/23 17:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*90*		*48 - 120*	*12/01/23 14:13*	*12/05/23 17:04*	*1*
Nitrobenzene-d5 (Surr)	*80*		*46 - 120*	*12/01/23 14:13*	*12/05/23 17:04*	*1*
p-Terphenyl-d14 (Surr)	*81*		*60 - 148*	*12/01/23 14:13*	*12/05/23 17:04*	*1*

Client: Parsons Corporation
Project/Site: Avangrid - McMaster Street

Job ID: 480-215302-1

Client Sample ID: TB-11302023
Date Collected: 11/30/23 09:00
Date Received: 12/01/23 10:30

Lab Sample ID: 480-215302-3
Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			12/02/23 01:17	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			12/02/23 01:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			12/02/23 01:17	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/02/23 01:17	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			12/02/23 01:17	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/02/23 01:17	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/02/23 01:17	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			12/02/23 01:17	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			12/02/23 01:17	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			12/02/23 01:17	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/02/23 01:17	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			12/02/23 01:17	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			12/02/23 01:17	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			12/02/23 01:17	1
2-Butanone (MEK)	10	U *+	10	1.3	ug/L			12/02/23 01:17	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			12/02/23 01:17	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			12/02/23 01:17	1
Acetone	10	U	10	3.0	ug/L			12/02/23 01:17	1
Benzene	1.0	U	1.0	0.41	ug/L			12/02/23 01:17	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			12/02/23 01:17	1
Bromoform	1.0	U	1.0	0.26	ug/L			12/02/23 01:17	1
Bromomethane	1.0	U	1.0	0.69	ug/L			12/02/23 01:17	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			12/02/23 01:17	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			12/02/23 01:17	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			12/02/23 01:17	1
Chloroethane	1.0	U	1.0	0.32	ug/L			12/02/23 01:17	1
Chloroform	1.0	U	1.0	0.34	ug/L			12/02/23 01:17	1
Chloromethane	1.0	U	1.0	0.35	ug/L			12/02/23 01:17	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			12/02/23 01:17	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			12/02/23 01:17	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			12/02/23 01:17	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			12/02/23 01:17	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			12/02/23 01:17	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			12/02/23 01:17	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			12/02/23 01:17	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			12/02/23 01:17	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/02/23 01:17	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			12/02/23 01:17	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			12/02/23 01:17	1
Styrene	1.0	U	1.0	0.73	ug/L			12/02/23 01:17	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			12/02/23 01:17	1
Toluene	1.0	U	1.0	0.51	ug/L			12/02/23 01:17	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			12/02/23 01:17	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			12/02/23 01:17	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			12/02/23 01:17	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			12/02/23 01:17	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			12/02/23 01:17	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			12/02/23 01:17	1

Client: Parsons Corporation
Job ID: 480-215302-1
Project/Site: Avangrid - McMaster Street

Client Sample ID: TB-11302023
Lab Sample ID: 480-215302-3
Date Collected: 11/30/23 09:00
Matrix: Water
Date Received: 12/01/23 10:30

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		12/02/23 01:17	1
4-Bromofluorobenzene (Surr)	100		73 - 120		12/02/23 01:17	1
Dibromofluoromethane (Surr)	100		75 - 123		12/02/23 01:17	1
Toluene-d8 (Surr)	100		80 - 120		12/02/23 01:17	1

Surrogate Summary

Client: Parsons Corporation
Project/Site: Avangrid - McMaster Street

Job ID: 480-215302-1

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

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(75-123)	(80-120)
480-215302-1	IDW-11302023	98	103	99	99
480-215302-2	MW-PAR-08-113023	99	101	99	97
480-215302-3	TB-11302023	100	100	100	100
LCS 480-694018/6	Lab Control Sample	104	100	100	98
LCS 480-694204/6	Lab Control Sample	104	101	99	98
MB 480-694018/9	Method Blank	100	99	99	100
MB 480-694204/9	Method Blank	99	101	100	100

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**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(41-120)	(48-120)	(35-120)	(46-120)	(22-120)	(60-148)
480-215302-1	IDW-11302023	80	77	53	70	41	65
480-215302-2	MW-PAR-08-113023		90		80		81
LCS 480-694005/2-A	Lab Control Sample	95	78	58	74	47	96
LCSD 480-694005/3-A	Lab Control Sample Dup	91	80	55	75	47	92
MB 480-694005/1-A	Method Blank	49	79	55	71	41	92

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5
TPHd14 = p-Terphenyl-d14 (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCBP1	DCBP2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(20-120)	(20-120)	(44-120)	(44-120)
480-215302-1	IDW-11302023	58	47	85	71
LCS 480-694010/2-A	Lab Control Sample	51	58	68	86
LCSD 480-694010/3-A	Lab Control Sample Dup	57	62	73	79
MB 480-694010/1-A	Method Blank	54	58	79	94

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Surrogate Summary

Client: Parsons Corporation
Job ID: 480-215302-1
Project/Site: Avangrid - McMaster Street

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCBP1 (19-120)	DCBP2 (19-120)	TCX1 (39-121)	TCX2 (39-121)
480-215302-1	IDW-11302023	35	52	69	77
LCS 480-694196/2-A	Lab Control Sample	47	53	89	86
LCSD 480-694196/3-A	Lab Control Sample Dup	50	54	84	78
MB 480-694196/1-A	Method Blank	55	60	84	82

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8151A - Herbicides (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCPAA1 (21-143)	DCPAA2 (21-143)
480-215302-1	IDW-11302023	368 S1+	247 S1+
LCS 480-694273/2-A	Lab Control Sample	112	94
LCSD 480-694273/3-A	Lab Control Sample Dup	102	88
MB 480-694273/1-A	Method Blank	101	84

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid

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

Lab Sample ID: MB 480-694018/9
Matrix: Water
Analysis Batch: 694018

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			12/01/23 17:56	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			12/01/23 17:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			12/01/23 17:56	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/01/23 17:56	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			12/01/23 17:56	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/01/23 17:56	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/01/23 17:56	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			12/01/23 17:56	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			12/01/23 17:56	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			12/01/23 17:56	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/01/23 17:56	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			12/01/23 17:56	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			12/01/23 17:56	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			12/01/23 17:56	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			12/01/23 17:56	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			12/01/23 17:56	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			12/01/23 17:56	1
Acetone	10	U	10	3.0	ug/L			12/01/23 17:56	1
Benzene	1.0	U	1.0	0.41	ug/L			12/01/23 17:56	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			12/01/23 17:56	1
Bromoform	1.0	U	1.0	0.26	ug/L			12/01/23 17:56	1
Bromomethane	1.0	U	1.0	0.69	ug/L			12/01/23 17:56	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			12/01/23 17:56	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			12/01/23 17:56	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			12/01/23 17:56	1
Chloroethane	1.0	U	1.0	0.32	ug/L			12/01/23 17:56	1
Chloroform	1.0	U	1.0	0.34	ug/L			12/01/23 17:56	1
Chloromethane	1.0	U	1.0	0.35	ug/L			12/01/23 17:56	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			12/01/23 17:56	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			12/01/23 17:56	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			12/01/23 17:56	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			12/01/23 17:56	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			12/01/23 17:56	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			12/01/23 17:56	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			12/01/23 17:56	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			12/01/23 17:56	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/01/23 17:56	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			12/01/23 17:56	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			12/01/23 17:56	1
Styrene	1.0	U	1.0	0.73	ug/L			12/01/23 17:56	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			12/01/23 17:56	1
Toluene	1.0	U	1.0	0.51	ug/L			12/01/23 17:56	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			12/01/23 17:56	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			12/01/23 17:56	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			12/01/23 17:56	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			12/01/23 17:56	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			12/01/23 17:56	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			12/01/23 17:56	1

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

Lab Sample ID: MB 480-694018/9
Matrix: Water
Analysis Batch: 694018

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		12/01/23 17:56	1
4-Bromofluorobenzene (Surr)	99		73 - 120		12/01/23 17:56	1
Dibromofluoromethane (Surr)	99		75 - 123		12/01/23 17:56	1
Toluene-d8 (Surr)	100		80 - 120		12/01/23 17:56	1

Lab Sample ID: LCS 480-694018/6
Matrix: Water
Analysis Batch: 694018

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	25.0	24.0		ug/L		96	73 - 126
1,1,2,2-Tetrachloroethane	25.0	24.5		ug/L		98	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	25.3		ug/L		101	61 - 148
1,1,2-Trichloroethane	25.0	24.5		ug/L		98	76 - 122
1,1-Dichloroethane	25.0	25.4		ug/L		102	77 - 120
1,1-Dichloroethene	25.0	24.5		ug/L		98	66 - 127
1,2,4-Trichlorobenzene	25.0	25.9		ug/L		104	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	26.4		ug/L		105	56 - 134
1,2-Dibromoethane	25.0	25.0		ug/L		100	77 - 120
1,2-Dichlorobenzene	25.0	24.1		ug/L		97	80 - 124
1,2-Dichloroethane	25.0	24.1		ug/L		97	75 - 120
1,2-Dichloropropane	25.0	23.7		ug/L		95	76 - 120
1,3-Dichlorobenzene	25.0	24.2		ug/L		97	77 - 120
1,4-Dichlorobenzene	25.0	23.7		ug/L		95	80 - 120
2-Butanone (MEK)	125	232	*+	ug/L		186	57 - 140
2-Hexanone	125	127		ug/L		102	65 - 127
4-Methyl-2-pentanone (MIBK)	125	123		ug/L		99	71 - 125
Acetone	125	138		ug/L		110	56 - 142
Benzene	25.0	24.3		ug/L		97	71 - 124
Bromodichloromethane	25.0	24.7		ug/L		99	80 - 122
Bromoform	25.0	24.9		ug/L		100	61 - 132
Bromomethane	25.0	22.1		ug/L		88	55 - 144
Carbon disulfide	25.0	24.2		ug/L		97	59 - 134
Carbon tetrachloride	25.0	24.9		ug/L		100	72 - 134
Chlorobenzene	25.0	23.9		ug/L		96	80 - 120
Chloroethane	25.0	24.2		ug/L		97	69 - 136
Chloroform	25.0	23.0		ug/L		92	73 - 127
Chloromethane	25.0	21.1		ug/L		84	68 - 124
cis-1,2-Dichloroethene	25.0	25.5		ug/L		102	74 - 124
cis-1,3-Dichloropropene	25.0	26.2		ug/L		105	74 - 124
Cyclohexane	25.0	23.9		ug/L		96	59 - 135
Dibromochloromethane	25.0	25.2		ug/L		101	75 - 125
Dichlorodifluoromethane	25.0	23.1		ug/L		93	59 - 135
Ethylbenzene	25.0	24.4		ug/L		98	77 - 123
Isopropylbenzene	25.0	25.3		ug/L		101	77 - 122
Methyl acetate	50.0	64.0		ug/L		128	74 - 133
Methyl tert-butyl ether	25.0	24.7		ug/L		99	77 - 120
Methylcyclohexane	25.0	24.4		ug/L		98	68 - 134

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

Lab Sample ID: LCS 480-694018/6
Matrix: Water
Analysis Batch: 694018

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methylene Chloride	25.0	23.7		ug/L		95	75 - 124
Styrene	25.0	25.5		ug/L		102	80 - 120
Tetrachloroethene	25.0	25.3		ug/L		101	74 - 122
Toluene	25.0	23.6		ug/L		94	80 - 122
trans-1,2-Dichloroethene	25.0	25.8		ug/L		103	73 - 127
Trichloroethene	25.0	24.8		ug/L		99	74 - 123
Trichlorofluoromethane	25.0	25.1		ug/L		100	62 - 150
Vinyl chloride	25.0	26.8		ug/L		107	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*
Dibromofluoromethane (Surr)	*100*		*75 - 123*
Toluene-d8 (Surr)	*98*		*80 - 120*

Lab Sample ID: MB 480-694204/9
Matrix: Water
Analysis Batch: 694204

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			12/04/23 17:16	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			12/04/23 17:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			12/04/23 17:16	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/04/23 17:16	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			12/04/23 17:16	1
m-Xylene & p-Xylene	2.0	U	2.0	0.66	ug/L			12/04/23 17:16	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/04/23 17:16	1
o-Xylene	1.0	U	1.0	0.76	ug/L			12/04/23 17:16	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/04/23 17:16	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			12/04/23 17:16	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			12/04/23 17:16	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			12/04/23 17:16	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/04/23 17:16	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			12/04/23 17:16	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			12/04/23 17:16	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			12/04/23 17:16	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			12/04/23 17:16	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			12/04/23 17:16	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			12/04/23 17:16	1
Acetone	10	U	10	3.0	ug/L			12/04/23 17:16	1
Benzene	1.0	U	1.0	0.41	ug/L			12/04/23 17:16	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			12/04/23 17:16	1
Bromoform	1.0	U	1.0	0.26	ug/L			12/04/23 17:16	1
Bromomethane	1.0	U	1.0	0.69	ug/L			12/04/23 17:16	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			12/04/23 17:16	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			12/04/23 17:16	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			12/04/23 17:16	1
Chloroethane	1.0	U	1.0	0.32	ug/L			12/04/23 17:16	1

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

Lab Sample ID: MB 480-694204/9
Matrix: Water
Analysis Batch: 694204

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	1.0	U	1.0	0.34	ug/L			12/04/23 17:16	1
Chloromethane	1.0	U	1.0	0.35	ug/L			12/04/23 17:16	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			12/04/23 17:16	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			12/04/23 17:16	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			12/04/23 17:16	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			12/04/23 17:16	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			12/04/23 17:16	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			12/04/23 17:16	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			12/04/23 17:16	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			12/04/23 17:16	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/04/23 17:16	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			12/04/23 17:16	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			12/04/23 17:16	1
Styrene	1.0	U	1.0	0.73	ug/L			12/04/23 17:16	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			12/04/23 17:16	1
Toluene	1.0	U	1.0	0.51	ug/L			12/04/23 17:16	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			12/04/23 17:16	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			12/04/23 17:16	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			12/04/23 17:16	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			12/04/23 17:16	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			12/04/23 17:16	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			12/04/23 17:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*		*12/04/23 17:16*	*1*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*12/04/23 17:16*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 123*		*12/04/23 17:16*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*12/04/23 17:16*	*1*

Lab Sample ID: LCS 480-694204/6
Matrix: Water
Analysis Batch: 694204

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	25.0	23.7		ug/L		95	73 - 126
1,1,2,2-Tetrachloroethane	25.0	24.8		ug/L		99	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	25.2		ug/L		101	61 - 148
1,1,2-Trichloroethane	25.0	24.5		ug/L		98	76 - 122
1,1-Dichloroethane	25.0	25.3		ug/L		101	77 - 120
m-Xylene & p-Xylene	25.0	24.4		ug/L		98	76 - 122
1,1-Dichloroethene	25.0	25.0		ug/L		100	66 - 127
o-Xylene	25.0	24.2		ug/L		97	76 - 122
1,2,4-Trichlorobenzene	25.0	25.7		ug/L		103	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	27.5		ug/L		110	56 - 134
1,2-Dibromoethane	25.0	24.9		ug/L		100	77 - 120
1,2-Dichlorobenzene	25.0	23.7		ug/L		95	80 - 124
1,2-Dichloroethane	25.0	24.0		ug/L		96	75 - 120
1,2-Dichloropropane	25.0	24.2		ug/L		97	76 - 120

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

Lab Sample ID: LCS 480-694204/6
Matrix: Water
Analysis Batch: 694204

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,3-Dichlorobenzene	25.0	23.9		ug/L		96	77 - 120
1,4-Dichlorobenzene	25.0	23.5		ug/L		94	80 - 120
2-Butanone (MEK)	125	241	*+	ug/L		193	57 - 140
2-Hexanone	125	130		ug/L		104	65 - 127
4-Methyl-2-pentanone (MIBK)	125	128		ug/L		102	71 - 125
Acetone	125	144		ug/L		115	56 - 142
Benzene	25.0	23.3		ug/L		93	71 - 124
Bromodichloromethane	25.0	25.6		ug/L		102	80 - 122
Bromoform	25.0	26.7		ug/L		107	61 - 132
Bromomethane	25.0	20.9		ug/L		84	55 - 144
Carbon disulfide	25.0	24.1		ug/L		96	59 - 134
Carbon tetrachloride	25.0	24.7		ug/L		99	72 - 134
Chlorobenzene	25.0	23.3		ug/L		93	80 - 120
Chloroethane	25.0	23.3		ug/L		93	69 - 136
Chloroform	25.0	22.6		ug/L		90	73 - 127
Chloromethane	25.0	20.8		ug/L		83	68 - 124
cis-1,2-Dichloroethene	25.0	24.9		ug/L		100	74 - 124
cis-1,3-Dichloropropene	25.0	27.1		ug/L		108	74 - 124
Cyclohexane	25.0	23.6		ug/L		94	59 - 135
Dibromochloromethane	25.0	25.8		ug/L		103	75 - 125
Dichlorodifluoromethane	25.0	24.2		ug/L		97	59 - 135
Ethylbenzene	25.0	23.6		ug/L		94	77 - 123
Isopropylbenzene	25.0	24.6		ug/L		99	77 - 122
Methyl acetate	50.0	69.2	*+	ug/L		138	74 - 133
Methyl tert-butyl ether	25.0	24.8		ug/L		99	77 - 120
Methylcyclohexane	25.0	24.3		ug/L		97	68 - 134
Methylene Chloride	25.0	23.2		ug/L		93	75 - 124
Styrene	25.0	24.9		ug/L		99	80 - 120
Tetrachloroethene	25.0	24.7		ug/L		99	74 - 122
Toluene	25.0	23.2		ug/L		93	80 - 122
trans-1,2-Dichloroethene	25.0	25.0		ug/L		100	73 - 127
Trichloroethene	25.0	24.6		ug/L		98	74 - 123
Trichlorofluoromethane	25.0	26.3		ug/L		105	62 - 150
Vinyl chloride	25.0	25.5		ug/L		102	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*
Dibromofluoromethane (Surr)	*99*		*75 - 123*
Toluene-d8 (Surr)	*98*		*80 - 120*

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

Lab Sample ID: MB 480-694005/1-A
Matrix: Water
Analysis Batch: 694261

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 694005

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	5.0	U	5.0	0.48	ug/L		12/01/23 14:13	12/05/23 15:13	1

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

Lab Sample ID: MB 480-694005/1-A
Matrix: Water
Analysis Batch: 694261

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 694005

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	5.0	U	5.0	0.61	ug/L		12/01/23 14:13	12/05/23 15:13	1
2,4-Dichlorophenol	5.0	U	5.0	0.51	ug/L		12/01/23 14:13	12/05/23 15:13	1
2,4-Dimethylphenol	5.0	U	5.0	0.50	ug/L		12/01/23 14:13	12/05/23 15:13	1
2,4-Dinitrophenol	10	U	10	2.2	ug/L		12/01/23 14:13	12/05/23 15:13	1
2,4-Dinitrotoluene	5.0	U	5.0	0.45	ug/L		12/01/23 14:13	12/05/23 15:13	1
2,6-Dinitrotoluene	5.0	U	5.0	0.40	ug/L		12/01/23 14:13	12/05/23 15:13	1
2-Chloronaphthalene	5.0	U	5.0	0.46	ug/L		12/01/23 14:13	12/05/23 15:13	1
2-Chlorophenol	5.0	U	5.0	0.53	ug/L		12/01/23 14:13	12/05/23 15:13	1
2-Methylnaphthalene	5.0	U	5.0	0.60	ug/L		12/01/23 14:13	12/05/23 15:13	1
2-Methylphenol	5.0	U	5.0	0.40	ug/L		12/01/23 14:13	12/05/23 15:13	1
2-Nitroaniline	10	U	10	0.42	ug/L		12/01/23 14:13	12/05/23 15:13	1
2-Nitrophenol	5.0	U	5.0	0.48	ug/L		12/01/23 14:13	12/05/23 15:13	1
3,3'-Dichlorobenzidine	5.0	U	5.0	0.40	ug/L		12/01/23 14:13	12/05/23 15:13	1
3-Nitroaniline	10	U	10	0.48	ug/L		12/01/23 14:13	12/05/23 15:13	1
4,6-Dinitro-2-methylphenol	10	U	10	2.2	ug/L		12/01/23 14:13	12/05/23 15:13	1
4-Bromophenyl phenyl ether	5.0	U	5.0	0.45	ug/L		12/01/23 14:13	12/05/23 15:13	1
4-Chloro-3-methylphenol	5.0	U	5.0	0.45	ug/L		12/01/23 14:13	12/05/23 15:13	1
4-Chloroaniline	5.0	U	5.0	0.59	ug/L		12/01/23 14:13	12/05/23 15:13	1
4-Chlorophenyl phenyl ether	5.0	U	5.0	0.35	ug/L		12/01/23 14:13	12/05/23 15:13	1
4-Methylphenol	10	U	10	0.36	ug/L		12/01/23 14:13	12/05/23 15:13	1
4-Nitroaniline	10	U	10	0.25	ug/L		12/01/23 14:13	12/05/23 15:13	1
4-Nitrophenol	10	U	10	1.5	ug/L		12/01/23 14:13	12/05/23 15:13	1
Acenaphthene	5.0	U	5.0	0.41	ug/L		12/01/23 14:13	12/05/23 15:13	1
Acenaphthylene	5.0	U	5.0	0.38	ug/L		12/01/23 14:13	12/05/23 15:13	1
Acetophenone	5.0	U	5.0	0.54	ug/L		12/01/23 14:13	12/05/23 15:13	1
Anthracene	5.0	U	5.0	0.28	ug/L		12/01/23 14:13	12/05/23 15:13	1
Atrazine	5.0	U	5.0	0.46	ug/L		12/01/23 14:13	12/05/23 15:13	1
Benzaldehyde	5.0	U	5.0	0.27	ug/L		12/01/23 14:13	12/05/23 15:13	1
Benzo(a)anthracene	5.0	U	5.0	0.36	ug/L		12/01/23 14:13	12/05/23 15:13	1
Benzo(a)pyrene	5.0	U	5.0	0.47	ug/L		12/01/23 14:13	12/05/23 15:13	1
Benzo(b)fluoranthene	5.0	U	5.0	0.34	ug/L		12/01/23 14:13	12/05/23 15:13	1
Benzo(g,h,i) perylene	5.0	U	5.0	0.35	ug/L		12/01/23 14:13	12/05/23 15:13	1
Benzo(k)fluoranthene	5.0	U	5.0	0.73	ug/L		12/01/23 14:13	12/05/23 15:13	1
Biphenyl	5.0	U	5.0	0.65	ug/L		12/01/23 14:13	12/05/23 15:13	1
bis (2-chloroisopropyl) ether	5.0	U	5.0	0.52	ug/L		12/01/23 14:13	12/05/23 15:13	1
Bis(2-chloroethoxy)methane	5.0	U	5.0	0.35	ug/L		12/01/23 14:13	12/05/23 15:13	1
Bis(2-chloroethyl)ether	5.0	U	5.0	0.40	ug/L		12/01/23 14:13	12/05/23 15:13	1
Bis(2-ethylhexyl) phthalate	5.0	U	5.0	2.2	ug/L		12/01/23 14:13	12/05/23 15:13	1
Butyl benzyl phthalate	5.0	U	5.0	1.0	ug/L		12/01/23 14:13	12/05/23 15:13	1
Caprolactam	5.0	U	5.0	2.2	ug/L		12/01/23 14:13	12/05/23 15:13	1
Carbazole	5.0	U	5.0	0.30	ug/L		12/01/23 14:13	12/05/23 15:13	1
Chrysene	5.0	U	5.0	0.33	ug/L		12/01/23 14:13	12/05/23 15:13	1
Dibenz(a,h)anthracene	5.0	U	5.0	0.42	ug/L		12/01/23 14:13	12/05/23 15:13	1
Dibenzofuran	10	U	10	0.51	ug/L		12/01/23 14:13	12/05/23 15:13	1
Diethyl phthalate	5.0	U	5.0	0.22	ug/L		12/01/23 14:13	12/05/23 15:13	1
Dimethyl phthalate	5.0	U	5.0	0.36	ug/L		12/01/23 14:13	12/05/23 15:13	1
Di-n-butyl phthalate	5.0	U	5.0	0.31	ug/L		12/01/23 14:13	12/05/23 15:13	1
Di-n-octyl phthalate	5.0	U	5.0	0.47	ug/L		12/01/23 14:13	12/05/23 15:13	1
Fluoranthene	5.0	U	5.0	0.40	ug/L		12/01/23 14:13	12/05/23 15:13	1

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

Lab Sample ID: MB 480-694005/1-A
Matrix: Water
Analysis Batch: 694261

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 694005

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	5.0	U	5.0	0.36	ug/L		12/01/23 14:13	12/05/23 15:13	1
Hexachlorobenzene	5.0	U	5.0	0.51	ug/L		12/01/23 14:13	12/05/23 15:13	1
Hexachlorobutadiene	5.0	U	5.0	0.68	ug/L		12/01/23 14:13	12/05/23 15:13	1
Hexachlorocyclopentadiene	5.0	U	5.0	0.59	ug/L		12/01/23 14:13	12/05/23 15:13	1
Hexachloroethane	5.0	U	5.0	0.59	ug/L		12/01/23 14:13	12/05/23 15:13	1
Ideno(1,2,3-cd)pyrene	5.0	U	5.0	0.47	ug/L		12/01/23 14:13	12/05/23 15:13	1
Isophorone	5.0	U	5.0	0.43	ug/L		12/01/23 14:13	12/05/23 15:13	1
Naphthalene	5.0	U	5.0	0.76	ug/L		12/01/23 14:13	12/05/23 15:13	1
Nitrobenzene	5.0	U	5.0	0.29	ug/L		12/01/23 14:13	12/05/23 15:13	1
N-Nitrosodi-n-propylamine	5.0	U	5.0	0.54	ug/L		12/01/23 14:13	12/05/23 15:13	1
N-Nitrosodiphenylamine	5.0	U	5.0	0.51	ug/L		12/01/23 14:13	12/05/23 15:13	1
Pentachlorophenol	10	U	10	2.2	ug/L		12/01/23 14:13	12/05/23 15:13	1
Phenanthrene	5.0	U	5.0	0.44	ug/L		12/01/23 14:13	12/05/23 15:13	1
Phenol	5.0	U	5.0	0.39	ug/L		12/01/23 14:13	12/05/23 15:13	1
Pyrene	5.0	U	5.0	0.34	ug/L		12/01/23 14:13	12/05/23 15:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*49*		*41 - 120*	*12/01/23 14:13*	*12/05/23 15:13*	*1*
2-Fluorobiphenyl	*79*		*48 - 120*	*12/01/23 14:13*	*12/05/23 15:13*	*1*
2-Fluorophenol	*55*		*35 - 120*	*12/01/23 14:13*	*12/05/23 15:13*	*1*
Nitrobenzene-d5 (Surr)	*71*		*46 - 120*	*12/01/23 14:13*	*12/05/23 15:13*	*1*
Phenol-d5	*41*		*22 - 120*	*12/01/23 14:13*	*12/05/23 15:13*	*1*
p-Terphenyl-d14 (Surr)	*92*		*60 - 148*	*12/01/23 14:13*	*12/05/23 15:13*	*1*

Lab Sample ID: LCS 480-694005/2-A
Matrix: Water
Analysis Batch: 694261

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 694005

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4,5-Trichlorophenol	32.0	26.8		ug/L		84	65 - 126
2,4,6-Trichlorophenol	32.0	27.6		ug/L		86	64 - 120
2,4-Dichlorophenol	32.0	25.5		ug/L		80	63 - 120
2,4-Dimethylphenol	32.0	20.7		ug/L		65	47 - 120
2,4-Dinitrophenol	64.0	46.0		ug/L		72	31 - 137
2,4-Dinitrotoluene	32.0	30.4		ug/L		95	69 - 120
2,6-Dinitrotoluene	32.0	30.2		ug/L		94	68 - 120
2-Chloronaphthalene	32.0	28.9		ug/L		90	58 - 120
2-Chlorophenol	32.0	23.5		ug/L		73	48 - 120
2-Methylnaphthalene	32.0	22.7		ug/L		71	59 - 120
2-Methylphenol	32.0	21.1		ug/L		66	39 - 120
2-Nitroaniline	32.0	27.8		ug/L		87	54 - 127
2-Nitrophenol	32.0	24.2		ug/L		76	52 - 125
3,3'-Dichlorobenzidine	64.0	58.9		ug/L		92	49 - 135
3-Nitroaniline	32.0	26.1		ug/L		82	51 - 120
4,6-Dinitro-2-methylphenol	64.0	56.2		ug/L		88	46 - 136
4-Bromophenyl phenyl ether	32.0	30.9		ug/L		97	65 - 120
4-Chloro-3-methylphenol	32.0	27.5		ug/L		86	61 - 123
4-Chloroaniline	32.0	20.9		ug/L		65	30 - 120

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

Lab Sample ID: LCS 480-694005/2-A
Matrix: Water
Analysis Batch: 694261

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 694005

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Chlorophenyl phenyl ether	32.0	26.6		ug/L		83	62 - 120
4-Methylphenol	32.0	21.8		ug/L		68	29 - 131
4-Nitroaniline	32.0	31.8		ug/L		99	65 - 120
4-Nitrophenol	64.0	52.8		ug/L		82	45 - 120
Acenaphthene	32.0	26.2		ug/L		82	60 - 120
Acenaphthylene	32.0	24.3		ug/L		76	63 - 120
Acetophenone	32.0	24.3		ug/L		76	45 - 120
Anthracene	32.0	29.9		ug/L		93	67 - 120
Atrazine	64.0	65.6		ug/L		102	71 - 130
Benzaldehyde	64.0	41.3		ug/L		65	10 - 140
Benzo(a)anthracene	32.0	30.6		ug/L		96	70 - 121
Benzo(a)pyrene	32.0	31.3		ug/L		98	60 - 123
Benzo(b)fluoranthene	32.0	32.0		ug/L		100	66 - 126
Benzo(g,h,i) perylene	32.0	29.8		ug/L		93	66 - 150
Benzo(k)fluoranthene	32.0	29.8		ug/L		93	65 - 124
Biphenyl	32.0	23.9		ug/L		75	59 - 120
bis (2-chloroisopropyl) ether	32.0	20.3		ug/L		63	21 - 136
Bis(2-chloroethoxy)methane	32.0	23.5		ug/L		73	50 - 128
Bis(2-chloroethyl)ether	32.0	22.8		ug/L		71	44 - 120
Bis(2-ethylhexyl) phthalate	32.0	30.2		ug/L		95	63 - 139
Butyl benzyl phthalate	32.0	31.5		ug/L		98	70 - 129
Caprolactam	64.0	20.8		ug/L		33	22 - 120
Carbazole	32.0	34.2		ug/L		107	66 - 123
Chrysene	32.0	31.1		ug/L		97	69 - 120
Dibenz(a,h)anthracene	32.0	30.3		ug/L		95	65 - 135
Dibenzofuran	32.0	26.5		ug/L		83	66 - 120
Diethyl phthalate	32.0	30.8		ug/L		96	59 - 127
Dimethyl phthalate	32.0	30.7		ug/L		96	68 - 120
Di-n-butyl phthalate	32.0	32.0		ug/L		100	69 - 131
Di-n-octyl phthalate	32.0	30.3		ug/L		95	63 - 140
Fluoranthene	32.0	31.6		ug/L		99	69 - 126
Fluorene	32.0	27.9		ug/L		87	66 - 120
Hexachlorobenzene	32.0	31.9		ug/L		100	61 - 120
Hexachlorobutadiene	32.0	19.2		ug/L		60	35 - 120
Hexachlorocyclopentadiene	32.0	12.5		ug/L		39	31 - 120
Hexachloroethane	32.0	19.3		ug/L		60	33 - 120
Ideno(1,2,3-cd)pyrene	32.0	32.7		ug/L		102	69 - 146
Isophorone	32.0	23.5		ug/L		74	55 - 120
Naphthalene	32.0	22.4		ug/L		70	57 - 120
Nitrobenzene	32.0	23.7		ug/L		74	53 - 123
N-Nitrosodi-n-propylamine	32.0	24.8		ug/L		77	32 - 140
Pentachlorophenol	64.0	42.5		ug/L		66	10 - 136
Phenanthrene	32.0	31.4		ug/L		98	68 - 120
Phenol	32.0	16.6		ug/L		52	17 - 120
Pyrene	32.0	30.3		ug/L		95	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*95*		*41 - 120*

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

Lab Sample ID: LCS 480-694005/2-A
Matrix: Water
Analysis Batch: 694261

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 694005

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	78		48 - 120
2-Fluorophenol	58		35 - 120
Nitrobenzene-d5 (Surr)	74		46 - 120
Phenol-d5	47		22 - 120
p-Terphenyl-d14 (Surr)	96		60 - 148

Lab Sample ID: LCSD 480-694005/3-A
Matrix: Water
Analysis Batch: 694261

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 694005

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4,5-Trichlorophenol			32.0	26.4		ug/L		82	65 - 126	2	18
2,4,6-Trichlorophenol			32.0	28.6		ug/L		89	64 - 120	4	19
2,4-Dichlorophenol			32.0	25.7		ug/L		80	63 - 120	1	19
2,4-Dimethylphenol			32.0	21.3		ug/L		67	47 - 120	3	42
2,4-Dinitrophenol			64.0	45.2		ug/L		71	31 - 137	2	22
2,4-Dinitrotoluene			32.0	29.0		ug/L		91	69 - 120	5	20
2,6-Dinitrotoluene			32.0	28.5		ug/L		89	68 - 120	6	15
2-Chloronaphthalene			32.0	29.1		ug/L		91	58 - 120	1	21
2-Chlorophenol			32.0	22.8		ug/L		71	48 - 120	3	25
2-Methylnaphthalene			32.0	23.2		ug/L		73	59 - 120	2	21
2-Methylphenol			32.0	21.2		ug/L		66	39 - 120	0	27
2-Nitroaniline			32.0	28.0		ug/L		87	54 - 127	1	15
2-Nitrophenol			32.0	25.0		ug/L		78	52 - 125	4	18
3,3'-Dichlorobenzidine			64.0	54.4		ug/L		85	49 - 135	8	25
3-Nitroaniline			32.0	25.4		ug/L		79	51 - 120	3	19
4,6-Dinitro-2-methylphenol			64.0	55.2		ug/L		86	46 - 136	2	15
4-Bromophenyl phenyl ether			32.0	28.8		ug/L		90	65 - 120	7	15
4-Chloro-3-methylphenol			32.0	27.4		ug/L		86	61 - 123	1	27
4-Chloroaniline			32.0	19.8		ug/L		62	30 - 120	5	22
4-Chlorophenyl phenyl ether			32.0	25.8		ug/L		81	62 - 120	3	16
4-Methylphenol			32.0	21.2		ug/L		66	29 - 131	3	24
4-Nitroaniline			32.0	30.8		ug/L		96	65 - 120	3	24
4-Nitrophenol			64.0	50.7		ug/L		79	45 - 120	4	48
Acenaphthene			32.0	26.2		ug/L		82	60 - 120	0	24
Acenaphthylene			32.0	24.9		ug/L		78	63 - 120	2	18
Acetophenone			32.0	23.4		ug/L		73	45 - 120	3	20
Anthracene			32.0	28.2		ug/L		88	67 - 120	6	15
Atrazine			64.0	63.7		ug/L		100	71 - 130	3	20
Benzaldehyde			64.0	41.2		ug/L		64	10 - 140	0	20
Benzo(a)anthracene			32.0	29.5		ug/L		92	70 - 121	4	15
Benzo(a)pyrene			32.0	31.1		ug/L		97	60 - 123	1	15
Benzo(b)fluoranthene			32.0	31.9		ug/L		100	66 - 126	0	15
Benzo(g,h,i) perylene			32.0	29.2		ug/L		91	66 - 150	2	15
Benzo(k)fluoranthene			32.0	30.2		ug/L		94	65 - 124	1	22
Biphenyl			32.0	24.7		ug/L		77	59 - 120	3	20
bis (2-chloroisopropyl) ether			32.0	19.6		ug/L		61	21 - 136	3	24
Bis(2-chloroethoxy)methane			32.0	23.8		ug/L		75	50 - 128	2	17

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

Lab Sample ID: LCSD 480-694005/3-A
Matrix: Water
Analysis Batch: 694261

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 694005

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bis(2-chloroethyl)ether			32.0	22.6		ug/L		71	44 - 120	1	21
Bis(2-ethylhexyl) phthalate			32.0	28.8		ug/L		90	63 - 139	5	15
Butyl benzyl phthalate			32.0	30.2		ug/L		94	70 - 129	4	16
Caprolactam			64.0	19.5		ug/L		31	22 - 120	6	20
Carbazole			32.0	32.8		ug/L		103	66 - 123	4	20
Chrysene			32.0	29.7		ug/L		93	69 - 120	5	15
Dibenz(a,h)anthracene			32.0	29.5		ug/L		92	65 - 135	3	15
Dibenzofuran			32.0	26.6		ug/L		83	66 - 120	1	15
Diethyl phthalate			32.0	29.6		ug/L		92	59 - 127	4	15
Dimethyl phthalate			32.0	28.3		ug/L		88	68 - 120	8	15
Di-n-butyl phthalate			32.0	31.0		ug/L		97	69 - 131	3	15
Di-n-octyl phthalate			32.0	29.3		ug/L		92	63 - 140	3	16
Fluoranthene			32.0	30.3		ug/L		95	69 - 126	4	15
Fluorene			32.0	26.2		ug/L		82	66 - 120	6	15
Hexachlorobenzene			32.0	30.9		ug/L		97	61 - 120	3	15
Hexachlorobutadiene			32.0	18.6		ug/L		58	35 - 120	3	44
Hexachlorocyclopentadiene			32.0	12.5		ug/L		39	31 - 120	0	49
Hexachloroethane			32.0	18.6		ug/L		58	33 - 120	4	46
Ideno(1,2,3-cd)pyrene			32.0	32.7		ug/L		102	69 - 146	0	15
Isophorone			32.0	24.0		ug/L		75	55 - 120	2	17
Naphthalene			32.0	22.6		ug/L		70	57 - 120	1	29
Nitrobenzene			32.0	24.0		ug/L		75	53 - 123	1	24
N-Nitrosodi-n-propylamine			32.0	24.5		ug/L		77	32 - 140	1	31
Pentachlorophenol			64.0	39.5		ug/L		62	10 - 136	7	37
Phenanthrene			32.0	30.5		ug/L		95	68 - 120	3	15
Phenol			32.0	15.9		ug/L		50	17 - 120	4	34
Pyrene			32.0	28.4		ug/L		89	70 - 125	6	19

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*91*		*41 - 120*
2-Fluorobiphenyl	*80*		*48 - 120*
2-Fluorophenol	*55*		*35 - 120*
Nitrobenzene-d5 (Surr)	*75*		*46 - 120*
Phenol-d5	*47*		*22 - 120*
p-Terphenyl-d14 (Surr)	*92*		*60 - 148*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 480-694010/1-A
Matrix: Water
Analysis Batch: 694102

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 694010

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.050	U	0.050	0.0092	ug/L		12/01/23 14:18	12/04/23 09:52	1
4,4'-DDE	0.050	U	0.050	0.012	ug/L		12/01/23 14:18	12/04/23 09:52	1
4,4'-DDT	0.050	U	0.050	0.011	ug/L		12/01/23 14:18	12/04/23 09:52	1
Aldrin	0.050	U	0.050	0.0081	ug/L		12/01/23 14:18	12/04/23 09:52	1
alpha-BHC	0.050	U	0.050	0.0077	ug/L		12/01/23 14:18	12/04/23 09:52	1
beta-BHC	0.050	U	0.050	0.025	ug/L		12/01/23 14:18	12/04/23 09:52	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 480-694010/1-A
Matrix: Water
Analysis Batch: 694102

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 694010

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-Chlordane	0.050	U	0.050	0.015	ug/L		12/01/23 14:18	12/04/23 09:52	1
delta-BHC	0.050	U	0.050	0.010	ug/L		12/01/23 14:18	12/04/23 09:52	1
Dieldrin	0.050	U	0.050	0.0098	ug/L		12/01/23 14:18	12/04/23 09:52	1
Endosulfan I	0.050	U	0.050	0.011	ug/L		12/01/23 14:18	12/04/23 09:52	1
Endosulfan II	0.050	U	0.050	0.012	ug/L		12/01/23 14:18	12/04/23 09:52	1
Endosulfan sulfate	0.050	U	0.050	0.016	ug/L		12/01/23 14:18	12/04/23 09:52	1
Endrin	0.050	U	0.050	0.014	ug/L		12/01/23 14:18	12/04/23 09:52	1
Endrin aldehyde	0.050	U	0.050	0.016	ug/L		12/01/23 14:18	12/04/23 09:52	1
Endrin ketone	0.050	U	0.050	0.012	ug/L		12/01/23 14:18	12/04/23 09:52	1
gamma-BHC (Lindane)	0.050	U	0.050	0.0080	ug/L		12/01/23 14:18	12/04/23 09:52	1
Heptachlor	0.050	U	0.050	0.0085	ug/L		12/01/23 14:18	12/04/23 09:52	1
Heptachlor epoxide	0.050	U	0.050	0.0074	ug/L		12/01/23 14:18	12/04/23 09:52	1
Methoxychlor	0.050	U	0.050	0.014	ug/L		12/01/23 14:18	12/04/23 09:52	1
Toxaphene	0.50	U	0.50	0.12	ug/L		12/01/23 14:18	12/04/23 09:52	1
trans-Chlordane	0.050	U	0.050	0.011	ug/L		12/01/23 14:18	12/04/23 09:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*54*		*20 - 120*	*12/01/23 14:18*	*12/04/23 09:52*	*1*
DCB Decachlorobiphenyl	*58*		*20 - 120*	*12/01/23 14:18*	*12/04/23 09:52*	*1*
Tetrachloro-m-xylene	*79*		*44 - 120*	*12/01/23 14:18*	*12/04/23 09:52*	*1*
Tetrachloro-m-xylene	*94*		*44 - 120*	*12/01/23 14:18*	*12/04/23 09:52*	*1*

Lab Sample ID: LCS 480-694010/2-A
Matrix: Water
Analysis Batch: 694102

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 694010

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	0.400	0.461		ug/L		115	64 - 129
4,4'-DDE	0.400	0.412		ug/L		103	50 - 120
4,4'-DDT	0.400	0.432		ug/L		108	59 - 120
Aldrin	0.400	0.287		ug/L		72	40 - 125
alpha-BHC	0.400	0.369		ug/L		92	52 - 125
beta-BHC	0.400	0.412		ug/L		103	51 - 120
cis-Chlordane	0.400	0.406		ug/L		102	52 - 120
delta-BHC	0.400	0.422		ug/L		106	51 - 120
Dieldrin	0.400	0.450		ug/L		112	66 - 128
Endosulfan I	0.400	0.498	*+	ug/L		125	57 - 120
Endosulfan II	0.400	0.453		ug/L		113	66 - 131
Endosulfan sulfate	0.400	0.454		ug/L		114	66 - 136
Endrin	0.400	0.441		ug/L		110	65 - 135
Endrin aldehyde	0.400	0.412		ug/L		103	61 - 134
Endrin ketone	0.400	0.453		ug/L		113	71 - 133
gamma-BHC (Lindane)	0.400	0.392		ug/L		98	56 - 120
Heptachlor	0.400	0.349		ug/L		87	58 - 120
Heptachlor epoxide	0.400	0.412		ug/L		103	65 - 125
Methoxychlor	0.400	0.438		ug/L		109	50 - 150
trans-Chlordane	0.400	0.434		ug/L		108	54 - 120

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 480-694010/2-A
Matrix: Water
Analysis Batch: 694102

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 694010

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	51		20 - 120
DCB Decachlorobiphenyl	58		20 - 120
Tetrachloro-m-xylene	68		44 - 120
Tetrachloro-m-xylene	86		44 - 120

Lab Sample ID: LCSD 480-694010/3-A
Matrix: Water
Analysis Batch: 694102

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 694010

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD			0.400	0.487		ug/L		122	64 - 129	5	23
4,4'-DDE			0.400	0.438		ug/L		109	50 - 120	6	22
4,4'-DDT			0.400	0.463		ug/L		116	59 - 120	7	24
Aldrin			0.400	0.305		ug/L		76	40 - 125	6	25
alpha-BHC			0.400	0.373		ug/L		93	52 - 125	1	24
beta-BHC			0.400	0.429		ug/L		107	51 - 120	4	24
cis-Chlordane			0.400	0.440		ug/L		110	52 - 120	8	23
delta-BHC			0.400	0.449		ug/L		112	51 - 120	6	24
Dieldrin			0.400	0.481		ug/L		120	66 - 128	7	24
Endosulfan I			0.400	0.499	*+	ug/L		125	57 - 120	0	30
Endosulfan II			0.400	0.480		ug/L		120	66 - 131	6	40
Endosulfan sulfate			0.400	0.485		ug/L		121	66 - 136	7	24
Endrin			0.400	0.469		ug/L		117	65 - 135	6	24
Endrin aldehyde			0.400	0.449		ug/L		112	61 - 134	9	28
Endrin ketone			0.400	0.481		ug/L		120	71 - 133	6	26
gamma-BHC (Lindane)			0.400	0.404		ug/L		101	56 - 120	3	24
Heptachlor			0.400	0.366		ug/L		92	58 - 120	5	25
Heptachlor epoxide			0.400	0.438		ug/L		109	65 - 125	6	23
Methoxychlor			0.400	0.467		ug/L		117	50 - 150	7	26
trans-Chlordane			0.400	0.505	*+	ug/L		126	54 - 120	15	24

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl	57		20 - 120
DCB Decachlorobiphenyl	62		20 - 120
Tetrachloro-m-xylene	73		44 - 120
Tetrachloro-m-xylene	79		44 - 120

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-694196/1-A
Matrix: Water
Analysis Batch: 694342

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 694196

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.50	U	0.50	0.18	ug/L		12/04/23 14:21	12/05/23 15:22	1
PCB-1221	0.50	U	0.50	0.18	ug/L		12/04/23 14:21	12/05/23 15:22	1
PCB-1232	0.50	U	0.50	0.18	ug/L		12/04/23 14:21	12/05/23 15:22	1
PCB-1242	0.50	U	0.50	0.18	ug/L		12/04/23 14:21	12/05/23 15:22	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 480-694196/1-A
Matrix: Water
Analysis Batch: 694342

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 694196

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	0.50	U	0.50	0.18	ug/L		12/04/23 14:21	12/05/23 15:22	1
PCB-1254	0.50	U	0.50	0.25	ug/L		12/04/23 14:21	12/05/23 15:22	1
PCB-1260	0.50	U	0.50	0.25	ug/L		12/04/23 14:21	12/05/23 15:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*55*		*19 - 120*	*12/04/23 14:21*	*12/05/23 15:22*	*1*
DCB Decachlorobiphenyl	*60*		*19 - 120*	*12/04/23 14:21*	*12/05/23 15:22*	*1*
Tetrachloro-m-xylene	*84*		*39 - 121*	*12/04/23 14:21*	*12/05/23 15:22*	*1*
Tetrachloro-m-xylene	*82*		*39 - 121*	*12/04/23 14:21*	*12/05/23 15:22*	*1*

Lab Sample ID: LCS 480-694196/2-A
Matrix: Water
Analysis Batch: 694342

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 694196

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	4.00	3.71		ug/L		93	62 - 130
PCB-1260	4.00	3.68		ug/L		92	56 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*47*		*19 - 120*
DCB Decachlorobiphenyl	*53*		*19 - 120*
Tetrachloro-m-xylene	*89*		*39 - 121*
Tetrachloro-m-xylene	*86*		*39 - 121*

Lab Sample ID: LCSD 480-694196/3-A
Matrix: Water
Analysis Batch: 694342

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 694196

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	4.00	3.54		ug/L		88	62 - 130	5	50
PCB-1260	4.00	3.62		ug/L		90	56 - 123	2	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*50*		*19 - 120*
DCB Decachlorobiphenyl	*54*		*19 - 120*
Tetrachloro-m-xylene	*84*		*39 - 121*
Tetrachloro-m-xylene	*78*		*39 - 121*

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 480-694273/1-A
Matrix: Water
Analysis Batch: 694414

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 694273

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	0.50	U	0.50	0.068	ug/L		12/05/23 09:10	12/06/23 12:50	1
2,4-D	0.50	U	0.50	0.17	ug/L		12/05/23 09:10	12/06/23 12:50	1
Dichlorprop	0.50	U	0.50	0.12	ug/L		12/05/23 09:10	12/06/23 12:50	1

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: MB 480-694273/1-A
Matrix: Water
Analysis Batch: 694414

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 694273

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dinoseb	0.50	U	0.50	0.14	ug/L		12/05/23 09:10	12/06/23 12:50	1
Pentachlorophenol	0.50	U	0.50	0.049	ug/L		12/05/23 09:10	12/06/23 12:50	1
Picloram	0.50	U	0.50	0.072	ug/L		12/05/23 09:10	12/06/23 12:50	1
Silvex (2,4,5-TP)	0.50	U	0.50	0.050	ug/L		12/05/23 09:10	12/06/23 12:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*101*		*21 - 143*	*12/05/23 09:10*	*12/06/23 12:50*	*1*
2,4-Dichlorophenylacetic acid	*84*		*21 - 143*	*12/05/23 09:10*	*12/06/23 12:50*	*1*

Lab Sample ID: LCS 480-694273/2-A
Matrix: Water
Analysis Batch: 694414

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 694273

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4,5-T	2.00	1.95		ug/L		97	41 - 150
2,4-D	2.00	2.04		ug/L		102	36 - 150
Dichlorprop	2.00	2.03		ug/L		101	33 - 150
Dinoseb	2.00	1.82		ug/L		91	21 - 120
Pentachlorophenol	2.00	2.16		ug/L		108	29 - 143
Picloram	2.00	2.18		ug/L		109	34 - 150
Silvex (2,4,5-TP)	2.00	1.92		ug/L		96	49 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*112*		*21 - 143*
2,4-Dichlorophenylacetic acid	*94*		*21 - 143*

Lab Sample ID: LCSD 480-694273/3-A
Matrix: Water
Analysis Batch: 694414

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 694273

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4,5-T	2.00	1.75		ug/L		88	41 - 150	11	50
2,4-D	2.00	1.88		ug/L		94	36 - 150	8	50
Dichlorprop	2.00	1.80		ug/L		90	33 - 150	12	50
Dinoseb	2.00	1.72		ug/L		86	21 - 120	6	50
Pentachlorophenol	2.00	1.92		ug/L		96	29 - 143	11	50
Picloram	2.00	2.01		ug/L		101	34 - 150	8	50
Silvex (2,4,5-TP)	2.00	1.74		ug/L		87	49 - 150	10	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*102*		*21 - 143*
2,4-Dichlorophenylacetic acid	*88*		*21 - 143*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-694035/1-A
Matrix: Water
Analysis Batch: 694316

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 694035

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.015	U	0.015	0.0056	mg/L		12/04/23 08:11	12/04/23 22:43	1
Barium	0.0020	U	0.0020	0.00070	mg/L		12/04/23 08:11	12/04/23 22:43	1
Cadmium	0.0020	U	0.0020	0.00050	mg/L		12/04/23 08:11	12/04/23 22:43	1
Chromium	0.0040	U	0.0040	0.0010	mg/L		12/04/23 08:11	12/04/23 22:43	1
Lead	0.010	U	0.010	0.0030	mg/L		12/04/23 08:11	12/04/23 22:43	1

Lab Sample ID: MB 480-694035/1-A
Matrix: Water
Analysis Batch: 694633

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 694035

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	0.025	U	0.025	0.0087	mg/L		12/04/23 08:11	12/06/23 15:27	1
Silver	0.0060	U	0.0060	0.0017	mg/L		12/04/23 08:11	12/06/23 15:27	1

Lab Sample ID: LCS 480-694035/2-A
Matrix: Water
Analysis Batch: 694316

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 694035

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.200	0.211		mg/L		105	80 - 120
Barium	0.200	0.205		mg/L		103	80 - 120
Cadmium	0.200	0.211		mg/L		105	80 - 120
Chromium	0.200	0.195		mg/L		98	80 - 120
Lead	0.200	0.233		mg/L		117	80 - 120

Lab Sample ID: LCS 480-694035/2-A
Matrix: Water
Analysis Batch: 694633

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 694035

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Selenium	0.200	0.206		mg/L		103	80 - 120
Silver	0.0500	0.0487		mg/L		97	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-694135/1-A
Matrix: Water
Analysis Batch: 694215

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 694135

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020	0.000043	mg/L		12/04/23 11:34	12/04/23 14:23	1

Lab Sample ID: LCS 480-694135/2-A
Matrix: Water
Analysis Batch: 694215

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 694135

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00669	0.00622		mg/L		93	80 - 120

Method: 1010A - Ignitability, Pensky-Martens Closed-Cup Method

Lab Sample ID: LCS 480-694150/1
Matrix: Water
Analysis Batch: 694150

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Flashpoint	81.0	82.00		Degrees F		101	97.5 - 102.5

Method: 9012 - Cyanide, Reactive

Lab Sample ID: MB 480-694493/1-A
Matrix: Water
Analysis Batch: 694517

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 694493

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive	10.0	U	10.0	10.0	mg/L		12/06/23 10:15	12/06/23 15:51	1

Lab Sample ID: LCS 480-694493/2-A
Matrix: Water
Analysis Batch: 694517

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 694493

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Reactive	1000	627.5		mg/L		63	10 - 100

Method: 9034 - Sulfide, Reactive

Lab Sample ID: MB 480-694497/1-A
Matrix: Water
Analysis Batch: 694657

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 694497

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide, Reactive	10.0	U	10.0	10.0	mg/L		12/06/23 10:15	12/07/23 11:50	1

Lab Sample ID: LCS 480-694497/2-A
Matrix: Water
Analysis Batch: 694657

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 694497

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide, Reactive	580	460.9		mg/L		79	10 - 100

QC Association Summary

Client: Parsons Corporation
Project/Site: Avangrid - McMaster Street

Job ID: 480-215302-1

GC/MS VOA

Analysis Batch: 694018

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-215302-3	TB-11302023	Total/NA	Water	8260C	
MB 480-694018/9	Method Blank	Total/NA	Water	8260C	
LCS 480-694018/6	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 694204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-215302-1	IDW-11302023	Total/NA	Water	8260C	
480-215302-2	MW-PAR-08-113023	Total/NA	Water	8260C	
MB 480-694204/9	Method Blank	Total/NA	Water	8260C	
LCS 480-694204/6	Lab Control Sample	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 694005

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-215302-1	IDW-11302023	Total/NA	Water	3510C	
480-215302-2	MW-PAR-08-113023	Total/NA	Water	3510C	
MB 480-694005/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-694005/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 480-694005/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 694261

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-215302-1	IDW-11302023	Total/NA	Water	8270D	694005
480-215302-2	MW-PAR-08-113023	Total/NA	Water	8270D	694005
MB 480-694005/1-A	Method Blank	Total/NA	Water	8270D	694005
LCS 480-694005/2-A	Lab Control Sample	Total/NA	Water	8270D	694005
LCSD 480-694005/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	694005

GC Semi VOA

Prep Batch: 694010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-215302-1	IDW-11302023	Total/NA	Water	3510C	
MB 480-694010/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-694010/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 480-694010/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 694102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-215302-1	IDW-11302023	Total/NA	Water	8081B	694010
MB 480-694010/1-A	Method Blank	Total/NA	Water	8081B	694010
LCS 480-694010/2-A	Lab Control Sample	Total/NA	Water	8081B	694010
LCSD 480-694010/3-A	Lab Control Sample Dup	Total/NA	Water	8081B	694010

Prep Batch: 694196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-215302-1	IDW-11302023	Total/NA	Water	3510C	
MB 480-694196/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-694196/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 480-694196/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

QC Association Summary

Client: Parsons Corporation
Project/Site: Avangrid - McMaster Street

Job ID: 480-215302-1

GC Semi VOA

Prep Batch: 694273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-215302-1	IDW-11302023	Total/NA	Water	8151A	
MB 480-694273/1-A	Method Blank	Total/NA	Water	8151A	
LCS 480-694273/2-A	Lab Control Sample	Total/NA	Water	8151A	
LCSD 480-694273/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	

Analysis Batch: 694342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-215302-1	IDW-11302023	Total/NA	Water	8082A	694196
MB 480-694196/1-A	Method Blank	Total/NA	Water	8082A	694196
LCS 480-694196/2-A	Lab Control Sample	Total/NA	Water	8082A	694196
LCSD 480-694196/3-A	Lab Control Sample Dup	Total/NA	Water	8082A	694196

Analysis Batch: 694414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-694273/1-A	Method Blank	Total/NA	Water	8151A	694273
LCS 480-694273/2-A	Lab Control Sample	Total/NA	Water	8151A	694273
LCSD 480-694273/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	694273

Analysis Batch: 694535

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-215302-1	IDW-11302023	Total/NA	Water	8151A	694273

Metals

Prep Batch: 694035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-215302-1	IDW-11302023	Total/NA	Water	3005A	
MB 480-694035/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-694035/2-A	Lab Control Sample	Total/NA	Water	3005A	

Prep Batch: 694135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-215302-1	IDW-11302023	Total/NA	Water	7470A	
MB 480-694135/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-694135/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 694215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-215302-1	IDW-11302023	Total/NA	Water	7470A	694135
MB 480-694135/1-A	Method Blank	Total/NA	Water	7470A	694135
LCS 480-694135/2-A	Lab Control Sample	Total/NA	Water	7470A	694135

Analysis Batch: 694316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-215302-1	IDW-11302023	Total/NA	Water	6010C	694035
MB 480-694035/1-A	Method Blank	Total/NA	Water	6010C	694035
LCS 480-694035/2-A	Lab Control Sample	Total/NA	Water	6010C	694035

Analysis Batch: 694633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-215302-1	IDW-11302023	Total/NA	Water	6010C	694035

Metals (Continued)

Analysis Batch: 694633 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-694035/1-A	Method Blank	Total/NA	Water	6010C	694035
LCS 480-694035/2-A	Lab Control Sample	Total/NA	Water	6010C	694035

General Chemistry

Analysis Batch: 694150

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-215302-1	IDW-11302023	Total/NA	Water	1010A	
LCS 480-694150/1	Lab Control Sample	Total/NA	Water	1010A	

Analysis Batch: 694227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-215302-1	IDW-11302023	Total/NA	Water	9040C	
LCS 480-694227/23	Lab Control Sample	Total/NA	Water	9040C	

Prep Batch: 694493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-215302-1	IDW-11302023	Total/NA	Water	7.3.3	
MB 480-694493/1-A	Method Blank	Total/NA	Water	7.3.3	
LCS 480-694493/2-A	Lab Control Sample	Total/NA	Water	7.3.3	

Prep Batch: 694497

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-215302-1	IDW-11302023	Total/NA	Water	7.3.4	
MB 480-694497/1-A	Method Blank	Total/NA	Water	7.3.4	
LCS 480-694497/2-A	Lab Control Sample	Total/NA	Water	7.3.4	

Analysis Batch: 694517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-215302-1	IDW-11302023	Total/NA	Water	9012	694493
MB 480-694493/1-A	Method Blank	Total/NA	Water	9012	694493
LCS 480-694493/2-A	Lab Control Sample	Total/NA	Water	9012	694493

Analysis Batch: 694657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-215302-1	IDW-11302023	Total/NA	Water	9034	694497
MB 480-694497/1-A	Method Blank	Total/NA	Water	9034	694497
LCS 480-694497/2-A	Lab Control Sample	Total/NA	Water	9034	694497

Lab Chronicle

Client: Parsons Corporation
Project/Site: Avangrid - McMaster Street

Job ID: 480-215302-1

Client Sample ID: IDW-11302023

Lab Sample ID: 480-215302-1

Date Collected: 11/30/23 10:30
Matrix: Water
Date Received: 12/01/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	694204	AXK	EET BUF	12/04/23 18:00
Total/NA	Prep	3510C			694005	LSC	EET BUF	12/01/23 14:13
Total/NA	Analysis	8270D		1	694261	EMD	EET BUF	12/05/23 16:36
Total/NA	Prep	3510C			694010	LSC	EET BUF	12/01/23 14:18
Total/NA	Analysis	8081B		1	694102	JLS	EET BUF	12/04/23 10:51
Total/NA	Prep	3510C			694196	LSC	EET BUF	12/04/23 14:21
Total/NA	Analysis	8082A		1	694342	NC	EET BUF	12/05/23 16:15
Total/NA	Prep	8151A			694273	JMP	EET BUF	12/05/23 09:10
Total/NA	Analysis	8151A		20	694535	JLS	EET BUF	12/07/23 08:46
Total/NA	Prep	3005A			694035	ESB	EET BUF	12/04/23 08:11
Total/NA	Analysis	6010C		1	694316	BMB	EET BUF	12/04/23 23:34
Total/NA	Prep	3005A			694035	ESB	EET BUF	12/04/23 08:11
Total/NA	Analysis	6010C		1	694633	BMB	EET BUF	12/06/23 15:42
Total/NA	Prep	7470A			694135	NVK	EET BUF	12/04/23 11:34
Total/NA	Analysis	7470A		1	694215	NVK	EET BUF	12/04/23 14:54
Total/NA	Analysis	1010A		1	694150	KM	EET BUF	12/04/23 10:18
Total/NA	Prep	7.3.3			694493	AM	EET BUF	12/06/23 10:15
Total/NA	Analysis	9012		1	694517	AM	EET BUF	12/06/23 16:02
Total/NA	Prep	7.3.4			694497	AM	EET BUF	12/06/23 10:15
Total/NA	Analysis	9034		1	694657	AM	EET BUF	12/07/23 11:50
Total/NA	Analysis	9040C		1	694227	KB	EET BUF	12/04/23 15:26

Client Sample ID: MW-PAR-08-113023

Lab Sample ID: 480-215302-2

Date Collected: 11/30/23 11:00
Matrix: Water
Date Received: 12/01/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	694204	AXK	EET BUF	12/04/23 18:22
Total/NA	Prep	3510C			694005	LSC	EET BUF	12/01/23 14:13
Total/NA	Analysis	8270D		1	694261	EMD	EET BUF	12/05/23 17:04

Client Sample ID: TB-11302023

Lab Sample ID: 480-215302-3

Date Collected: 11/30/23 09:00
Matrix: Water
Date Received: 12/01/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	694018	AXK	EET BUF	12/02/23 01:17

Laboratory References:

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

Accreditation/Certification Summary

Client: Parsons Corporation
Job ID: 480-215302-1
Project/Site: Avangrid - McMaster Street

Laboratory: Eurofins Buffalo

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
1010A		Water	Flashpoint
8151A	8151A	Water	Picloram
9012	7.3.3	Water	Cyanide, Reactive
9034	7.3.4	Water	Sulfide, Reactive
9040C		Water	pH
9040C		Water	Temperature

Method Summary

Client: Parsons Corporation
Project/Site: Avangrid - McMaster Street

Job ID: 480-215302-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET BUF
8081B	Organochlorine Pesticides (GC)	SW846	EET BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET BUF
8151A	Herbicides (GC)	SW846	EET BUF
6010C	Metals (ICP)	SW846	EET BUF
7470A	Mercury (CVAA)	SW846	EET BUF
1010A	Ignitability, Pensky-Martens Closed-Cup Method	SW846	EET BUF
9012	Cyanide, Reactive	SW846	EET BUF
9034	Sulfide, Reactive	SW846	EET BUF
9040C	pH	SW846	EET BUF
3005A	Preparation, Total Metals	SW846	EET BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET BUF
5030C	Purge and Trap	SW846	EET BUF
7.3.3	Cyanide, Reactive	SW846	EET BUF
7.3.4	Sulfide, Reactive	SW846	EET BUF
7470A	Preparation, Mercury	SW846	EET BUF
8151A	Extraction (Herbicides)	SW846	EET BUF

Protocol References:

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

Laboratory References:

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

Sample Summary

Client: Parsons Corporation
Job ID: 480-215302-1
Project/Site: Avangrid - McMaster Street

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-215302-1	IDW-11302023	Water	11/30/23 10:30	12/01/23 10:30
480-215302-2	MW-PAR-08-113023	Water	11/30/23 11:00	12/01/23 10:30
480-215302-3	TB-11302023	Water	11/30/23 09:00	12/01/23 10:30

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing

Syracuse #225

Client Information	Sampler: Zack Cornish	Lab PM: Schove, John R	Carrier Tracking No(s):	COC No: 480-189528-36389.1
Client Contact: Cathy Adamitis	Phone: 607-354-6482	E-Mail: John.Schove@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: Parsons Corporation	PWSID:			Job #:
Address: 301 Plainfield Road Suite 350	Due Date Requested:			
City: Syracuse	TAT Requested (days): STANDARD			
State, Zip: NY, 13212	Compliance Project: Δ Yes Δ No			
Phone:	PO #: 452562.452563.60214.07			
Email: catherine.adamitis@parsons.com	WO #: 452562.02000			
Project Name: Avangrid - McMaster Street	Project #: 48024388			
Site:	SSOW#:			

Analysis Requested

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)	8082A - TCL PCBs	8081B - TCL Pesticides	8270D - TCL SVOCs	6010C, 7470A	8260C - TCL VOCs	8151A - Herbicides	9012_ReactiveCN, 9034_Reactive	9040C - pH - Corrosivity	1010A - Ignitability/Flashpoint	8270D - PAH Semivol+Lites	8260C - BTEX	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	D	A	N	N	N	N				
IDW-11302023	11/30/23	1030	C	Water	N	N	2	2	2	1	3	2	1	1	1				
MW-PAR-08-113023	11/30/23	1100	G	Water	N	N										2	3		
TB-11302023	11/30/23	0900	G	W	N	N					2								

480-215302 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

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

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Zack Cornish	11/30/23 1600	PARSONS	Lwatkle	12/1/23 1030	TAS
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: #1 2.8

Ver: 06/08/2021

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Y - Trizma
	Z - other (specify)

Other:

Login Sample Receipt Checklist

Client: Parsons Corporation

Job Number: 480-215302-1

Login Number: 215302
List Number: 1
Creator: Yeager, Brian A

List Source: Eurofins Buffalo

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	PARSONS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Appendix D – Photographic Log

Observations:

Photographs 1 and 2 show the Isolated individuals of Japanese knotweed (*Reynoutria japonica*) at McMaster Street former MGP during the September invasive species assessment. Photos 3 and 4 show comprehensive vegetation plots during the September comprehensive vegetation plot analysis. Photos 5 and 6 show surviving dogwood (*Cornus* sp.) and red chokeberry (*Aronia arbutifolia*) during the September vegetation survey.

Photograph 1

Photograph 2

Photograph 3

Photograph 4

Photograph 5

Photograph 6

Appendix E – Site Management Form

Institutional and Engineering Controls Inspection Form

I. Site Information

Site No.: **7-06-010** Site Name: **McMaster Street Former Manufactured Gas Plant**

Site Address: **30 McMaster Street** Zip Code: **13021**

City/Town: **Auburn, NY** County: **Cayuga**

Current Use: vacant unimproved gravel lot

II. Site Conditions

- Physical characteristics of the Site-flat, open gravel lot with some paved areas adjacent, vegetated banks along the river
- Current Site operations- annual groundwater and quarterly NAPL monitoring, annual inspection. Invasive species management as needed.

III. Site Inspection Checklist

	YES	NO
1. Has some or all of the Site property been sold, subdivided, merged, or undergonea tax map amendment since the initial/last certification? 9/12/23: NO		
If YES, is documentation or evidence that documentation has been previously submitted included with this certification?		
2. Have any amendments and/or additional filings been recorded that maymodify or supersede the Environmental Easement? 9/12/23: NO		
If YES, is documentation or evidence that documentation has been previously submitted included with this certification?		

3. Have any federal, state, and/or local permits (e.g., building permit) beenissued for or at the property since the initial/last certification?

   9/12/23: NO

   If YES, is documentation or evidence that documentation has been previously submitted included with this certification?

4. Has there been an actual or pending zoning or land-use change for the RestrictedArea on which the Environmental Easement is filed?

   If YES, is documentation or evidence that documentation has been previously submitted included with this certification?

   9/12/23: NO

5. Have periodic inspections of the Site identified any excavation or other disturbance activities that have taken place within the institutional control areas or other areas subject to the Site Management Plan?

   9/12/23: NO

6. Is the Site cover in good working condition, free of excess wear and tear, and without obvious signs of failure? Note any observed deficiencies.

   9/12/23: Site is in good condition; vegetation cover is excellent, no bare areas or erosion were observed.

   If YES, is the new information or evidence that new information has been previously submitted included with this Certification?

   9/12/23: Yes, this is new information, included above.

Control Certification Statement

For each Institutional or Engineering control listed above, I certify by checking "Yes" that all of the following statements are true:

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

(d) 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;

(e) if a financial assurance mechanism is required under the oversight document for the site, the mechanism remains valid and sufficient for the intended purpose under the document;

(f) use of the site is compliant with the Environmental Easement;

(g) the information presented in this report is accurate and complete;

(h) no new information has come to my attention, including groundwater monitoring data from wells located at the site boundary, if any, to indicate that the assumptions made in the qualitative exposure assessment of off- site contamination are no longer valid; and

(i) the assumptions made in the qualitative exposure assessment remain valid.

IC/EC CERTIFICATIONS SITE NO. 7-06-010

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I Levia Terrell (print name) at 18 Link Drive, Binghamton, New York 13902 (print business address),

am certifying as OWNER (Owner or Remedial Party) for the Site named in the Site Information Section of this form.

LeviaTerrll

Owner or Remedial Party Rendering Certification

June 6, 2024

Date

QUALIFIED ENVIRONMENTAL PROFESSIONAL (QEP) SIGNATURE

I, Jeffrey Poulsen, PG. at Parsons, 40 LaRiviere Dr, Suite 122, Buffalo, NY 14202 am certifying as a Qualified Environmental Professional for the Site named in the Site Information Section of this form.

June 6, 2024

Signature of Qualified Environmental Professional, for the Owner or Remedial Party, Rendering Certification.

Stamp (if Required)

Date