Department of Environmental Conservation

KATHY HOCHUL
Governor

AMANDA LEFTON
Commissioner

November 24, 2025

New York State Electric & Gas Corp. (NYSEG)
Levia Terrell
18 Link Drive
Binghamton, NY 13902

Re: Quarterly NAPL Monoitoring and Annual Sampling Update
NYSEG - Auburn McMaster St. MGP
Auburn, Cayuga County
NYSDEC Site No. 706010

Dear Levia Terrell (as the Certifying Party):

The NYSDEC has reviewed your Quarterly NAPL Monitoring and Annual Sampling Update, dated May 5, 2025. Additionally, a review completed by Ramboll on behalf NYSDEC is attached. Based on these reviews the NYSDEC hereby accepts this report with comments provided below.

- Section 5.1 (Vegetation Monitoring and Invasive Species Treatment) indicates a comprehensive vegetation plot analysis, and a trees and shrubs inventory were completed on October 3, 2024. Please provide all supporting documentation to show that the goals of vegetation monitoring and invasive species treatment have been met in accordance with the SMP.

- Please incorporate the recommendations provided by Ramboll in future monitoring and sampling updates for this site.

If you have any questions, or need additional forms, contact me at 518-603-3163 or e-mail: tracey.garland@dec.ny.gov.

Sincerely,

Tracey Garland

Tracey Garland
Project Manager

ec:
Jeffrey Poulsen, Parsons (as consultant for NYSEG)
Anne Burnham, Parsons (as consultant for NYSEG)
Scott Tucker, Ramboll (as consultant for NYSDEC)
Gerald Pratt, NYDEC Environmental Remediation
Harolyn Hood, NYSDOH Bureau of Environmental Exposure Investigation
Jenny Murtaugh, NYSDEC Fish and Wildlife

RAMBOLL

ENVIRONMENT
& HEALTH

Tracey Garland, GIT
Division of Environmental Remediation
New York State Department of Environmental Conservation
625 Broadway
Albany, New York 12233-5060

Re: NYSEG Auburn McMaster Street Former MGP
2024 Annual Report

Date September 12, 2025

Dear Mr. Garland:

Per Work Assignment D009810-42, Ramboll has reviewed the attached Annual Report prepared by Parsons for the reporting period of 2024, for the Auburn McMaster Street Former MGP Site No. 706010 (the Site) for compliance with the Site Management Plan (SMP) and associated regulatory documents.

Based on the review, Ramboll finds the 2024 Annual Report to generally be in compliance with the SMP. If NYSDEC finds Section 5.1 acceptable and Ramboll's comments unnecessary to address, the report should be considered accepted with the remaining suggested edits. Please see Ramboll's comments on the following pages.

Yours sincerely

Deborah Wright
Project Officer

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Attachments: 1 – Report review comments
2 – SMP compliance checklist
3 – 2024 Annual Report for the Auburn McMaster Street Former MGP Site, prepared by Parsons for NYSEG and NYSDEC, dated May 5, 2025

cc: Scott Tucker – Ramboll
Luke Reusser – Ramboll

RAMBOLL

ENVIRONMENT
& HEALTH

Report Review Comments

Site Name: **Auburn McMaster Street Former MGP**

Site No.: **706010**

Site Owner: **NYSEG**

Report Title: **2024 Annual Report**

Prepared By: **Parsons**

Report Date: 9**/12/2025**

Report Type: Annual Update Report

Review By: Ramboll Americas Engineering Solutions, Inc.

Reviewed For: Tracy Garland, GIT, DER NYSDEC

Comments

Activities conducted in 2024 by Parsons and presented in the 2024 Annual Report (AR), dated May 5, 2025, are in compliance with the current SMP (Parsons, 2021).

- Refer to the SMP compliance checklist below for details.

The introduction indicates the site is 1.93-acres; however, the NYSDEC database indicates the site is 1.2-acres and several of other documents indicate the site is 1-acre. Please verify correct acreage.

Section 3.2 (Groundwater Analytical Results – 2024), paragraph three, states: "The concentrations of BTEX were summed for each of the groundwater samples collected. The highest concentration of BTEX was 168.2 ug/L in MW-PAR-08 (September 2024)." This sample does have the highest total BTEX; however, the correct total BTEX is 184.2 µg/L.

- Benzene = 140 µg/L
- Ethylbenzene = 23 µg/L
- Toluene = 4.2 µg/l
- Xylenes = 17 µg/L
- Total = 184.2 µg/L

Section 3.2 (Groundwater Analytical Results – 2024), paragraph four, states: "Groundwater analytical results for target PAHs exceeded criteria in MW-PAR-08. The highest detection for a single analyte was 35 ug/L of Naphthalene in MW-PAR-08 (September 2024)." Phenanthrene was also detected at 35 µg/L. Revise the sentence to reflect phenanthrene.

Section 4.0 (NAPL Removal), paragraph two, states: "No evidence for NAPL has been observed on any of the socks or measured with the (oil-interface probe). Sock weight has not been observed to increase." Additional explanation may be needed to clarify the above statement. Additionally, it may be advantageous to remove socks to evaluate potential NAPL accumulation in well recovery well sumps.

- Table 3 of the 2024 AR indicates that, based on initial vs. final sock masses from the recovery wells, a total 1.98 kilograms of NAPL was removed in 2024.

Section 5.1 (Vegetation Monitoring and Invasive Species Treatment) indicates a comprehensive vegetation plot analysis and a trees and shrubs inventory were completed. Provide the supporting documentation to support review of statement made in this section of the report.

Table 1

- Note 1 in Table 1 indicates TOC elevation is NAVD88, while note 2 indicates TOC elevation is feet above mean sea level. Identify datum in note 2. If the datum is different, note that contours in Figure 2A may be incorrect, as mixing datum when contouring is not recommended.
- The calculated groundwater elevation for MW-06-10 appears to be incorrect. The elevation, based on the provided data, should be 654.81.

Table 2

- O-Xylene NYSDEC Class GA value
  - Update to Class GA value of 5 µg/L, update highlighting
- Pyrene NYSDEC Class GA value
  - Update to Class GA value of 50 µg/L
- The fourth note indicates shading represents an exceedance of the Class GA Criteria/Standard
  - Consider revising to include guidance values

Figure 2A

- The groundwater elevation identified on the figure for well MW-06-10 (654.81) does not match the elevation presented in Table 1 (672.81)

Figure 3

- The xylene result presented for the 9/23/24 sample at well MW-PAR-08 is incorrectly presented as 1 µg/L and should read 17 µg/L

2024 Annual Report Recommendations by Parsons

- In accordance with the SMP, the goals of vegetation monitoring and invasive species treatment have been met and the monitoring period for these activities is concluded. Parsons recommends discontinuing annual vegetative reviews.
- Parsons recommends that the NAPL collection socks remain in the wells but monitoring and collection be changed from a quarterly to a semiannual frequency.
- 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 2025.
- 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 2025.

Ramboll Recommendations

Ramboll agrees with the recommendation provided by Parsons in the 2024 AR. Specifically:

- Discontinuing the annual vegetative reviews.
- Reducing the change-out frequency of the NAPL collection socks from quarterly to semi-annually in the recovery wells and sumps.
- Continue groundwater sampling at MW-PAR-08 on a quarterly basis.
- Continue groundwater sampling of the other monitoring wells included in the program on an annual basis.

Ramboll recommends that Parsons continue to provide annual NAPL removal tables, such as Table 3 in the 2024 AR, in future ARs.

- In future ARs, Ramboll recommends that Parsons include a brief discussion regarding the year-to-year differences in the mass of NAPL removed from the recovery wells based on final vs. initial sock masses.

If NYSDEC would like to request documentation supporting Section 5.1 statements, further review can be completed.

Ramboll recommends that the 2024 AR prepared by Parsons be accepted with incorporation of the above comments, and if NYSDEC finds Section 5.1 acceptable as presented.

Auburn McMaster Street Former MGP

NYSDEC Site No. 706010

2021 Site Management Plan Compliance Checklist (Parsons)

For Report:

2024 Annual Report (Parsons)

RAMBOLL Recommendation
Based on the current SMP dated 2021, Ramboll finds the 2024 Annual Report to be in compliance with the SMP and recommends the report be accepted.

Engineering Controls
Cover System (Cap) - The cover system is comprised of a minimum of 12 inches of imported backfill material that meets Part 375-6.8 requirements for commercial use (See figures 2 & 4). - EWP provided in Appendix F.
NAPL Collection Trenches, Concrete Seal, and NAPL Collection Wells - A NAPL collection trench was installed at the Site and adjacent properties along the Owasco Outlet bank at and into the fractured bedrock to mitigate potential interaction between NAPL in the fractured bedrock with the overlying sediments and surface water. - 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 and where excavation was completed to fractured bedrock. - Remaining MGP-related contamination in the fractured bedrock in the Owasco Outlet channel is contained below a concrete seal coat to prevent recontamination of sediment. - Contaminants are expected to flow to two collection sumps installed within the NAPL collection trenchs where they will be removed for off-site disposal. - Three bedrock NAPL collection wells (RW-01 to RW-03)were installed in 2021 on the eastern portion of the south bank of the Owasco Outlet. The well depths are between 22 and 25 feet, allowing the well sump to be set within the competent bedrock zone and the collection to be within the fractured bedrock zone.
Groundwater Monitoring - Annual groundwater monitoring will be conducted annually as summarized below.

Monitoring and Sampling Plan	Frequency	Compliant	Ramboll Notes
Site-Wide Inspection - Performed annually (minimum) and after sever weather conditions. - Site inspection form to be filled out (Appendix J).	Annually	**Yes**	Site-wide inspection performed on 10/3/2024. - Site observed to be in good condition with no bare areas or erosion.
Invasive Species Inspection & Maintenance - Starting in 2020, invasive species on the NYSDEC prohibited plant species list may occupy no more that 5% of restored area. - Annual vegetative survey to be conducted to determine the extent of invasive species. IS Man Plan (Appendix K).	Annually (2021 to 2024)	**Yes**	9/12/2024 - Invasive species treatment to patches of Japanese knotweed.
Streambank Integrity Monitoring & Reporting - Beginning in 2021 and continuing until 2024, an annual erosion and vegetation integrity survey will be conducted to assess streambank integrity. If any deficiencies are found, the location and nature of the deficiency will be recorded.	Annually (2021 to 2024)	**Partially**	Not addressed explicitly in the text. - IC/EC inspection form describes the river banks as vegetated. - Streambank appear well vegetated in the photographic Log.
Ecological Buffer Zone Monitoring & Reporting - Beginning in 2021 and continuing until 2024, an annual vegetative survey will be conducted to assess the percent survival of plantings located within the ecological buffer zone. Monitoring activities will include a comprehensive vegetation plot analysis to determine whether the Site is meeting performance goal of 85 percent cover for perennial vegetative cover and a survey of percent survival of planted trees and shrubs.	Annually (2021 to 2024)	**Yes**	10/2/2024 - Comprehensive vegetative plot analysis performed. - 5 veg plots. 100% cover, exceeding 85% goal. - 36% of trees and shrubs planted in 2018 surviving. - Natural recolonization occurring.

NAPL Monitoring and Recovery - Quarterly collection of NAPL is recommended at the Site for two years. Following two years of NAPL collection, the frequency of monitoring will be evaluated in conjunction with NYSDEC (See section 4.5 for and Appendix E for details). - Quarterly deployment and retrieval of absorbent socks. - CS-1 and CS-2 - Collection sumps - RW-1, RW-2, RW-3 - Bedrock NAPL collection wells	Quarterly for 2 years Revaluate after	**Yes**	Absorbent socks deployed and retrieved quarterly in 2024 from the three NAPL recovery wells and two collection trench sumps. - March, June, September & November 2024. - No evidence of MGP contaminants in the wells or sumps. - Statement in text that sock weights have not increased contradicts results in Table 3.
Groundwater Monitoring and Sampling - Refer to Appendix E for details. - PFAS and 1,4-dioxane collected during initial event. - BTEX and Total PAHs Annually - 5 wells Upgradient - MW-06-09. Onsite - MW-06-10 & MW-04-06. Downgradient - MW-PAR-08 & MW-PAR-09.	Annually MW-PAR-08 quarterly starting in Q3 of 2022	**Yes**	Water Levels gauged on 9/23/24 in OVB and BR wells. - Groundwater contours for OVB generated and GW flow inferred for bedrock. Annual GW sampling conducted at all wells. Quarterly GW sampling conducted at PAR-08.
Operation and Maintenance Plan	Frequency	Compliant	Ramboll Notes
The site remedy does not rely on any mechanical systems, such as groundwater treatment systems, sub-slab depressurization systems or air sparge/soil vapor extraction systems to protect public health and the environment. Therefore, the operation and maintenance of such components is not included in the SMP.			
Reporting Requirements			
Site Inspection Reporting	Frequency	Compliant	Ramboll Notes
To be included in the Annual Report.	Annually	**Yes**	Site management form and photographic log included in the Annual Report.
Invasive Species Reporting	Frequency	Compliant	Ramboll Notes
To be included in the Annual Report.	Annually	**Yes**	Discussed in the report and photographic log included in Annual Report.
Streambank Integrity Reporting	Frequency	Compliant	Ramboll Notes
To be included in the Annual Report.	Annually	**Partially**	Not addressed explicitly in the text. - IC/EC inspection form describes the river banks as vegetated. - Streambanks appear well vegetated in the photographic Log.
Ecological Buffer Zone Reporting	Frequency	Compliant	Ramboll Notes
To be included in the Annual Report.	Annually	**Yes**	Discussed in the Annual Report. Exceeding 85% goal.
NAPL Monitoring & Recovery Reporting	Frequency	Compliant	Ramboll Notes
To be included in the Annual Report.	Annually	**Yes**	Absorbent socks retrieved and deployed quarterly. Results and discussion included in the Annual Report
Groundwater Sampling Reporting	Frequency	Compliant	Ramboll Notes
To be included in the Annual Report.	Annually	**Yes**	Annual water levels and cantors presented in the Annual Report. Annual and quarterly GW results included and discussed in the Annual Report. Consistency between text, table, and figure.
Periodic Review Report (including cert of ECs/ICs)	Frequency	Compliant	Ramboll Notes

- IC/EC certification form. - Site Inspection results. - Data summary tables and graphical representations. - Analytical results and laboratory reports. - Site evaluation - Needed repairs, new observations, recommendations, trends in contaminant levels, overall performance and effectiveness of the remedy.	Annually	NA	NA
Corrective Measures Workplan	Frequency	Compliant	Ramboll Notes
If any component of the remedy is found to have failed, or if the periodic certification cannot be provided due to the failure of an institutional or engineering control, a Corrective Measures Work Plan will be submitted to the NYSDEC for approval.	As Needed	NA	NA
Remedial Site Optimization Report	Frequency	Compliant	Ramboll Notes
Not discussed in the SMP.	NA	NA	NA
Additional Activities Included in the 2024 Annual Report			
None			
Recommendations (Parsons)			
In accordance with the SMP, the goals of vegetation monitoring and invasive species treatment have been met and the monitoring period for these activities is concluded. Parsons recommends discontinuing annual vegetative reviews.			
Parsons recommends that the NAPL collection socks remain in the wells but monitoring and collection be changed to a semiannual frequency.			
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 2025.			
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 2025.			

Ramboll Recommendations Checklist	Addressed by RP	Ramboll Notes
Ramboll agrees with the recommendation provided by Parsons in the 2024 Annual Report.		
Ramboll finds the 2024 Annual Report to be in compliance with the SMP and recommends that the report be accepted.		

PARSONS

Phone: 315.451.9560
301 Plainfield Road, Suite 350 | Syracuse, New York 13212

MEMORANDUM

May 5, 2025

To: Tracey Garland, New York State Department of Environmental Conservation

From: Jeffrey Poulsen 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 2024.

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 2024 was the three-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 and 2024. 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 have been completed annually since 2020 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 – 2024

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 2024 annual groundwater sampling event on September 23, 2024. The water depths for overburden wells are presented in **Table 1**.

2.2 Bedrock Well Gauging Results – 2024

Three of the bedrock wells, or wells that are screened partially or completely within bedrock (RW-01. RW-02 and RW-03), were gauged during the 2024 annual groundwater sampling event on September 23, 2024. 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 2024 annual groundwater sampling event and the quarter three sampling for MW-PAR-08 was completed on September 23, 2024. Groundwater samples collected during 2024 annual monitoring were analyzed for VOCs, specifically benzene, toluene, ethylbenzene, and xylenes (BTEX), and total polycyclic aromatic hydrocarbons (PAHs) as specified in the SMP. Quarterly samples were collected from MW-PAR-08 and analyzed for the same parameters specified above.

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

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 September 2024. Additionally, a sample was collected at MW-PAR-08 each quarter in 2024 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 – 2024

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.

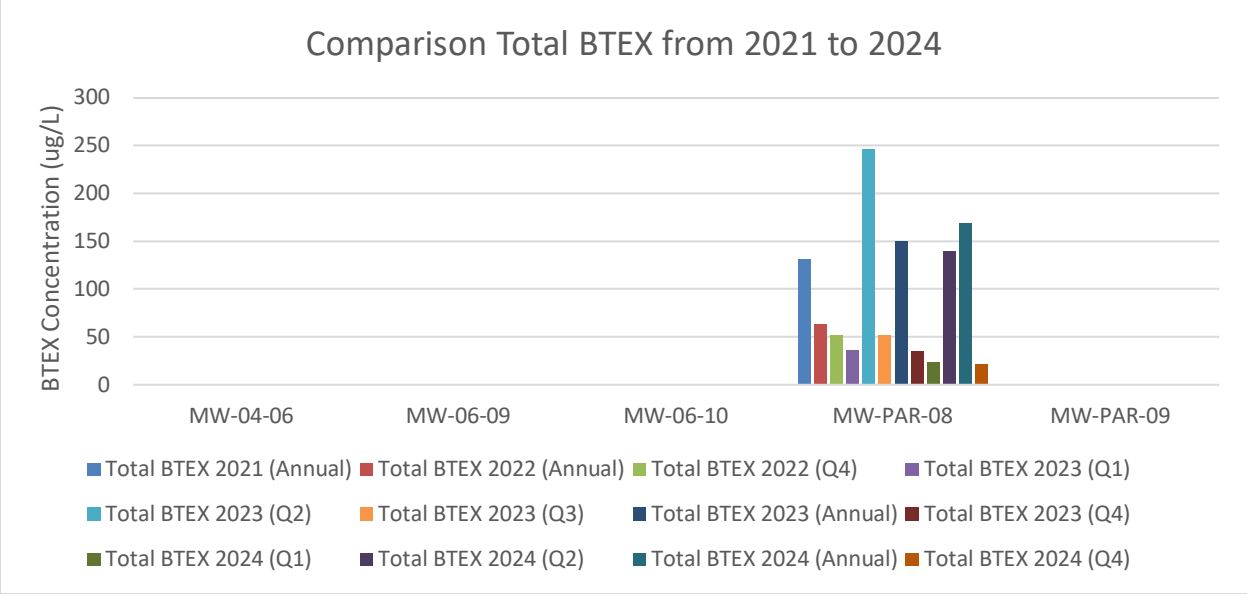
Groundwater analytical results for target VOCs exceeded criteria in MW-PAR-08. The highest detection for a single analyte was 140 micrograms per liter (ug/L) of benzene in MW-PAR-08 from the sample collected in September 2024. VOCs concentrations in MW-04-06, MW-06-09, MW-06-10, and MW-PAR-09 were below detection limits.

The concentrations of BTEX were summed for each of the groundwater samples collected. The highest concentration of BTEX was 168.2 ug/L in MW-PAR-08 (September 2024).

Groundwater analytical results for target PAHs exceeded criteria in MW-PAR-08. The highest detection for a single analyte was 35 ug/L of Naphthalene in MW-PAR-08 (September 2024).

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. There

has never been detected BTEX in monitoring wells MW-04-06, MW-06-09, MW-06-10, and MW-PAR-09 since the start of sampling in 2021.



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 MPG related smearing or staining has been observed on the absorbent socks during replacement events. There has been no evidence of NAPL collection in either of the trenches since they have been installed.

[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.

Recommendations to reduce the frequency of sock changes for the trenches is detailed below. This is consistent with observations during well installation, with no evidence of NAPL observed during bedrock core evaluation.

Absorbent socks were inspected and replaced in March 2024, June 2024, September 2024, and November 2024. The absorbent socks used in 2024 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 3**).

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 2024. Specific efforts that were completed in 2024 include the summarized activities below and are represented in a photographic log provided in **Appendix D.**

- September 12, 2024: Invasive species treatment was performed on isolated patches of Japanese knotweed (*Reynoutria japonica*).
- October 3, 2024: A comprehensive vegetation plot analysis was performed.

The fifth year of comprehensive vegetation plot analysis was completed on October 3, 2024 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.), 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 switchgrass (*Panicum virgatum*), flat-topped goldenrod (*Euthamia graminifolia*), 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, 36 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 53 percent and speckled alder (*Alnus incana* ssp. *rugosa*) had the lowest rate of survival at zero percent. Of the trees planted in 2018, 60 percent of silver maple (*Acer saccharinum*), 20 percent of black willow (*Salix nigra*), and zero percent of red maple (*Acer rubrum*) were found surviving on site in 2024. In 2018, five cottonwoods (*Populus deltoides*) were planted on site. However, due to the presence of numerous naturally colonized cottonwoods which far exceed the number planted in 2018, it was difficult to determine what was planted and what has naturally colonized. Two other early successional tree species, box elder (*Acer*

negundo) and staghorn sumac (*Rhus typhina*), have also colonized the Site. Overall, the naturally colonizing species combined with the surviving planted species far outnumber the quantity of trees originally planted in 2018.

On September 12, 2024, isolated patches of Japanese knotweed were spot treated with herbicide by Licensed Pesticide Applicators. The isolated patches of Japanese knotweed (*Reynoutria japonica*) were last treated in 2022 and were reduced to a few individuals in 2023. During the comprehensive vegetation monitoring on October 3, 2024, it was noted that the treated patches of Japanese knotweed were dead and no remaining living stems were found (**Figure 4**).

The fifth annual vegetation survey results show that the ecological buffer zone has exceeded the vegetation performance goal of 85 percent cover. Planted trees and shrubs are well established and are supplemented by vigorous native early successional species. Invasive species treatment performed in 2024 has successfully removed the remaining small patches of Japanese knotweed. In accordance with the SMP, the goals of vegetation monitoring and invasive species treatment have been met and the monitoring period for these activities is concluded.

5.2 Erosion Inspection

In accordance with the SMP, a sitewide inspection was completed on October 3, 2024, 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 through 2024. The review completed in 2024 showed that the overall percent cover of seeded areas was 100 percent, exceeding the performance goal of 85 percent cover, the Site supports many planted and naturally colonized trees and shrubs, and invasive species treatment has been successful. In accordance with the SMP, the goals of vegetation monitoring and invasive species treatment have been met and the monitoring period for these activities is concluded.

In accordance with the 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. 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 2025. 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 2025.

7.0 References

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

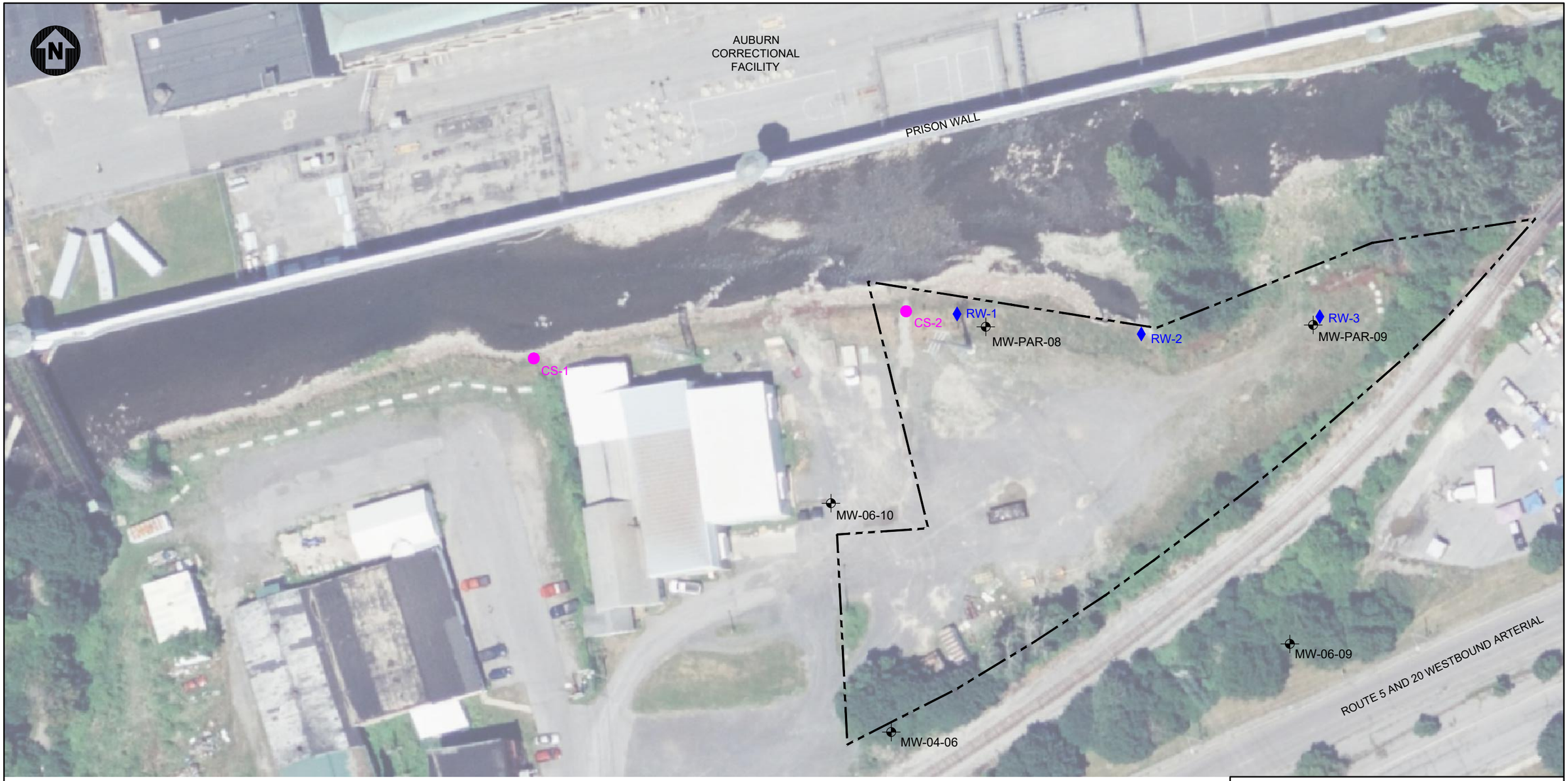
Encl: Figure 1 – Site Plan
Figure 2a – Groundwater Flow Direction (Overburden) September 2024
Figure 2b – Groundwater Flow Direction (Bedrock)
Figure 3 – Groundwater Sampling Results
Figure 4 – Vegetation Plots and Invasive Species Areas

Table 1 – Water Level Gauging Data (2024)
Table 2 – Groundwater Analytical Results (2024)
Table 3 – Non-Aqueous Phase Liquid (NAPL) Removal (2024)

Appendix A – Low Flow Groundwater Sampling Logs
Appendix B – Data Usability Summary Reports
Appendix C – Eurofins Level 2 Laboratory Analytical Reports
Appendix D –2024 Monitoring and Maintenance Summary Photographic Log
Appendix E –Site Management Form

cc:
Anne Burnham (Parsons)
Zack Cornish (Parsons)
Scott Tucker (Rambol)

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'

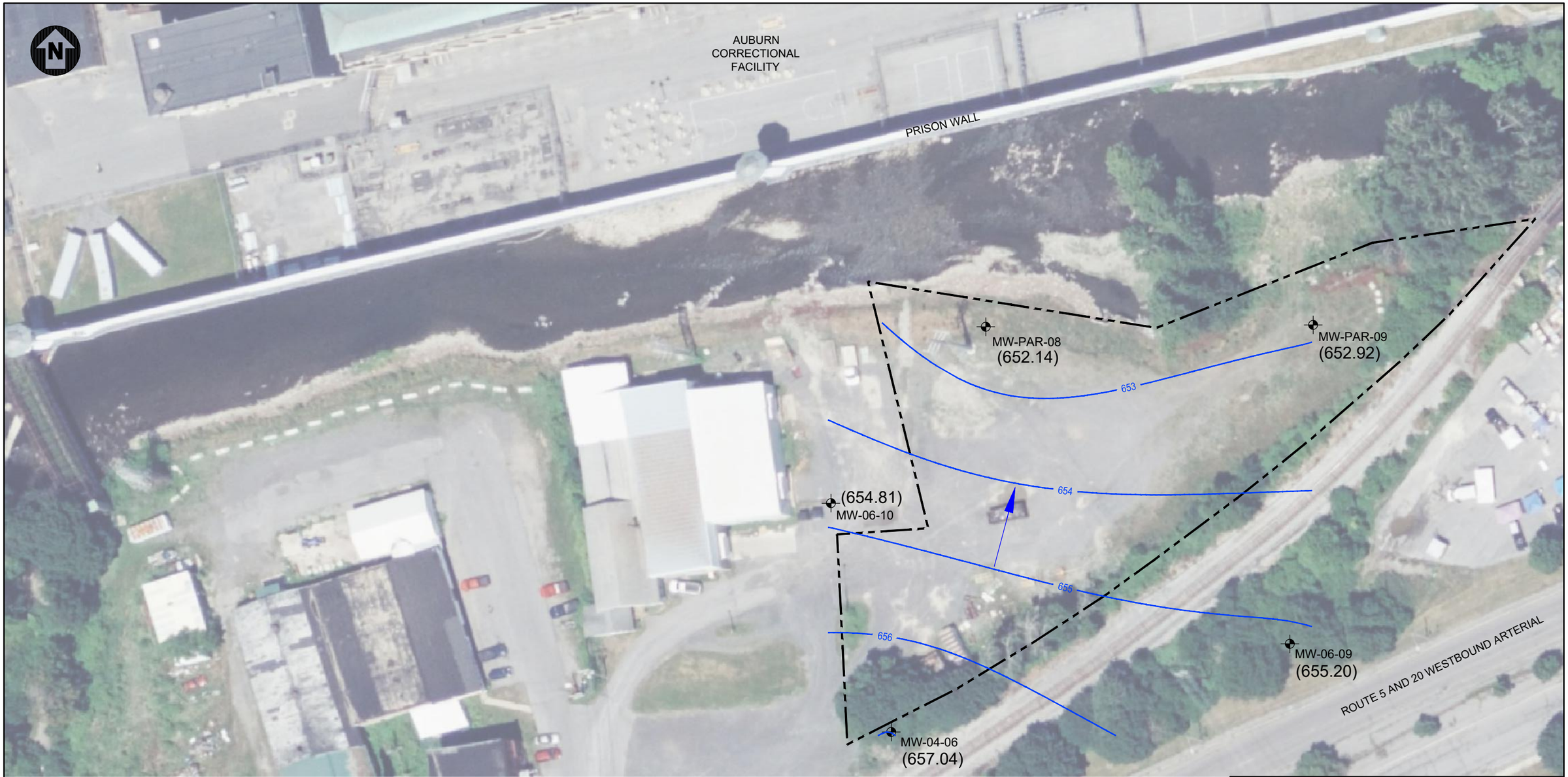
FIGURE 1

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\454023 - NY-NYSEG MCMASTER ST LONG TERM OMM\10.0 TECHNICAL CATEGORIES\CAD\MCMASTER\2024 ANNUAL SAMPLING REPORT\FIGURE 1 SITE PLAN.DWG
PLOT DATE: 4/1/2025 11:43 AM PLOTTED BY: NASSIMOS, JEFFREY [US-US]



LEGEND:

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

60 30 0 60 120

SCALE: 1"=60'

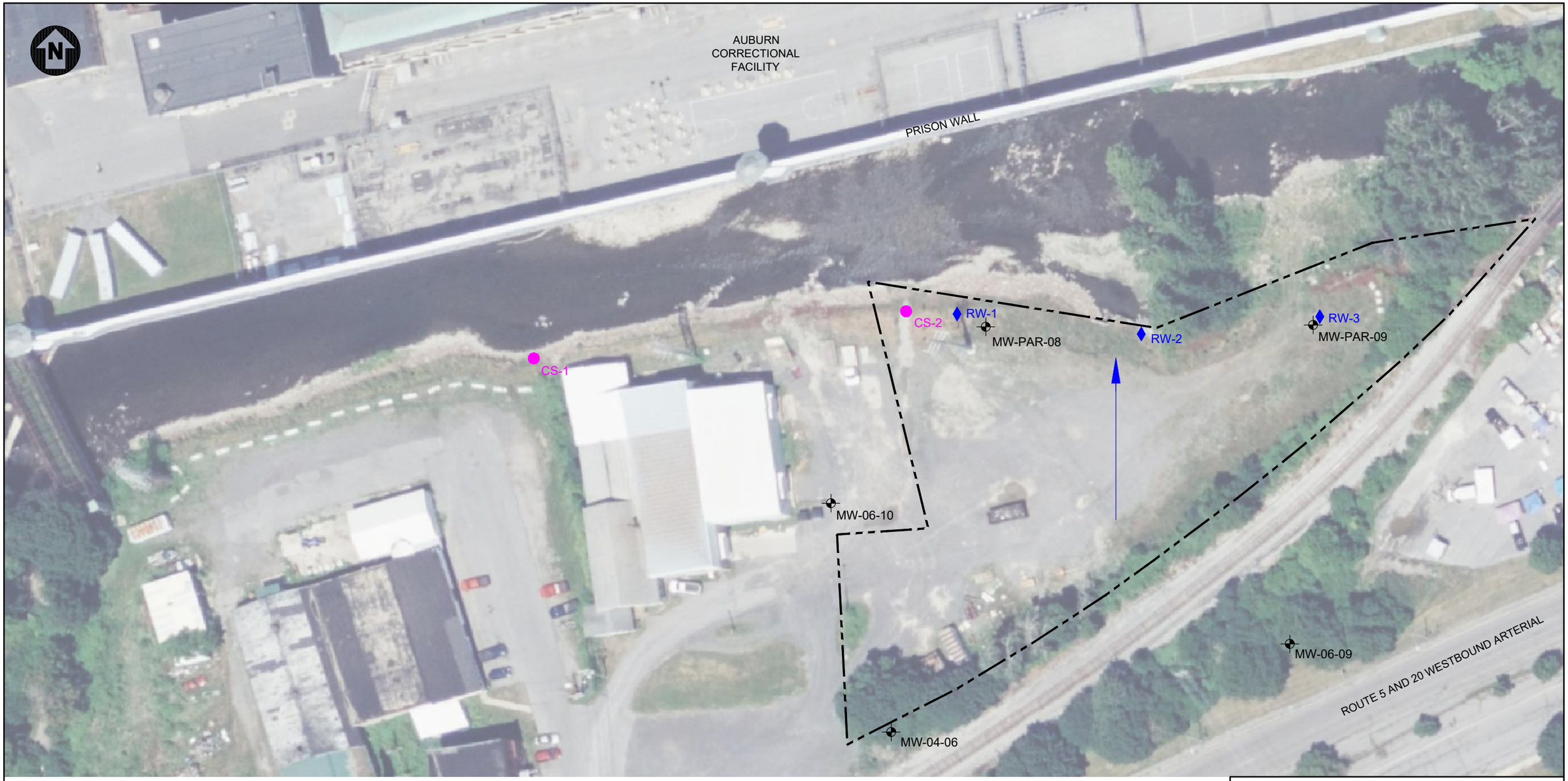
FIGURE 2A

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

GROUNDWATER FLOW DIRECTION (OVERBURDEN) SEPTEMBER 2024

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

FILE NAME: P:\IBERDROLA_AVANGRID\454023 - NY-NYSEG MCMASTER ST LONG TERM OMM\10.0 TECHNICAL CATEGORIES\CAD\MCMASTER\2024 ANNUAL SAMPLING REPORT\FIGURE 2A GROUNDWATER FLOW DIRECTION (OVERBURDEN).DWG
PLOT DATE: 4/1/2025 11:35 AM PLOTTED BY: NASSIMOS, JEFFREY [US-US]



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'

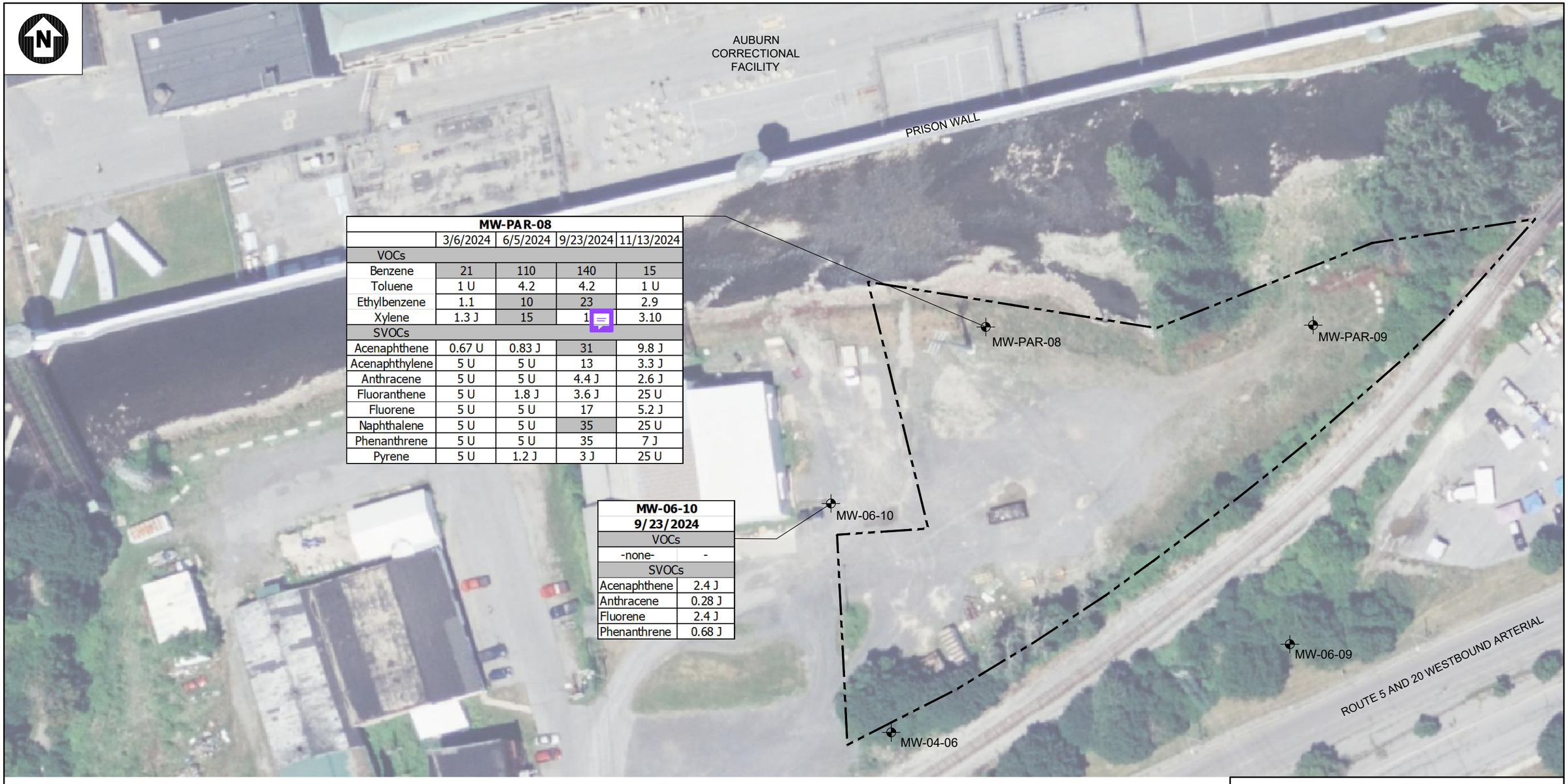
FIGURE 2B

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

GROUNDWATER FLOW DIRECTION
(BEDROCK)

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

FILE NAME: P:\IBERDROLA_AVANGRID\454023 - NY-NYSEG MCMASTER ST LONG TERM OMM\10.0 TECHNICAL CATEGORIES\CAD\MCMASTER\2024 ANNUAL SAMPLING REPORT\FIGURE 2B GROUNDWATER FLOW DIRECTION (BEDROCK).DWG
PLOT DATE: 4/1/2025 11:48 AM PLOTTED BY: NASSIMOS, JEFFREY [US-US]



MW-PAR-08				
	3/6/2024	6/5/2024	9/23/2024	11/13/2024
VOCs				
Benzene	21	110	140	15
Toluene	1 U	4.2	4.2	1 U
Ethylbenzene	1.1	10	23	2.9
Xylene	1.3 J	15	1	3.10
SVOCs				
Acenaphthene	0.67 U	0.83 J	31	9.8 J
Acenaphthylene	5 U	5 U	13	3.3 J
Anthracene	5 U	5 U	4.4 J	2.6 J
Fluoranthene	5 U	1.8 J	3.6 J	25 U
Fluorene	5 U	5 U	17	5.2 J
Naphthalene	5 U	5 U	35	25 U
Phenanthrene	5 U	5 U	35	7 J
Pyrene	5 U	1.2 J	3 J	25 U

MW-06-10 9/23/2024	
VOCs	
-none-	-
SVOCs	
Acenaphthene	2.4 J
Anthracene	0.28 J
Fluorene	2.4 J
Phenanthrene	0.68 J

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 AND MW-06-10 ARE SHOWN FOR THE REPORTING PERIOD. NO COMPOUNDS EXCEEDING THE NYS CLASS GA STANDARDS CRITERIA OR MDL WERE DETECTED IN MW-04-06, MW-06-09, OR MW-PAR-09 DURING THE REPORTING PERIOD.

60 30 0 60 120

SCALE: 1"=60'

FIGURE 3

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

GROUNDWATER SAMPLING RESULTS

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

FILE NAME: P:\IBERDROLA_AVANGRID\454023 - NY-NYSEG MCMASTER ST LONG TERM OMM\10.0 TECHNICAL CATEGORIES\CAD\MCMASTER\2024 ANNUAL SAMPLING REPORT\FIGURE 3 GROUNDWATER SAMPLING RESULTS.DWG
PLOT DATE: 4/1/2025 10:37 AM PLOTTED BY: NASSIMOS, JEFFREY [US-US]

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

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

FILE NAME: P:\IBERDROLA_AVANGRID\452562 & 452563 AUBURN CLARK & MCMASTER STREETS\08 TECHNICAL\CAD\MCMASTER ST\ANNUAL REPORT FIGURES\FIGURE 4 VEGETATION PLOTS AND INVASIVE SPECIES AREAS.DWG
PLOT DATE: 6/3/2024 9:03 AM PLOTTED BY: NASSIMOS, JEFFREY [US-US]

Tables

TABLE 1

McMASTER STREET
WATER LEVEL GAUGING DATA
2024

Well ID	TOC Elevation (ft)	Screened Interval (feet bgs)	Sump Interval (feet bgs)	Hydrologic Unit Code [3]	Water Depth (ft btoc) March 2024	Product Thickness (ft) March 2024	Water Depth (ft btoc) June 2024	Product Thickness (ft) June 2024	Water Depth (ft btoc) September 2024	Product Thickness (ft) September 2024	Groundwater Elevation (ft amsl) September 2024	Product Thickness (ft) November 2024	Water Depth (ft btoc) November 2024
RW-01	658.81 [1]	9.8 - 19.8	19.8 - 25.1	BR	5.5	0.0	6.62	0.0	6.85	0.0	651.96	0.0	6.14
RW-02	659.59 [1]	6.9 - 16.9	16.9 - 22.3	BR	5.33	0.0	6.82	0.0	8.91	0.0	650.68	0.0	5.9
RW-03	663.4 [1]	8.1 - 18.1	18.1 - 23.2	BR	9.05	0.0	9.69	0.0	10.00	0.0	653.40	0.0	9.71
MW-PAR-08	658.53 [1]	6.5 - 11.5	NA	OB	4.43	NM*	6.28	NM*	6.39	NM*	652.14	NM*	5.13
MW-PAR-09	663.22 [1]	6.0 - 16.0	NA	OB	NM*	NM*	NM*	NM*	10.3	NM*	652.92	NM*	NM*
MW-04-06	668.07 [2]	4.9 - 14.9	NA	OB	NM*	NM*	NM*	NM*	11.03	NM*	657.04	NM*	NM*
MW-06-09	662.34 [2]	5.2 - 15.2	NA	OB	NM*	NM*	NM*	NM*	7.14	NM*	655.20	NM*	NM*
MW-06-10	657.76 [2]	3.0 - 8.0	NA	OB	NM*	NM*	NM*	NM*	2.95	NM*	672.81	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 2

McMASTER STREET
GROUNDWATER ANALYTICAL RESULTS
2024

			Location ID	MW-04-06	MW-06-09	MW-06-10	MW-PAR-08	MW-PAR-08	MW-PAR-08	MW-PAR-08	MW-PAR-09
			Field Sample ID	MW-04-06-09232024	MW-06-09-09232024	MW-06-10-09232024	MW-PAR-08-03062024	MW-PAR-08-06052024	MW-PAR-08-09232024	MW-PAR-08-11132024	MW-PAR-09-09232024
			Matrix	WG	WG	WG	WG	WG	WG	WG	WG
			Lab Sample ID	480-223684-4	480-223684-1	480-223684-8	480-217606-1	480-220523-1	480-223684-5	480-225451-1	480-223684-6
			Sample Date	9/23/2024	9/23/2024	9/23/2024	3/6/2024	6/5/2024	9/23/2024	11/13/2024	9/23/2024
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	21	110	140	15	1 U
Ethylbenzene	100-41-4	ug/L	5	1 U	2 U	2 U	1.1	10	23	2.9	1 U
Toluene	108-88-3	ug/L	5	1 U	2 U	2 U	1 U	4.2	4.2	1 U	1 U
Xylenes	1330-20-7	ug/L	5	2 U	4 U	4 U	1.3 J	15	17	3.1	2 U
m,p-Xylene	179601-23-1	ug/L	NS	2 U	4 U	4 U	1.3 J	10	10	1.8 J	2 U
o-Xylene	95-47-6	ug/L	NS	1 U	2 U	2 U	1 U	5	6.7	1.3	1 U
Semivolatile Organic Compounds (Method 8270)											
Acenaphthene	83-32-9	ug/L	20	5 U	5.2 U	2.4 J	0.67 J	0.83 J	31	9.8 J	5 U
Acenaphthylene	208-96-8	ug/L	NS	5 U	5.2 U	5 U	5 U	5 U	13	3.3 J	5 U
Anthracene	120-12-7	ug/L	50	5 U	5.2 U	0.28 J	5 U	5 U	4.4 J	2.6 J	5 U
Benzo(A)Anthracene	56-55-3	ug/L	0.002	5 U	5.2 U	5 U	5 U	5 U	5 U	25 U	5 U
Benzo(A)Pyrene	50-32-8	ug/L	ND	5 U	5.2 U	5 U	5 U	5 U	5 U	25 U	5 U
Benzo(B)Fluoranthene	205-99-2	ug/L	0.002	5 U	5.2 U	5 U	5 U	5 U	5 U	25 U	5 U
Benzo(G,H,I)Perylene	191-24-2	ug/L	NS	5 U	5.2 U	5 U	5 U	5 U	5 U	25 U	5 U
Benzo(K)Fluoranthene	207-08-9	ug/L	0.002	5 U	5.2 U	5 U	5 U	5 U	5 U	25 U	5 U
Chrysene	218-01-9	ug/L	0.002	5 U	5.2 U	5 U	5 U	5 U	5 U	25 U	5 U
Dibenz(A,H)Anthracene	53-70-3	ug/L	NS	5 U	5.2 U	5 U	5 U	5 U	5 U	25 U	5 U
Fluoranthene	206-44-0	ug/L	50	5 U	5.2 U	5 U	5 U	1.8 J	3.6 J	25 U	5 U
Fluorene	86-73-7	ug/L	50	5 U	5.2 U	2.4 J	5 U	5 U	17	5.2 J	5 U
Indeno(1,2,3-C,D)Pyrene	193-39-5	ug/L	0.002	5 U	5.2 U	5 U	5 U	5 U	5 U	25 U	5 U
Naphthalene	91-20-3	ug/L	10	5 U	5.2 U	5 U	5 U	5 U	35	25 U	5 U
Phenanthrene	85-01-8	ug/L	50	5 U	5.2 U	0.68 J	5 U	5 U	35	7 J	5 U
Pyrene	129-00-0	ug/L	NS	5 U	5.2 U	5 U	5 U	1.2 J	3 J	25 U	5 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 3

McMASTER STREET
Non-Aqueous Phase Liquid (NAPL) Removal
2024

	March 2024			June 2024			September 2024			November 2024			2024 Cumulative
Well ID	Sock Mass Initial (g)	Sock Mass Final (g)	Mass Removed (g)	Sock Mass Initial (g)	Sock Mass Final (g)	Mass Removed (g)	Sock Mass Initial (g)	Sock Mass Final (g)	Mass Removed (g)	Sock Mass Initial (g)	Sock Mass Final (g)	Mass Removed (g)	Volume Removed (gal)
RW-01	430	550	120	410	500	90	260	410	150	320	500	180	0.141
RW-02	440	480	40	320	540	220	260	360	100	320	650	330	0.18
RW-03	400	620	220	330	470	140	290	360	70	300	620	320	0.20
CS-01	0	0	0	0	0	0	0	0	0	0	0	0	0.00
CS-02	0	0	0	0	0	0	0	0	0	0	0	0	0.00

TOTAL NAPL REMOVED (2024) (KG)	1.98
TOTAL NAPL REMOVED (2024) (gal)	0.5

Notes:
(g): grams

PARSONS

Appendix A – Groundwater Sampling Logs

Low Flow Ground Water Sampling Log

Date	03/06/24	Personnel	JS	Weather	50 F, Showers
Site Name	McMaster St.	Evacuation Method	Geo Pump	Well #	MW-PAR-08
Site Location	Auburn NY	Sampling Method	Low Flow	Project #	452562

Well information:

Depth of Well	11.09 ft.	*Measurements taken from:		
Depth to Water	4.43 ft.		X	Top of Well Casing
H_{wc}	6.66 ft.			Top of Protective Casing
Depth to Intake	9.09 ft.			(Other, Specify)

Start Purge Time: 1515

		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	4.55	10.62	6.84	0.580	178	1.38	6.5	150
10	4.6	10.2	7.11	0.566	159	1.45	0	100
15	4.59	9.49	7.14	0.565	157	1.29	0	100
20	4.6	8.81	7.17	0.530	133	2.5	0	100
25	4.64	8.53	7.15	0.529	113	2.64	0	100
30	4.65	7.16	7.12	0.529	95	3.41	0	100
35	4.63	6.95	7.12	0.526	79	3.6	0	100
40	4.63	6.93	7.12	0.522	77	3.82	0	100
45	4.64	6.93	7.13	0.514	70	3.85	0	100

End Purge Time: 1045

Water Sample

Time Collected: 1055

Total volume of purged water removed: 5 (gallons)

Physical appearance at start:

Color Clear

Odor Organic and Hydrocarbon

Sheen/Free Product None

Physical appearance at start:

Color Clear

Odor None

Sheen/Free Product None

Samples: (See list of parameters collected below)

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	06/05/24	Personnel	J. Sullivan	Weather	Clear Skies, 88F
Site Name	McMaster Street	Evacuation Method	Geo-Pump	Well #	MW-PAR-08
Site Location	Auburn NY	Sampling Method	Low-Flow	Project #	452562

Well information:

Depth of Well	11.04 ft.	*Measurements taken from:	
Depth to Water	6.28 ft.	X	Top of Well Casing
H_{wc}	4.76 ft.		Top of Protective Casing
Depth to Intake	9.00 ft.		(Other, Specify)

Start Purge Time: 10:10

		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	6.50	28.76	8.04	0.0002	127	8.05	108	250
10	6.53	28.98	8.93	0.0002	108	8.01	108	200
15	6.55	29.52	8.01	0.002	107	0.01	107	200
20	6.54	29.91	7.75	0.583	-115	0.79	1.6	200
25	6.50	18.57	7.45	0.599	-84	0.74	0.0	200
30	6.60	17.63	7.32	0.618	-71	0.67	0.0	200
35	6.61	17.09	7.25	0.628	-67	0.50	0.0	200
40	6.64	16.86	7.20	0.637	-62	0.48	0.0	200
45	6.65	16.89	7.15	0.643	-59	0.45	0.0	200

End Purge Time: 11:04

Water Sample

Time Collected: 11:10

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) **n/a**

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

Low Flow Ground Water Sampling Log

Date	09/23/24	Personnel	Zack Cornish	Weather	Cloudy, 66
Site Name	McMaster	Evacuation Method	Geo Pump	Well #	MW-04-06
Site Location	Auburn, NY	Sampling Method	Low Flow	Project #	452562

Well information:

Depth of Well	14.3 ft.	*Measurements taken from:	
Depth to Water	11.03 ft.	X	Top of Well Casing
H_{wc}	3.27 ft.		Top of Protective Casing
Depth to Intake	12.5 ft.		(Other, Specify)

Start Purge Time: 12:40

		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)**
10	12.15	12.92	6.98	1.2	24	0.94	0	150
15	12.18	12.89	6.98	1.19	22	0.72	0.5	150
20	12.7	12.68	6.97	1.18	17	0.3	0	150
25	12.9	12.55	6.98	1.18	18	0.19	0	100
30	13	12.5	6.98	1.19	16	0.1	0	100
35	13.35	12.48	6.98	1.19	17	0.09	0	100
40	13.4	12.49	6.98	1.2	18	0.08	0	100

End Purge Time: 13:20

Water Sample

Time Collected: 13:25

Total volume of purged water removed: 1.5 (gallons)

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

Samples: (See list of parameters collected below)

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

Low Flow Ground Water Sampling Log

Date	09/23/24	Personnel	Zack Cornish	Weather	Cloudy, 66
Site Name	McMaster	Evacuation Method	Geo Pump	Well #	MW-06-09
Site Location	Auburn, NY	Sampling Method	Low Flow	Project #	452562

Well information:

Depth of Well	14.4 ft.	*Measurements taken from:	
Depth to Water	7.17 ft.	X	Top of Well Casing
H_{wc}	7.23 ft.		Top of Protective Casing
Depth to Intake	11 ft.		(Other, Specify)

Start Purge Time: 11:20

		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	7.9	16.73	7.21	3.34	-172	0.61	240	200
10	8.05	16.39	7.21	3.37	-181	0.66	213	200
15	8.05	16.2	73	3.38	-197	0.75	180	200
20	8.36	16.03	7.34	3.39	-203	0.73	100	200
25	8.41	15.96	7.34	3.39	-205	0.71	52	150
30	8.45	15.88	7.35	3.4	-206	0.64	10	150
35	8.5	15.72	7.35	3.4	-207	0.56	0	150
40	8.51	15.59	7.35	3.41	-208	0.51	0	150
45	8.53	15.58	7.36	3.41	-209	0.5	0	150

End Purge Time: 12:00

Water Sample

Time Collected: 12:05

Total volume of purged water removed: 2 (gallons)

Physical appearance at start:		Physical appearance at start:	
Color	Brown	Color	Slight red
Odor	None	Odor	None
Sheen/Free Product	None	Sheen/Free Product	None

Samples: (See list of parameters collected below) **FD-09232024 @12:15**

YES MS/MSD/Dup collected

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

Low Flow Ground Water Sampling Log

Date	09/23/24	Personnel	Evan Zelenz	Weather	Cloudy, 60s
Site Name	McMaster	Evacuation Method	Peri	Well #	MW-06-10
Site Location	Auburn, NY	Sampling Method	Low Flow	Project #	452562

Well information:

Depth of Well	7.25	ft.
Depth to Water	2.95	ft.
H_{wc}	4.3	ft.
Depth to Intake	4.5	ft.

*Measurements taken from:

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 14:10

		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	3.05	18.74	6.21	0.705	-185	0.74	62	240
10	3.05	18.84	6.12	0.653	-179	0.46	227	240
15	3.05	18.96	6.06	0.653	-176	0.38	65	240
20	3.05	18.99	6.05	0.655	-176	0.37	35.5	240
25	3.05	19.01	6.06	0.656	-177	0.33	28.2	240
30	3.05	19.03	6.06	0.657	-177	0.32	27.3	200
35	3.05	19.03	6.06	0.658	-177	0.29	25.4	200

End Purge Time: 14:47

Water Sample

Time Collected: 14:50

Total volume of purged water removed: 2 (gallons)

Physical appearance at start:

Color: Grey
Odor: Petro
Sheen/Free Product: None

Physical appearance at start:

Color: Grey
Odor: Petro
Sheen/Free Product: None

Samples: (See list of parameters collected below)

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

Low Flow Ground Water Sampling Log

Date	09/23/24	Personnel	Evan Zelenz	Weather	Cloudy, 60s
Site Name	McMaster	Evacuation Method	Peri	Well #	MW-PAR-08
Site Location	Auburn, NY	Sampling Method	Low Flow	Project #	452562

Well information:

Depth of Well	11.09	ft.
Depth to Water	6.39	ft.
H_{wc}	4.7	ft.
Depth to Intake	8	ft.

*Measurements taken from:

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 12:25

		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	7.37	16.27	6.57	0.565	-185	0.81	3.9	210
10	7.43	16.98	6.7	0.56	-192	0.66	4.7	210
15	7.42	16.55	6.76	0.559	-196	0.53	5.81	220
20	7.45	16.67	6.77	0.564	-199	0.44	3.9	220
25	7.45	16.73	6.76	0.569	-203	0.4	2.9	220
30	7.45	16.79	6.74	0.572	-206	0.39	3	220
35	7.45	16.8	6.76	0.575	-207	0.38	3.4	220

End Purge Time: 13:00

Water Sample

Time Collected: 13:05

Total volume of purged water removed: 2.5 (gallons)

Physical appearance at start:

Color	Clear
Odor	Petro
Sheen/Free Product	None

Physical appearance at start:

Color	Clear
Odor	Petro
Sheen/Free Product	None

Samples: (See list of parameters collected below)

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

Low Flow Ground Water Sampling Log

Date	09/23/24	Personnel	Evan Zelenz	Weather	Cloudy, 60s
Site Name	McMaster	Evacuation Method	Peri	Well #	MW-PAR-09
Site Location	Auburn, NY	Sampling Method	Low Flow	Project #	452562

Well information:

Depth of Well	15.9 ft.	*Measurements taken from:	
Depth to Water	10.3 ft.	X	Top of Well Casing
H_{wc}	5.6 ft.		Top of Protective Casing
Depth to Intake	12 ft.		(Other, Specify)

Start Purge Time: 14:10

		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	10.55	13.61	6.07	1.25	-153	0.71	665	300
10	10.55	13.74	6.05	1.24	-159	0.48	150	280
15	10.55	14.07	6.08	1.26	-162	0.46	112	280
20	10.55	14.09	6.11	1.27	-164	0.47	88.7	280
25	10.57	14.02	5.91	1.27	-165	0.43	50.7	280
30	10.57	14.03	5.91	1.29	-167	0.4	42.8	280
35	10.57	13.95	5.94	1.29	-168	0.36	35.1	280
40	10.57	13.93	5.95	1.29	-168	0.35	15.6	280
45	10.56	13.97	5.97	1.3	-169	0.35	13	280
50	10.56	13.98	5.99	1.21	-170	0.33	15.9	280
55	10.57	13.81	6	1.3	-170	0.33	15.4	280

End Purge Time: 11:08

Water Sample

Time Collected: 11:10

Total volume of purged water removed: 4.5 (gallons)

Physical appearance at start:		Physical appearance at start:	
Color	Brown	Color	Clear
Odor	Petro	Odor	Petro
Sheen/Free Product	Slight Sheen	Sheen/Free Product	Slight Sheen

Samples: (See list of parameters collected below)

NONE

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

Low Flow Ground Water Sampling Log

Date	11/13/24	Personnel	Joe S., Zack C.	Weather	Cloudy, Sunny
Site Name	McMaster	Evacuation Method	Peri	Well #	MW-PAR-08
Site Location	Auburn, NY	Sampling Method	Low Flow	Project #	452562

Well information:

Depth of Well	10.78 ft.	*Measurements taken from:		
Depth to Water	5.13 ft.		X	Top of Well Casing
H_{wc}	5.65 ft.			Top of Protective Casing
Depth to Intake	7 ft.			(Other, Specify)

Start Purge Time: 09:50

		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	5.15	14.32	7.76	0.622	-119	1.72	4.7	200
10	5.2	14.34	7.77	0.625	-128	0.25	4	200
15	5.2	14.4	7.77	0.644	-144	0.05	2.3	200
20	5.2	14.41	7.76	0.654	-151	0	1.5	200
25	5.2	14.4	7.75	0.665	-152	0	1	200
30	5.2	14.43	7.74	0.68	-152	0	1.1	200
35	5.2	14.45	7.74	0.681	-150	0	0.2	200
40	5.2	14.47	7.73	0.68	-148	0	0.1	200
45	5.2	14.48	7.69	0.681	-147	0	0.1	200

End Purge Time: 10:35

Water Sample

Time Collected: 10:40

Total volume of purged water removed: 2.2 (gallons)

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

Samples: (See list of parameters collected below)

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

Appendix B – Data Usability Summary Report (2024)

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

MAY 2024

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LIST OF ATTACHMENTS

SECTION 1 DATA USABILITY SUMMARY

Groundwater samples were collected from the Iberdrola McMaster Street site in Auburn, New York on March 6, 2024. 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 day 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 group (SDG) 480-217606-1. 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 with the exception of LCS recoveries as discussed below.

LCS Recoveries

All LCS recoveries were considered acceptable and within QC limits with the exception of the high LCS recovery for benzene (126%R; QC limit 71-124%R) associated with the QC trip blank. Validation qualification was not required for the affected sample.

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			
		Field Sample ID		TB-03062024		MW-PAR-08-03062024	
		Matrix		WQ		WG	
		Lab Sample ID		480-217606-2		480-217606-1	
		SDG		4802176061		4802176061	
		Sample Date		3/6/2024		3/6/2024	
		Sample Type Code		TB		N	
Analytical Method	Chemical Name	CAS_RN	Unit				
SW8260C	Benzene	71-43-2	ug/L	1	U	21	
SW8260C	Ethylbenzene	100-41-4	ug/L	1	U	1.1	
SW8260C	m,p-Xylene	179601-23-1	ug/L	2	U	1.3	J
SW8260C	O-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/L	1	U	1	U
SW8260C	Toluene	108-88-3	ug/L	1	U	1	U
SW8260C	Xylenes	1330-20-7	ug/L	2	U	1.3	J
SW8270D	Acenaphthene	83-32-9	ug/L			0.67	J
SW8270D	Acenaphthylene	208-96-8	ug/L			5	U
SW8270D	Anthracene	120-12-7	ug/L			5	U
SW8270D	Benzo(A)Anthracene	56-55-3	ug/L			5	U
SW8270D	Benzo(A)Pyrene	50-32-8	ug/L			5	U
SW8270D	Benzo(B)Fluoranthene	205-99-2	ug/L			5	U
SW8270D	Benzo(G,H,I)Perylene	191-24-2	ug/L			5	U
SW8270D	Benzo(K)Fluoranthene	207-08-9	ug/L			5	U
SW8270D	Chrysene	218-01-9	ug/L			5	U
SW8270D	Dibenz(A,H)Anthracene	53-70-3	ug/L			5	U
SW8270D	Fluoranthene	206-44-0	ug/L			5	U
SW8270D	Fluorene	86-73-7	ug/L			5	U
SW8270D	Indeno(1,2,3-C,D)Pyrene	193-39-5	ug/L			5	U
SW8270D	Naphthalene	91-20-3	ug/L			5	U
SW8270D	Phenanthrene	85-01-8	ug/L			5	U
SW8270D	Pyrene	129-00-0	ug/L			5	U

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

NOVEMBER 2024

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LIST OF ATTACHMENTS

SECTION 1 DATA USABILITY SUMMARY

Groundwater samples were collected from the Iberdrola McMaster Street site in Auburn, New York on June 5, 2024 and September 23, 2024. 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 5-9 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) 480-220523-1 and 480-223684-1. 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-04-06							
		Field Sample ID		EB-09232024		TB-06052024		TB-09232024		MW-04-06-09232024	
		Matrix		WQ		WQ		WQ		WG	
		Lab Sample ID		480-223684-7		480-220523-2		480-223684-3		480-223684-4	
		SDG		4802236841		4802205231		4802236841		4802236841	
		Sample Date		9/23/2024		6/5/2024		9/23/2024		9/23/2024	
		Sample Type Code		EB		TB		TB		N	
Analytical Method	Chemical Name	CAS_RN	Unit								
SW8260C	Benzene	71-43-2	ug/L	1	U	1	U	1	U	1	U
SW8260C	Ethylbenzene	100-41-4	ug/L	1	U	1	U	1	U	1	U
SW8260C	m,p-Xylene	179601-23-1	ug/L	2	U	2	U	2	U	2	U
SW8260C	O-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/L	1	U	1	U	1	U	1	U
SW8260C	Toluene	108-88-3	ug/L	1	U	1	U	1	U	1	U
SW8260C	Xylenes	1330-20-7	ug/L	2	U	2	U	2	U	2	U
SW8270D	Acenaphthene	83-32-9	ug/L	5	U					5	U
SW8270D	Acenaphthylene	208-96-8	ug/L	5	U					5	U
SW8270D	Anthracene	120-12-7	ug/L	5	U					5	U
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	5	U					5	U
SW8270D	Fluorene	86-73-7	ug/L	5	U					5	U
SW8270D	Indeno(1,2,3-C,D)Pyrene	193-39-5	ug/L	5	U					5	U
SW8270D	Naphthalene	91-20-3	ug/L	5	U					5	U
SW8270D	Phenanthrene	85-01-8	ug/L	5	U					5	U
SW8270D	Pyrene	129-00-0	ug/L	5	U					5	U

		Location ID		MW-06-09		MW-06-09		MW-06-10		MW-PAR-08	
		Field Sample ID		FD-09232024		MW-06-09-09232024		MW-06-10-09232024		MW-PAR-08-06052024	
		Matrix		WG		WG		WG		WG	
		Lab Sample ID		480-223684-2		480-223684-1		480-223684-8		480-220523-1	
		SDG		4802236841		4802236841		4802236841		4802205231	
		Sample Date		9/23/2024		9/23/2024		9/23/2024		6/5/2024	
		Sample Type Code		FD		N		N		N	
Analytical Method	Chemical Name	CAS_RN	Unit								
SW8260C	Benzene	71-43-2	ug/L	2	U	2	U	2	U	110	
SW8260C	Ethylbenzene	100-41-4	ug/L	2	U	2	U	2	U	10	
SW8260C	m,p-Xylene	179601-23-1	ug/L	4	U	4	U	4	U	10	
SW8260C	O-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/L	2	U	2	U	2	U	5	
SW8260C	Toluene	108-88-3	ug/L	2	U	2	U	2	U	4.2	
SW8260C	Xylenes	1330-20-7	ug/L	4	U	4	U	4	U	15	
SW8270D	Acenaphthene	83-32-9	ug/L	5.2	U	5.2	U	2.4	J	0.83	J
SW8270D	Acenaphthylene	208-96-8	ug/L	5.2	U	5.2	U	5	U	5	U
SW8270D	Anthracene	120-12-7	ug/L	5.2	U	5.2	U	0.28	J	5	U
SW8270D	Benzo(A)Anthracene	56-55-3	ug/L	5.2	U	5.2	U	5	U	5	U
SW8270D	Benzo(A)Pyrene	50-32-8	ug/L	5.2	U	5.2	U	5	U	5	U
SW8270D	Benzo(B)Fluoranthene	205-99-2	ug/L	5.2	U	5.2	U	5	U	5	U
SW8270D	Benzo(G,H,I)Perylene	191-24-2	ug/L	5.2	U	5.2	U	5	U	5	U
SW8270D	Benzo(K)Fluoranthene	207-08-9	ug/L	5.2	U	5.2	U	5	U	5	U
SW8270D	Chrysene	218-01-9	ug/L	5.2	U	5.2	U	5	U	5	U
SW8270D	Dibenz(A,H)Anthracene	53-70-3	ug/L	5.2	U	5.2	U	5	U	5	U
SW8270D	Fluoranthene	206-44-0	ug/L	5.2	U	5.2	U	5	U	1.8	J
SW8270D	Fluorene	86-73-7	ug/L	5.2	U	5.2	U	2.4	J	5	U
SW8270D	Indeno(1,2,3-C,D)Pyrene	193-39-5	ug/L	5.2	U	5.2	U	5	U	5	U
SW8270D	Naphthalene	91-20-3	ug/L	5.2	U	5.2	U	5	U	5	U
SW8270D	Phenanthrene	85-01-8	ug/L	5.2	U	5.2	U	0.68	J	5	U
SW8270D	Pyrene	129-00-0	ug/L	5.2	U	5.2	U	5	U	1.2	J

		Location ID		MW-PAR-08		MW-PAR-09	
		Field Sample ID		MW-PAR-08-09232024		MW-PAR-09-09232024	
		Matrix		WG		WG	
		Lab Sample ID		480-223684-5		480-223684-6	
		SDG		4802236841		4802236841	
		Sample Date		9/23/2024		9/23/2024	
		Sample Type Code		N		N	
Analytical Method	Chemical Name	CAS_RN	Unit				
SW8260C	Benzene	71-43-2	ug/L	140		1	U
SW8260C	Ethylbenzene	100-41-4	ug/L	23		1	U
SW8260C	m,p-Xylene	179601-23-1	ug/L	10		2	U
SW8260C	O-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/L	6.7		1	U
SW8260C	Toluene	108-88-3	ug/L	4.2		1	U
SW8260C	Xylenes	1330-20-7	ug/L	17		2	U
SW8270D	Acenaphthene	83-32-9	ug/L	31		5	U
SW8270D	Acenaphthylene	208-96-8	ug/L	13		5	U
SW8270D	Anthracene	120-12-7	ug/L	4.4	J	5	U
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	3.6	J	5	U
SW8270D	Fluorene	86-73-7	ug/L	17		5	U
SW8270D	Indeno(1,2,3-C,D)Pyrene	193-39-5	ug/L	5	U	5	U
SW8270D	Naphthalene	91-20-3	ug/L	35		5	U
SW8270D	Phenanthrene	85-01-8	ug/L	35		5	U
SW8270D	Pyrene	129-00-0	ug/L	3	J	5	U

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 2025

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LIST OF ATTACHMENTS

SECTION 1 DATA USABILITY SUMMARY

Groundwater samples were collected from the Iberdrola McMaster Street site in Auburn, New York on November 13, 2024. 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 7 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 group (SDG) 480-225451-1. 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	
			Field Sample ID	MW-PAR-08-11132024	
			Matrix	WG	
			Lab Sample ID	480-225451-1	
			SDG	4802254511	
			Sample Date	11/13/2024	
			Sample Type Code	N	
Analytical Method	Chemical Name	CAS_RN	Unit		
SW8260C	Benzene	71-43-2	ug/L	15	
SW8260C	Ethylbenzene	100-41-4	ug/L	2.9	
SW8260C	m,p-Xylene	179601-23-1	ug/L	1.8	J
SW8260C	O-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/L	1.3	
SW8260C	Toluene	108-88-3	ug/L	1	U
SW8260C	Xylenes	1330-20-7	ug/L	3.1	
SW8270D	Acenaphthene	83-32-9	ug/L	9.8	J
SW8270D	Acenaphthylene	208-96-8	ug/L	3.3	J
SW8270D	Anthracene	120-12-7	ug/L	2.6	J
SW8270D	Benzo(A)Anthracene	56-55-3	ug/L	25	U
SW8270D	Benzo(A)Pyrene	50-32-8	ug/L	25	U
SW8270D	Benzo(B)Fluoranthene	205-99-2	ug/L	25	U
SW8270D	Benzo(G,H,I)Perylene	191-24-2	ug/L	25	U
SW8270D	Benzo(K)Fluoranthene	207-08-9	ug/L	25	U
SW8270D	Chrysene	218-01-9	ug/L	25	U
SW8270D	Dibenz(A,H)Anthracene	53-70-3	ug/L	25	U
SW8270D	Fluoranthene	206-44-0	ug/L	25	U
SW8270D	Fluorene	86-73-7	ug/L	5.2	J
SW8270D	Indeno(1,2,3-C,D)Pyrene	193-39-5	ug/L	25	U
SW8270D	Naphthalene	91-20-3	ug/L	25	U
SW8270D	Phenanthrene	85-01-8	ug/L	7	J
SW8270D	Pyrene	129-00-0	ug/L	25	U

Appendix C – Eurofins Level 2 Laboratory Analytical Reports

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Cathy Adamitis
Parsons Corporation
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Syracuse, New York 13212

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JOB DESCRIPTION

Avangrid - McMaster Street

JOB NUMBER

480-217606-1

Eurofins Buffalo
10 Hazelwood Drive
Amherst NY 14228-2298

See page two for job notes and contact information.

Eurofins Buffalo

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

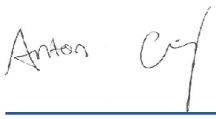

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Table of Contents

Definitions/Glossary

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

Job ID: 480-217606-1

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.

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: 480-217606-1 Eurofins Buffalo

Job Narrative
480-217606-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 3/7/2024 11:00 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 time was 3.3°C.

GC/MS VOA
Method 8260C: The laboratory control sample (LCS) for analytical batch 480-703026 recovered outside control limits for the following analyte: Benzene. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported. The associated sample is impacted: TB-03062024 (480-217606-2).

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

GC/MS Semi VOA
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: 480-217606-1

Client Sample ID: MW-PAR-08-03062024 — Lab Sample ID: 480-217606-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	21		1.0	0.41	ug/L	1		8260C	Total/NA
Ethylbenzene	1.1		1.0	0.74	ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	1.3	J	2.0	0.66	ug/L	1		8260C	Total/NA
Xylenes, Total	1.3	J	2.0	0.66	ug/L	1		8260C	Total/NA
Acenaphthene	0.67	J	5.0	0.41	ug/L	1		8270D	Total/NA

Client Sample ID: TB-03062024 — Lab Sample ID: 480-217606-2

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample Results

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

Job ID: 480-217606-1

Client Sample ID: MW-PAR-08-03062024

Date Collected: 03/06/24 10:55
Date Received: 03/07/24 11:00

Lab Sample ID: 480-217606-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**21**		1.0	0.41	ug/L			03/11/24 15:57	1
Toluene	1.0	U	1.0	0.51	ug/L			03/11/24 15:57	1
Ethylbenzene	**1.1**		1.0	0.74	ug/L			03/11/24 15:57	1
m-Xylene & p-Xylene	**1.3**	**J**	2.0	0.66	ug/L			03/11/24 15:57	1
o-Xylene	1.0	U	1.0	0.76	ug/L			03/11/24 15:57	1
Xylenes, Total	**1.3**	**J**	2.0	0.66	ug/L			03/11/24 15:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*109*		*80 - 120*		*03/11/24 15:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*77 - 120*		*03/11/24 15:57*	*1*
4-Bromofluorobenzene (Surr)	*108*		*73 - 120*		*03/11/24 15:57*	*1*
Dibromofluoromethane (Surr)	*105*		*75 - 123*		*03/11/24 15:57*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.67**	**J**	5.0	0.41	ug/L		03/12/24 10:27	03/13/24 15:45	1
Acenaphthylene	5.0	U	5.0	0.38	ug/L		03/12/24 10:27	03/13/24 15:45	1
Anthracene	5.0	U	5.0	0.28	ug/L		03/12/24 10:27	03/13/24 15:45	1
Benzo(a)anthracene	5.0	U	5.0	0.36	ug/L		03/12/24 10:27	03/13/24 15:45	1
Benzo(a)pyrene	5.0	U	5.0	0.47	ug/L		03/12/24 10:27	03/13/24 15:45	1
Benzo(b)fluoranthene	5.0	U	5.0	0.34	ug/L		03/12/24 10:27	03/13/24 15:45	1
Benzo(g,h,i) perylene	5.0	U	5.0	0.35	ug/L		03/12/24 10:27	03/13/24 15:45	1
Benzo(k)fluoranthene	5.0	U	5.0	0.73	ug/L		03/12/24 10:27	03/13/24 15:45	1
Chrysene	5.0	U	5.0	0.33	ug/L		03/12/24 10:27	03/13/24 15:45	1
Dibenz(a,h)anthracene	5.0	U	5.0	0.42	ug/L		03/12/24 10:27	03/13/24 15:45	1
Fluoranthene	5.0	U	5.0	0.40	ug/L		03/12/24 10:27	03/13/24 15:45	1
Fluorene	5.0	U	5.0	0.36	ug/L		03/12/24 10:27	03/13/24 15:45	1
Ideno(1,2,3-cd)pyrene	5.0	U	5.0	0.47	ug/L		03/12/24 10:27	03/13/24 15:45	1
Naphthalene	5.0	U	5.0	0.76	ug/L		03/12/24 10:27	03/13/24 15:45	1
Phenanthrene	5.0	U	5.0	0.44	ug/L		03/12/24 10:27	03/13/24 15:45	1
Pyrene	5.0	U	5.0	0.34	ug/L		03/12/24 10:27	03/13/24 15:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*92*		*48 - 120*	*03/12/24 10:27*	*03/13/24 15:45*	*1*
Nitrobenzene-d5 (Surr)	*79*		*46 - 120*	*03/12/24 10:27*	*03/13/24 15:45*	*1*
p-Terphenyl-d14 (Surr)	*75*		*60 - 148*	*03/12/24 10:27*	*03/13/24 15:45*	*1*

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

Job ID: 480-217606-1

Client Sample ID: TB-03062024

Date Collected: 03/06/24 10:00
Date Received: 03/07/24 11:00

Lab Sample ID: 480-217606-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U *+	1.0	0.41	ug/L			03/08/24 16:43	1
Toluene	1.0	U	1.0	0.51	ug/L			03/08/24 16:43	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			03/08/24 16:43	1
m-Xylene & p-Xylene	2.0	U	2.0	0.66	ug/L			03/08/24 16:43	1
o-Xylene	1.0	U	1.0	0.76	ug/L			03/08/24 16:43	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			03/08/24 16:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*80 - 120*		*03/08/24 16:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*77 - 120*		*03/08/24 16:43*	*1*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*03/08/24 16:43*	*1*
Dibromofluoromethane (Surr)	*105*		*75 - 123*		*03/08/24 16:43*	*1*

Surrogate Summary

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

Job ID: 480-217606-1

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)
480-217606-1	MW-PAR-08-03062024	109	109	108	105
480-217606-2	TB-03062024	98	95	103	105
LCS 480-703026/6	Lab Control Sample	97	93	105	99
LCS 480-703213/9	Lab Control Sample	110	108	109	109
LCSD 480-703026/25	Lab Control Sample Dup	94	91	100	99
LCSD 480-703213/37	Lab Control Sample Dup	106	108	102	109
MB 480-703026/8	Method Blank	96	91	100	101
MB 480-703213/11	Method Blank	109	107	109	104

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)
480-217606-1	MW-PAR-08-03062024	92	79	75
LCS 480-703394/2-A	Lab Control Sample	96	94	92
MB 480-703394/1-A	Method Blank	85	73	82

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 480-703026/8
Matrix: Water
Analysis Batch: 703026

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			03/08/24 12:36	1
Toluene	1.0	U	1.0	0.51	ug/L			03/08/24 12:36	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			03/08/24 12:36	1
m-Xylene & p-Xylene	2.0	U	2.0	0.66	ug/L			03/08/24 12:36	1
o-Xylene	1.0	U	1.0	0.76	ug/L			03/08/24 12:36	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			03/08/24 12:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*80 - 120*		*03/08/24 12:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*77 - 120*		*03/08/24 12:36*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*03/08/24 12:36*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*03/08/24 12:36*	*1*

Lab Sample ID: LCS 480-703026/6
Matrix: Water
Analysis Batch: 703026

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	31.4	*+	ug/L		126	71 - 124
Toluene	25.0	30.4		ug/L		121	80 - 122
Ethylbenzene	25.0	28.1		ug/L		113	77 - 123
m-Xylene & p-Xylene	25.0	28.7		ug/L		115	76 - 122
o-Xylene	25.0	28.9		ug/L		116	76 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*97*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*93*		*77 - 120*
4-Bromofluorobenzene (Surr)	*105*		*73 - 120*
Dibromofluoromethane (Surr)	*99*		*75 - 123*

Lab Sample ID: LCSD 480-703026/25
Matrix: Water
Analysis Batch: 703026

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	25.0	29.9		ug/L		120	71 - 124	5	13
Toluene	25.0	28.6		ug/L		114	80 - 122	6	15
Ethylbenzene	25.0	26.0		ug/L		104	77 - 123	8	15
m-Xylene & p-Xylene	25.0	26.8		ug/L		107	76 - 122	7	16
o-Xylene	25.0	27.3		ug/L		109	76 - 122	6	16

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*94*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*91*		*77 - 120*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*
Dibromofluoromethane (Surr)	*99*		*75 - 123*

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

Lab Sample ID: MB 480-703213/11
Matrix: Water
Analysis Batch: 703213

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			03/11/24 15:30	1
Toluene	1.0	U	1.0	0.51	ug/L			03/11/24 15:30	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			03/11/24 15:30	1
m-Xylene & p-Xylene	2.0	U	2.0	0.66	ug/L			03/11/24 15:30	1
o-Xylene	1.0	U	1.0	0.76	ug/L			03/11/24 15:30	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			03/11/24 15:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*109*		*80 - 120*		*03/11/24 15:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*77 - 120*		*03/11/24 15:30*	*1*
4-Bromofluorobenzene (Surr)	*109*		*73 - 120*		*03/11/24 15:30*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 123*		*03/11/24 15:30*	*1*

Lab Sample ID: LCS 480-703213/9
Matrix: Water
Analysis Batch: 703213

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	25.0	25.2		ug/L		101	71 - 124
Toluene	25.0	25.8		ug/L		103	80 - 122
Ethylbenzene	25.0	25.6		ug/L		102	77 - 123
m-Xylene & p-Xylene	25.0	26.2		ug/L		105	76 - 122
o-Xylene	25.0	26.7		ug/L		107	76 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*110*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*108*		*77 - 120*
4-Bromofluorobenzene (Surr)	*109*		*73 - 120*
Dibromofluoromethane (Surr)	*109*		*75 - 123*

Lab Sample ID: LCSD 480-703213/37
Matrix: Water
Analysis Batch: 703213

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	25.0	27.7		ug/L		111	71 - 124	9	13
Toluene	25.0	27.3		ug/L		109	80 - 122	6	15
Ethylbenzene	25.0	27.3		ug/L		109	77 - 123	7	15
m-Xylene & p-Xylene	25.0	27.4		ug/L		110	76 - 122	4	16
o-Xylene	25.0	27.2		ug/L		109	76 - 122	2	16

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*106*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*108*		*77 - 120*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*
Dibromofluoromethane (Surr)	*109*		*75 - 123*

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

Lab Sample ID: MB 480-703394/1-A
Matrix: Water
Analysis Batch: 703516

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 703394

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	5.0	U	5.0	0.41	ug/L		03/12/24 10:27	03/13/24 13:24	1
Acenaphthylene	5.0	U	5.0	0.38	ug/L		03/12/24 10:27	03/13/24 13:24	1
Anthracene	5.0	U	5.0	0.28	ug/L		03/12/24 10:27	03/13/24 13:24	1
Benzo(a)anthracene	5.0	U	5.0	0.36	ug/L		03/12/24 10:27	03/13/24 13:24	1
Benzo(a)pyrene	5.0	U	5.0	0.47	ug/L		03/12/24 10:27	03/13/24 13:24	1
Benzo(b)fluoranthene	5.0	U	5.0	0.34	ug/L		03/12/24 10:27	03/13/24 13:24	1
Benzo(g,h,i) perylene	5.0	U	5.0	0.35	ug/L		03/12/24 10:27	03/13/24 13:24	1
Benzo(k)fluoranthene	5.0	U	5.0	0.73	ug/L		03/12/24 10:27	03/13/24 13:24	1
Chrysene	5.0	U	5.0	0.33	ug/L		03/12/24 10:27	03/13/24 13:24	1
Dibenz(a,h)anthracene	5.0	U	5.0	0.42	ug/L		03/12/24 10:27	03/13/24 13:24	1
Fluoranthene	5.0	U	5.0	0.40	ug/L		03/12/24 10:27	03/13/24 13:24	1
Fluorene	5.0	U	5.0	0.36	ug/L		03/12/24 10:27	03/13/24 13:24	1
Ideno(1,2,3-cd)pyrene	5.0	U	5.0	0.47	ug/L		03/12/24 10:27	03/13/24 13:24	1
Naphthalene	5.0	U	5.0	0.76	ug/L		03/12/24 10:27	03/13/24 13:24	1
Phenanthrene	5.0	U	5.0	0.44	ug/L		03/12/24 10:27	03/13/24 13:24	1
Pyrene	5.0	U	5.0	0.34	ug/L		03/12/24 10:27	03/13/24 13:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*85*		*48 - 120*	*03/12/24 10:27*	*03/13/24 13:24*	*1*
Nitrobenzene-d5 (Surr)	*73*		*46 - 120*	*03/12/24 10:27*	*03/13/24 13:24*	*1*
p-Terphenyl-d14 (Surr)	*82*		*60 - 148*	*03/12/24 10:27*	*03/13/24 13:24*	*1*

Lab Sample ID: LCS 480-703394/2-A
Matrix: Water
Analysis Batch: 703516

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 703394

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	32.0	32.2		ug/L		101	60 - 120
Acenaphthylene	32.0	33.3		ug/L		104	63 - 120
Anthracene	32.0	33.3		ug/L		104	67 - 120
Benzo(a)anthracene	32.0	30.7		ug/L		96	70 - 121
Benzo(a)pyrene	32.0	31.9		ug/L		100	60 - 123
Benzo(b)fluoranthene	32.0	31.8		ug/L		99	66 - 126
Benzo(g,h,i) perylene	32.0	31.8		ug/L		99	66 - 150
Benzo(k)fluoranthene	32.0	32.7		ug/L		102	65 - 124
Chrysene	32.0	32.4		ug/L		101	69 - 120
Dibenz(a,h)anthracene	32.0	31.4		ug/L		98	65 - 135
Fluoranthene	32.0	33.8		ug/L		106	69 - 126
Fluorene	32.0	32.8		ug/L		103	66 - 120
Ideno(1,2,3-cd)pyrene	32.0	31.6		ug/L		99	69 - 146
Naphthalene	32.0	30.1		ug/L		94	57 - 120
Phenanthrene	32.0	30.5		ug/L		95	68 - 120
Pyrene	32.0	32.7		ug/L		102	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*96*		*48 - 120*
Nitrobenzene-d5 (Surr)	*94*		*46 - 120*
p-Terphenyl-d14 (Surr)	*92*		*60 - 148*

QC Association Summary

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

Job ID: 480-217606-1

GC/MS VOA

Analysis Batch: 703026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-217606-2	TB-03062024	Total/NA	Water	8260C	
MB 480-703026/8	Method Blank	Total/NA	Water	8260C	
LCS 480-703026/6	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-703026/25	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 703213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-217606-1	MW-PAR-08-03062024	Total/NA	Water	8260C	
MB 480-703213/11	Method Blank	Total/NA	Water	8260C	
LCS 480-703213/9	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-703213/37	Lab Control Sample Dup	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 703394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-217606-1	MW-PAR-08-03062024	Total/NA	Water	3510C	
MB 480-703394/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-703394/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 703516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-217606-1	MW-PAR-08-03062024	Total/NA	Water	8270D	703394
MB 480-703394/1-A	Method Blank	Total/NA	Water	8270D	703394
LCS 480-703394/2-A	Lab Control Sample	Total/NA	Water	8270D	703394

Lab Chronicle

Client: Parsons Corporation
Job ID: 480-217606-1
Project/Site: Avangrid - McMaster Street

Client Sample ID: MW-PAR-08-03062024
Lab Sample ID: 480-217606-1
Date Collected: 03/06/24 10:55
Matrix: Water
Date Received: 03/07/24 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	703213	CC	EET BUF	03/11/24 15:57
Total/NA	Prep	3510C			703394	JMP	EET BUF	03/12/24 10:27
Total/NA	Analysis	8270D		1	703516	EMD	EET BUF	03/13/24 15:45

Client Sample ID: TB-03062024
Lab Sample ID: 480-217606-2
Date Collected: 03/06/24 10:00
Matrix: Water
Date Received: 03/07/24 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	703026	CC	EET BUF	03/08/24 16:43

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: 480-217606-1
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: 480-217606-1
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: 480-217606-1
Project/Site: Avangrid - McMaster Street

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-217606-1	MW-PAR-08-03062024	Water	03/06/24 10:55	03/07/24 11:00
480-217606-2	TB-03062024	Water	03/06/24 10:00	03/07/24 11:00

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

Chain of Custody Record

Syracuse #225 — eurofins | Environment Testing

Client Information	Sampler: Zack Cornish	Lab PM: Schove, John R	Carrier Tracking No(s):	COC No: 480-190695-38378.1
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, Albany NY	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	N	N	A		
MW-PAR-09-03062024	3/6/24	1055	G	Water	N	N	X	X		
TB-03062024	3/6/24	1000	G	Water	N	N		X		

480-217606 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: Zack Cornish / Zack Cornish / PARSONS.	Date/Time: 3/6/24 @ 1700	Company	Received by: [signature]	Date/Time: 3/7/24 1100	Company TA	
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: 3.3 # ICE

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Parsons Corporation

Job Number: 480-217606-1

Login Number: 217606
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	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 6/14/2024 2:15:05 PM

JOB DESCRIPTION

Avangrid - McMaster Street

JOB NUMBER

480-220523-1

Eurofins Buffalo
10 Hazelwood Drive
Amherst NY 14228-2298

See page two for job notes and contact information.

Job Notes

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Authorization

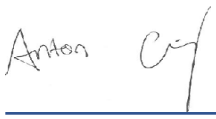

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Table of Contents

Definitions/Glossary

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

Job ID: 480-220523-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
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 Narrative
480-220523-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 6/5/2024 3:20 PM. Unless otherwise noted below, the samples arrived in good condition. The temperature of the cooler at receipt time was 17.8°C.

GC/MS VOA
Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-PAR-08-06052024 (480-220523-1). Elevated reporting limits (RLs) are provided.

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

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

Detection Summary

Client: Parsons Corporation
Job ID: 480-220523-1
Project/Site: Avangrid - McMaster Street

Client Sample ID: MW-PAR-08-06052024 — Lab Sample ID: 480-220523-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	120	E	1.0	0.41	ug/L	1		8260C	Total/NA
Toluene	4.2		1.0	0.51	ug/L	1		8260C	Total/NA
Ethylbenzene	10		1.0	0.74	ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	10		2.0	0.66	ug/L	1		8260C	Total/NA
o-Xylene	5.0		1.0	0.76	ug/L	1		8260C	Total/NA
Xylenes, Total	15		2.0	0.66	ug/L	1		8260C	Total/NA
Benzene - DL	110		2.0	0.82	ug/L	2		8260C	Total/NA
Toluene - DL	3.7		2.0	1.0	ug/L	2		8260C	Total/NA
Ethylbenzene - DL	9.7		2.0	1.5	ug/L	2		8260C	Total/NA
m-Xylene & p-Xylene - DL	10		4.0	1.3	ug/L	2		8260C	Total/NA
o-Xylene - DL	5.2		2.0	1.5	ug/L	2		8260C	Total/NA
Xylenes, Total - DL	15		4.0	1.3	ug/L	2		8260C	Total/NA
Acenaphthene	0.83	J	5.0	0.41	ug/L	1		8270D	Total/NA
Fluoranthene	1.8	J	5.0	0.40	ug/L	1		8270D	Total/NA
Pyrene	1.2	J	5.0	0.34	ug/L	1		8270D	Total/NA

Client Sample ID: TB-06052024 — Lab Sample ID: 480-220523-2

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-PAR-08-06052024
Lab Sample ID: 480-220523-1

Date Collected: 06/05/24 11:10
Matrix: Water

Date Received: 06/05/24 15:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**120**	**E**	1.0	0.41	ug/L			06/06/24 19:49	1
Toluene	**4.2**		1.0	0.51	ug/L			06/06/24 19:49	1
Ethylbenzene	**10**		1.0	0.74	ug/L			06/06/24 19:49	1
m-Xylene & p-Xylene	**10**		2.0	0.66	ug/L			06/06/24 19:49	1
o-Xylene	**5.0**		1.0	0.76	ug/L			06/06/24 19:49	1
Xylenes, Total	**15**		2.0	0.66	ug/L			06/06/24 19:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*89*		*80 - 120*		*06/06/24 19:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*112*		*77 - 120*		*06/06/24 19:49*	*1*
4-Bromofluorobenzene (Surr)	*87*		*73 - 120*		*06/06/24 19:49*	*1*
Dibromofluoromethane (Surr)	*105*		*75 - 123*		*06/06/24 19:49*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**110**		2.0	0.82	ug/L			06/07/24 14:02	2
Toluene	**3.7**		2.0	1.0	ug/L			06/07/24 14:02	2
Ethylbenzene	**9.7**		2.0	1.5	ug/L			06/07/24 14:02	2
m-Xylene & p-Xylene	**10**		4.0	1.3	ug/L			06/07/24 14:02	2
o-Xylene	**5.2**		2.0	1.5	ug/L			06/07/24 14:02	2
Xylenes, Total	**15**		4.0	1.3	ug/L			06/07/24 14:02	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*88*		*80 - 120*		*06/07/24 14:02*	*2*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*		*06/07/24 14:02*	*2*
4-Bromofluorobenzene (Surr)	*87*		*73 - 120*		*06/07/24 14:02*	*2*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*06/07/24 14:02*	*2*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.83**	**J**	5.0	0.41	ug/L		06/11/24 09:14	06/12/24 20:58	1
Acenaphthylene	5.0	U	5.0	0.38	ug/L		06/11/24 09:14	06/12/24 20:58	1
Anthracene	5.0	U	5.0	0.28	ug/L		06/11/24 09:14	06/12/24 20:58	1
Benzo(a)anthracene	5.0	U	5.0	0.36	ug/L		06/11/24 09:14	06/12/24 20:58	1
Benzo(a)pyrene	5.0	U	5.0	0.47	ug/L		06/11/24 09:14	06/12/24 20:58	1
Benzo(b)fluoranthene	5.0	U	5.0	0.34	ug/L		06/11/24 09:14	06/12/24 20:58	1
Benzo(g,h,i) perylene	5.0	U	5.0	0.35	ug/L		06/11/24 09:14	06/12/24 20:58	1
Benzo(k)fluoranthene	5.0	U	5.0	0.73	ug/L		06/11/24 09:14	06/12/24 20:58	1
Chrysene	5.0	U	5.0	0.33	ug/L		06/11/24 09:14	06/12/24 20:58	1
Dibenz(a,h)anthracene	5.0	U	5.0	0.42	ug/L		06/11/24 09:14	06/12/24 20:58	1
Fluoranthene	**1.8**	**J**	5.0	0.40	ug/L		06/11/24 09:14	06/12/24 20:58	1
Fluorene	5.0	U	5.0	0.36	ug/L		06/11/24 09:14	06/12/24 20:58	1
Ideno(1,2,3-cd)pyrene	5.0	U	5.0	0.47	ug/L		06/11/24 09:14	06/12/24 20:58	1
Naphthalene	5.0	U	5.0	0.76	ug/L		06/11/24 09:14	06/12/24 20:58	1
Phenanthrene	5.0	U	5.0	0.44	ug/L		06/11/24 09:14	06/12/24 20:58	1
Pyrene	**1.2**	**J**	5.0	0.34	ug/L		06/11/24 09:14	06/12/24 20:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*72*		*53 - 126*	*06/11/24 09:14*	*06/12/24 20:58*	*1*
Nitrobenzene-d5 (Surr)	*67*		*29 - 129*	*06/11/24 09:14*	*06/12/24 20:58*	*1*
p-Terphenyl-d14 (Surr)	*59*		*33 - 132*	*06/11/24 09:14*	*06/12/24 20:58*	*1*

Client: Parsons Corporation
Job ID: 480-220523-1
Project/Site: Avangrid - McMaster Street

Client Sample ID: TB-06052024
Lab Sample ID: 480-220523-2
Date Collected: 06/05/24 00:00
Matrix: Water
Date Received: 06/05/24 15:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.41	ug/L			06/06/24 20:12	1
Toluene	1.0	U	1.0	0.51	ug/L			06/06/24 20:12	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			06/06/24 20:12	1
m-Xylene & p-Xylene	2.0	U	2.0	0.66	ug/L			06/06/24 20:12	1
o-Xylene	1.0	U	1.0	0.76	ug/L			06/06/24 20:12	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			06/06/24 20:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*90*		*80 - 120*		*06/06/24 20:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*118*		*77 - 120*		*06/06/24 20:12*	*1*
4-Bromofluorobenzene (Surr)	*90*		*73 - 120*		*06/06/24 20:12*	*1*
Dibromofluoromethane (Surr)	*108*		*75 - 123*		*06/06/24 20:12*	*1*

Surrogate Summary

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

Job ID: 480-220523-1

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)
480-220523-1	MW-PAR-08-06052024	89	112	87	105
480-220523-1 - DL	MW-PAR-08-06052024	88	104	87	101
480-220523-2	TB-06052024	90	118	90	108
LCS 480-714691/7	Lab Control Sample	95	118	92	100
LCS 480-714804/6	Lab Control Sample	93	107	94	99
LCSD 480-714691/30	Lab Control Sample Dup	90	106	87	99
LCSD 480-714804/57	Lab Control Sample Dup	95	108	92	101
MB 480-714691/9	Method Blank	88	109	89	101
MB 480-714804/8	Method Blank	87	109	90	104

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	(53-126)	(29-129)	(33-132)
480-220523-1	MW-PAR-08-06052024	72	67	59
LCS 480-715151/2-A	Lab Control Sample	85	84	85
MB 480-715151/1-A	Method Blank	86	78	94

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 480-714691/9
Matrix: Water
Analysis Batch: 714691

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			06/06/24 15:53	1
Toluene	1.0	U	1.0	0.51	ug/L			06/06/24 15:53	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			06/06/24 15:53	1
m-Xylene & p-Xylene	2.0	U	2.0	0.66	ug/L			06/06/24 15:53	1
o-Xylene	1.0	U	1.0	0.76	ug/L			06/06/24 15:53	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			06/06/24 15:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*88*		*80 - 120*		*06/06/24 15:53*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*77 - 120*		*06/06/24 15:53*	*1*
4-Bromofluorobenzene (Surr)	*89*		*73 - 120*		*06/06/24 15:53*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*06/06/24 15:53*	*1*

Lab Sample ID: LCS 480-714691/7
Matrix: Water
Analysis Batch: 714691

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	25.0	25.4		ug/L		101	71 - 124
Toluene	25.0	26.2		ug/L		105	80 - 122
Ethylbenzene	25.0	27.7		ug/L		111	77 - 123
m-Xylene & p-Xylene	25.0	25.2		ug/L		101	76 - 122
o-Xylene	25.0	24.7		ug/L		99	76 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*95*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*118*		*77 - 120*
4-Bromofluorobenzene (Surr)	*92*		*73 - 120*
Dibromofluoromethane (Surr)	*100*		*75 - 123*

Lab Sample ID: LCSD 480-714691/30
Matrix: Water
Analysis Batch: 714691

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	25.0	24.1		ug/L		97	71 - 124	5	13
Toluene	25.0	26.3		ug/L		105	80 - 122	0	15
Ethylbenzene	25.0	27.4		ug/L		110	77 - 123	1	15
m-Xylene & p-Xylene	25.0	25.7		ug/L		103	76 - 122	2	16
o-Xylene	25.0	24.4		ug/L		98	76 - 122	1	16

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*90*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*106*		*77 - 120*
4-Bromofluorobenzene (Surr)	*87*		*73 - 120*
Dibromofluoromethane (Surr)	*99*		*75 - 123*

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

Lab Sample ID: MB 480-714804/8
Matrix: Water
Analysis Batch: 714804

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			06/07/24 13:03	1
Toluene	1.0	U	1.0	0.51	ug/L			06/07/24 13:03	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			06/07/24 13:03	1
m-Xylene & p-Xylene	2.0	U	2.0	0.66	ug/L			06/07/24 13:03	1
o-Xylene	1.0	U	1.0	0.76	ug/L			06/07/24 13:03	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			06/07/24 13:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*87*		*80 - 120*		*06/07/24 13:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*77 - 120*		*06/07/24 13:03*	*1*
4-Bromofluorobenzene (Surr)	*90*		*73 - 120*		*06/07/24 13:03*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 123*		*06/07/24 13:03*	*1*

Lab Sample ID: LCS 480-714804/6
Matrix: Water
Analysis Batch: 714804

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	24.7		ug/L		99	71 - 124
Toluene	25.0	26.1		ug/L		104	80 - 122
Ethylbenzene	25.0	27.9		ug/L		111	77 - 123
m-Xylene & p-Xylene	25.0	25.0		ug/L		100	76 - 122
o-Xylene	25.0	25.1		ug/L		100	76 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*93*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*107*		*77 - 120*
4-Bromofluorobenzene (Surr)	*94*		*73 - 120*
Dibromofluoromethane (Surr)	*99*		*75 - 123*

Lab Sample ID: LCSD 480-714804/57
Matrix: Water
Analysis Batch: 714804

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	25.0	24.0		ug/L		96	71 - 124	3	13
Toluene	25.0	25.5		ug/L		102	80 - 122	2	15
Ethylbenzene	25.0	26.5		ug/L		106	77 - 123	5	15
m-Xylene & p-Xylene	25.0	24.5		ug/L		98	76 - 122	2	16
o-Xylene	25.0	23.4		ug/L		94	76 - 122	7	16

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*95*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*108*		*77 - 120*
4-Bromofluorobenzene (Surr)	*92*		*73 - 120*
Dibromofluoromethane (Surr)	*101*		*75 - 123*

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

Lab Sample ID: MB 480-715151/1-A
Matrix: Water
Analysis Batch: 715312

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 715151

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	5.0	U	5.0	0.41	ug/L		06/11/24 09:14	06/12/24 15:29	1
Acenaphthylene	5.0	U	5.0	0.38	ug/L		06/11/24 09:14	06/12/24 15:29	1
Anthracene	5.0	U	5.0	0.28	ug/L		06/11/24 09:14	06/12/24 15:29	1
Benzo(a)anthracene	5.0	U	5.0	0.36	ug/L		06/11/24 09:14	06/12/24 15:29	1
Benzo(a)pyrene	5.0	U	5.0	0.47	ug/L		06/11/24 09:14	06/12/24 15:29	1
Benzo(b)fluoranthene	5.0	U	5.0	0.34	ug/L		06/11/24 09:14	06/12/24 15:29	1
Benzo(g,h,i) perylene	5.0	U	5.0	0.35	ug/L		06/11/24 09:14	06/12/24 15:29	1
Benzo(k)fluoranthene	5.0	U	5.0	0.73	ug/L		06/11/24 09:14	06/12/24 15:29	1
Chrysene	5.0	U	5.0	0.33	ug/L		06/11/24 09:14	06/12/24 15:29	1
Dibenz(a,h)anthracene	5.0	U	5.0	0.42	ug/L		06/11/24 09:14	06/12/24 15:29	1
Fluoranthene	5.0	U	5.0	0.40	ug/L		06/11/24 09:14	06/12/24 15:29	1
Fluorene	5.0	U	5.0	0.36	ug/L		06/11/24 09:14	06/12/24 15:29	1
Ideno(1,2,3-cd)pyrene	5.0	U	5.0	0.47	ug/L		06/11/24 09:14	06/12/24 15:29	1
Naphthalene	5.0	U	5.0	0.76	ug/L		06/11/24 09:14	06/12/24 15:29	1
Phenanthrene	5.0	U	5.0	0.44	ug/L		06/11/24 09:14	06/12/24 15:29	1
Pyrene	5.0	U	5.0	0.34	ug/L		06/11/24 09:14	06/12/24 15:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*86*		*53 - 126*	*06/11/24 09:14*	*06/12/24 15:29*	*1*
Nitrobenzene-d5 (Surr)	*78*		*29 - 129*	*06/11/24 09:14*	*06/12/24 15:29*	*1*
p-Terphenyl-d14 (Surr)	*94*		*33 - 132*	*06/11/24 09:14*	*06/12/24 15:29*	*1*

Lab Sample ID: LCS 480-715151/2-A
Matrix: Water
Analysis Batch: 715312

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 715151

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	32.0	29.2		ug/L		91	60 - 120
Acenaphthylene	32.0	29.2		ug/L		91	63 - 120
Anthracene	32.0	29.5		ug/L		92	67 - 120
Benzo(a)anthracene	32.0	30.0		ug/L		94	70 - 121
Benzo(a)pyrene	32.0	30.3		ug/L		95	60 - 123
Benzo(b)fluoranthene	32.0	28.4		ug/L		89	66 - 126
Benzo(g,h,i) perylene	32.0	30.3		ug/L		95	66 - 150
Benzo(k)fluoranthene	32.0	32.2		ug/L		100	65 - 124
Chrysene	32.0	28.4		ug/L		89	69 - 120
Dibenz(a,h)anthracene	32.0	30.3		ug/L		95	65 - 135
Fluoranthene	32.0	30.9		ug/L		97	69 - 126
Fluorene	32.0	30.4		ug/L		95	66 - 120
Ideno(1,2,3-cd)pyrene	32.0	27.1		ug/L		85	69 - 146
Naphthalene	32.0	26.0		ug/L		81	57 - 120
Phenanthrene	32.0	29.6		ug/L		92	68 - 120
Pyrene	32.0	28.2		ug/L		88	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*85*		*53 - 126*
Nitrobenzene-d5 (Surr)	*84*		*29 - 129*
p-Terphenyl-d14 (Surr)	*85*		*33 - 132*

QC Association Summary

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

Job ID: 480-220523-1

GC/MS VOA

Analysis Batch: 714691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-220523-1	MW-PAR-08-06052024	Total/NA	Water	8260C	
480-220523-2	TB-06052024	Total/NA	Water	8260C	
MB 480-714691/9	Method Blank	Total/NA	Water	8260C	
LCS 480-714691/7	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-714691/30	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 714804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-220523-1 - DL	MW-PAR-08-06052024	Total/NA	Water	8260C	
MB 480-714804/8	Method Blank	Total/NA	Water	8260C	
LCS 480-714804/6	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-714804/57	Lab Control Sample Dup	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 715151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-220523-1	MW-PAR-08-06052024	Total/NA	Water	3510C	
MB 480-715151/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-715151/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 715312

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-220523-1	MW-PAR-08-06052024	Total/NA	Water	8270D	715151
MB 480-715151/1-A	Method Blank	Total/NA	Water	8270D	715151
LCS 480-715151/2-A	Lab Control Sample	Total/NA	Water	8270D	715151

Lab Chronicle

Client: Parsons Corporation
Job ID: 480-220523-1
Project/Site: Avangrid - McMaster Street

Client Sample ID: MW-PAR-08-06052024
Lab Sample ID: 480-220523-1

Date Collected: 06/05/24 11:10
Matrix: Water
Date Received: 06/05/24 15:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	714691	CC	EET BUF	06/06/24 19:49
Total/NA	Analysis	8260C	DL	2	714804	CC	EET BUF	06/07/24 14:02
Total/NA	Prep	3510C			715151	JMP	EET BUF	06/11/24 09:14
Total/NA	Analysis	8270D		1	715312	EMD	EET BUF	06/12/24 20:58

Client Sample ID: TB-06052024
Lab Sample ID: 480-220523-2

Date Collected: 06/05/24 00:00
Matrix: Water
Date Received: 06/05/24 15:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	714691	CC	EET BUF	06/06/24 20:12

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: 480-220523-1
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	03-31-25

Method Summary

Client: Parsons Corporation
Job ID: 480-220523-1
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: 480-220523-1
Project/Site: Avangrid - McMaster Street

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-220523-1	MW-PAR-08-06052024	Water	06/05/24 11:10	06/05/24 15:20
480-220523-2	TB-06052024	Water	06/05/24 00:00	06/05/24 15:20

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

Chain of Custody Record

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Syracuse #225

Client Information	Sampler: JPaulsen	Lab PM: Schove, John R	Carrier Tracking No(s):	COC No: 480-196931-38378.1
Client Contact: Cathy Adamitis	Phone: 7164327685	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)	8270D - PAH Semivolatiles	8260C - BTEX	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	A		
MW-PAR-06S-06052024	6/5/2024	11:10	G	Water			✓	✓		
TB-06052024	6/5/2024		QC							QC

480-220523 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: 6/5/24 1520	Company	Received by:	Date/Time: 6/5/24 1520	Company		
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: 17.8 no ICE

Ver: 04/02/2024

Login Sample Receipt Checklist

Client: Parsons Corporation

Job Number: 480-220523-1

Login Number: 220523
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.	False	
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.	False	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

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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

480-223684-1

Eurofins Buffalo
10 Hazelwood Drive
Amherst NY 14228-2298

See page two for job notes and contact information.

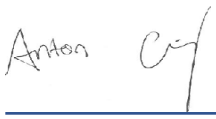
Eurofins Buffalo

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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Authorized for release by
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Table of Contents

Definitions/Glossary

Client: Parsons Corporation
Job ID: 480-223684-1
Project/Site: Avangrid - McMaster Street

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
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: 480-223684-1 Eurofins Buffalo

Job Narrative
480-223684-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 9/25/2024 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 time was 2.6°C.

Receipt Exceptions
The following sample was submitted for analysis; however, it was not listed on the Chain-of-Custody (COC): MW-06-10-09232024 (480-223684-8).

GC/MS VOA
Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-PAR-08-09232024 (480-223684-5). Elevated reporting limits (RLs) are provided.

Method 8260C: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: MW-06-09-09232024 (480-223684-1), MW-06-09-09232024 (480-223684-1[MS]), MW-06-09-09232024 (480-223684-1[MSD]), FD-09232024 (480-223684-2) and MW-06-10-09232024 (480-223684-8). Elevated reporting limits (RLs) are provided.

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

GC/MS Semi VOA
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: 480-223684-1

Client Sample ID: MW-06-09-09232024 — Lab Sample ID: 480-223684-1

No Detections.

Client Sample ID: FD-09232024 — Lab Sample ID: 480-223684-2

No Detections.

Client Sample ID: TB-09232024 — Lab Sample ID: 480-223684-3

No Detections.

Client Sample ID: MW-04-06-09232024 — Lab Sample ID: 480-223684-4

No Detections.

Client Sample ID: MW-PAR-08-09232024 — Lab Sample ID: 480-223684-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	140		2.0	0.82	ug/L	2		8260C	Total/NA
Toluene	4.2		2.0	1.0	ug/L	2		8260C	Total/NA
Ethylbenzene	23		2.0	1.5	ug/L	2		8260C	Total/NA
m-Xylene & p-Xylene	10		4.0	1.3	ug/L	2		8260C	Total/NA
o-Xylene	6.7		2.0	1.5	ug/L	2		8260C	Total/NA
Xylenes, Total	17		4.0	1.3	ug/L	2		8260C	Total/NA
Acenaphthene	31		5.0	0.41	ug/L	1		8270D	Total/NA
Acenaphthylene	13		5.0	0.38	ug/L	1		8270D	Total/NA
Anthracene	4.4	J	5.0	0.28	ug/L	1		8270D	Total/NA
Fluoranthene	3.6	J	5.0	0.40	ug/L	1		8270D	Total/NA
Fluorene	17		5.0	0.36	ug/L	1		8270D	Total/NA
Naphthalene	35		5.0	0.76	ug/L	1		8270D	Total/NA
Phenanthrene	35		5.0	0.44	ug/L	1		8270D	Total/NA
Pyrene	3.0	J	5.0	0.34	ug/L	1		8270D	Total/NA

Client Sample ID: MW-PAR-09-09232024 — Lab Sample ID: 480-223684-6

No Detections.

Client Sample ID: EB-09232024 — Lab Sample ID: 480-223684-7

No Detections.

Client Sample ID: MW-06-10-09232024 — Lab Sample ID: 480-223684-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	2.4	J	5.0	0.41	ug/L	1		8270D	Total/NA
Anthracene	0.28	J	5.0	0.28	ug/L	1		8270D	Total/NA
Fluorene	2.4	J	5.0	0.36	ug/L	1		8270D	Total/NA
Phenanthrene	0.68	J	5.0	0.44	ug/L	1		8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-06-09-09232024

Date Collected: 09/23/24 12:00
Date Received: 09/25/24 10:30

Lab Sample ID: 480-223684-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	2.0	U	2.0	0.82	ug/L			09/26/24 02:00	2
Toluene	2.0	U	2.0	1.0	ug/L			09/26/24 02:00	2
Ethylbenzene	2.0	U	2.0	1.5	ug/L			09/26/24 02:00	2
m-Xylene & p-Xylene	4.0	U	4.0	1.3	ug/L			09/26/24 02:00	2
o-Xylene	2.0	U	2.0	1.5	ug/L			09/26/24 02:00	2
Xylenes, Total	4.0	U	4.0	1.3	ug/L			09/26/24 02:00	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*80 - 120*		*09/26/24 02:00*	*2*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*09/26/24 02:00*	*2*
4-Bromofluorobenzene (Surr)	*95*		*73 - 120*		*09/26/24 02:00*	*2*
Dibromofluoromethane (Surr)	*100*		*75 - 123*		*09/26/24 02:00*	*2*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	5.2	U	5.2	0.43	ug/L		09/25/24 12:58	09/26/24 16:43	1
Acenaphthylene	5.2	U	5.2	0.40	ug/L		09/25/24 12:58	09/26/24 16:43	1
Anthracene	5.2	U	5.2	0.29	ug/L		09/25/24 12:58	09/26/24 16:43	1
Benzo(a)anthracene	5.2	U	5.2	0.38	ug/L		09/25/24 12:58	09/26/24 16:43	1
Benzo(a)pyrene	5.2	U	5.2	0.49	ug/L		09/25/24 12:58	09/26/24 16:43	1
Benzo(b)fluoranthene	5.2	U	5.2	0.35	ug/L		09/25/24 12:58	09/26/24 16:43	1
Benzo(g,h,i) perylene	5.2	U	5.2	0.36	ug/L		09/25/24 12:58	09/26/24 16:43	1
Benzo(k)fluoranthene	5.2	U	5.2	0.76	ug/L		09/25/24 12:58	09/26/24 16:43	1
Chrysene	5.2	U	5.2	0.34	ug/L		09/25/24 12:58	09/26/24 16:43	1
Dibenz(a,h)anthracene	5.2	U	5.2	0.44	ug/L		09/25/24 12:58	09/26/24 16:43	1
Fluoranthene	5.2	U	5.2	0.42	ug/L		09/25/24 12:58	09/26/24 16:43	1
Fluorene	5.2	U	5.2	0.38	ug/L		09/25/24 12:58	09/26/24 16:43	1
Ideno(1,2,3-cd)pyrene	5.2	U	5.2	0.49	ug/L		09/25/24 12:58	09/26/24 16:43	1
Naphthalene	5.2	U	5.2	0.79	ug/L		09/25/24 12:58	09/26/24 16:43	1
Phenanthrene	5.2	U	5.2	0.46	ug/L		09/25/24 12:58	09/26/24 16:43	1
Pyrene	5.2	U	5.2	0.35	ug/L		09/25/24 12:58	09/26/24 16:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*65*		*53 - 126*	*09/25/24 12:58*	*09/26/24 16:43*	*1*
Nitrobenzene-d5 (Surr)	*57*		*29 - 129*	*09/25/24 12:58*	*09/26/24 16:43*	*1*
p-Terphenyl-d14 (Surr)	*77*		*33 - 132*	*09/25/24 12:58*	*09/26/24 16:43*	*1*

Client Sample ID: FD-09232024
Lab Sample ID: 480-223684-2

Date Collected: 09/23/24 12:15
Matrix: Water

Date Received: 09/25/24 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	2.0	U	2.0	0.82	ug/L			09/26/24 02:22	2
Toluene	2.0	U	2.0	1.0	ug/L			09/26/24 02:22	2
Ethylbenzene	2.0	U	2.0	1.5	ug/L			09/26/24 02:22	2
m-Xylene & p-Xylene	4.0	U	4.0	1.3	ug/L			09/26/24 02:22	2
o-Xylene	2.0	U	2.0	1.5	ug/L			09/26/24 02:22	2
Xylenes, Total	4.0	U	4.0	1.3	ug/L			09/26/24 02:22	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*80 - 120*		*09/26/24 02:22*	*2*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*09/26/24 02:22*	*2*
4-Bromofluorobenzene (Surr)	*96*		*73 - 120*		*09/26/24 02:22*	*2*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*09/26/24 02:22*	*2*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	5.2	U	5.2	0.43	ug/L		09/25/24 12:58	09/26/24 18:06	1
Acenaphthylene	5.2	U	5.2	0.40	ug/L		09/25/24 12:58	09/26/24 18:06	1
Anthracene	5.2	U	5.2	0.29	ug/L		09/25/24 12:58	09/26/24 18:06	1
Benzo(a)anthracene	5.2	U	5.2	0.38	ug/L		09/25/24 12:58	09/26/24 18:06	1
Benzo(a)pyrene	5.2	U	5.2	0.49	ug/L		09/25/24 12:58	09/26/24 18:06	1
Benzo(b)fluoranthene	5.2	U	5.2	0.35	ug/L		09/25/24 12:58	09/26/24 18:06	1
Benzo(g,h,i) perylene	5.2	U	5.2	0.36	ug/L		09/25/24 12:58	09/26/24 18:06	1
Benzo(k)fluoranthene	5.2	U	5.2	0.76	ug/L		09/25/24 12:58	09/26/24 18:06	1
Chrysene	5.2	U	5.2	0.34	ug/L		09/25/24 12:58	09/26/24 18:06	1
Dibenz(a,h)anthracene	5.2	U	5.2	0.44	ug/L		09/25/24 12:58	09/26/24 18:06	1
Fluoranthene	5.2	U	5.2	0.42	ug/L		09/25/24 12:58	09/26/24 18:06	1
Fluorene	5.2	U	5.2	0.38	ug/L		09/25/24 12:58	09/26/24 18:06	1
Ideno(1,2,3-cd)pyrene	5.2	U	5.2	0.49	ug/L		09/25/24 12:58	09/26/24 18:06	1
Naphthalene	5.2	U	5.2	0.79	ug/L		09/25/24 12:58	09/26/24 18:06	1
Phenanthrene	5.2	U	5.2	0.46	ug/L		09/25/24 12:58	09/26/24 18:06	1
Pyrene	5.2	U	5.2	0.35	ug/L		09/25/24 12:58	09/26/24 18:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*72*		*53 - 126*	*09/25/24 12:58*	*09/26/24 18:06*	*1*
Nitrobenzene-d5 (Surr)	*62*		*29 - 129*	*09/25/24 12:58*	*09/26/24 18:06*	*1*
p-Terphenyl-d14 (Surr)	*86*		*33 - 132*	*09/25/24 12:58*	*09/26/24 18:06*	*1*

Client: Parsons Corporation
Job ID: 480-223684-1
Project/Site: Avangrid - McMaster Street

Client Sample ID: TB-09232024
Lab Sample ID: 480-223684-3
Date Collected: 09/23/24 09:45
Matrix: Water
Date Received: 09/25/24 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.41	ug/L			09/26/24 02:44	1
Toluene	1.0	U	1.0	0.51	ug/L			09/26/24 02:44	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			09/26/24 02:44	1
m-Xylene & p-Xylene	2.0	U	2.0	0.66	ug/L			09/26/24 02:44	1
o-Xylene	1.0	U	1.0	0.76	ug/L			09/26/24 02:44	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			09/26/24 02:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 120*		*09/26/24 02:44*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*		*09/26/24 02:44*	*1*
4-Bromofluorobenzene (Surr)	*95*		*73 - 120*		*09/26/24 02:44*	*1*
Dibromofluoromethane (Surr)	*109*		*75 - 123*		*09/26/24 02:44*	*1*

Client Sample ID: MW-04-06-09232024
Lab Sample ID: 480-223684-4

Date Collected: 09/23/24 13:25
Matrix: Water
Date Received: 09/25/24 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.41	ug/L			09/26/24 03:07	1
Toluene	1.0	U	1.0	0.51	ug/L			09/26/24 03:07	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			09/26/24 03:07	1
m-Xylene & p-Xylene	2.0	U	2.0	0.66	ug/L			09/26/24 03:07	1
o-Xylene	1.0	U	1.0	0.76	ug/L			09/26/24 03:07	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			09/26/24 03:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*80 - 120*		*09/26/24 03:07*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*		*09/26/24 03:07*	*1*
4-Bromofluorobenzene (Surr)	*95*		*73 - 120*		*09/26/24 03:07*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*09/26/24 03:07*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	5.0	U	5.0	0.41	ug/L		09/25/24 12:58	09/26/24 18:34	1
Acenaphthylene	5.0	U	5.0	0.38	ug/L		09/25/24 12:58	09/26/24 18:34	1
Anthracene	5.0	U	5.0	0.28	ug/L		09/25/24 12:58	09/26/24 18:34	1
Benzo(a)anthracene	5.0	U	5.0	0.36	ug/L		09/25/24 12:58	09/26/24 18:34	1
Benzo(a)pyrene	5.0	U	5.0	0.47	ug/L		09/25/24 12:58	09/26/24 18:34	1
Benzo(b)fluoranthene	5.0	U	5.0	0.34	ug/L		09/25/24 12:58	09/26/24 18:34	1
Benzo(g,h,i) perylene	5.0	U	5.0	0.35	ug/L		09/25/24 12:58	09/26/24 18:34	1
Benzo(k)fluoranthene	5.0	U	5.0	0.73	ug/L		09/25/24 12:58	09/26/24 18:34	1
Chrysene	5.0	U	5.0	0.33	ug/L		09/25/24 12:58	09/26/24 18:34	1
Dibenz(a,h)anthracene	5.0	U	5.0	0.42	ug/L		09/25/24 12:58	09/26/24 18:34	1
Fluoranthene	5.0	U	5.0	0.40	ug/L		09/25/24 12:58	09/26/24 18:34	1
Fluorene	5.0	U	5.0	0.36	ug/L		09/25/24 12:58	09/26/24 18:34	1
Ideno(1,2,3-cd)pyrene	5.0	U	5.0	0.47	ug/L		09/25/24 12:58	09/26/24 18:34	1
Naphthalene	5.0	U	5.0	0.76	ug/L		09/25/24 12:58	09/26/24 18:34	1
Phenanthrene	5.0	U	5.0	0.44	ug/L		09/25/24 12:58	09/26/24 18:34	1
Pyrene	5.0	U	5.0	0.34	ug/L		09/25/24 12:58	09/26/24 18:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*68*		*53 - 126*	*09/25/24 12:58*	*09/26/24 18:34*	*1*
Nitrobenzene-d5 (Surr)	*61*		*29 - 129*	*09/25/24 12:58*	*09/26/24 18:34*	*1*
p-Terphenyl-d14 (Surr)	*77*		*33 - 132*	*09/25/24 12:58*	*09/26/24 18:34*	*1*

Client Sample ID: MW-PAR-08-09232024

Date Collected: 09/23/24 13:05
Date Received: 09/25/24 10:30

Lab Sample ID: 480-223684-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**140**		2.0	0.82	ug/L			09/26/24 03:29	2
Toluene	**4.2**		2.0	1.0	ug/L			09/26/24 03:29	2
Ethylbenzene	**23**		2.0	1.5	ug/L			09/26/24 03:29	2
m-Xylene & p-Xylene	**10**		4.0	1.3	ug/L			09/26/24 03:29	2
o-Xylene	**6.7**		2.0	1.5	ug/L			09/26/24 03:29	2
Xylenes, Total	**17**		4.0	1.3	ug/L			09/26/24 03:29	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*80 - 120*		*09/26/24 03:29*	*2*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*09/26/24 03:29*	*2*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*		*09/26/24 03:29*	*2*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*09/26/24 03:29*	*2*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**31**		5.0	0.41	ug/L		09/25/24 12:58	09/26/24 19:01	1
Acenaphthylene	**13**		5.0	0.38	ug/L		09/25/24 12:58	09/26/24 19:01	1
Anthracene	**4.4**	**J**	5.0	0.28	ug/L		09/25/24 12:58	09/26/24 19:01	1
Benzo(a)anthracene	5.0	U	5.0	0.36	ug/L		09/25/24 12:58	09/26/24 19:01	1
Benzo(a)pyrene	5.0	U	5.0	0.47	ug/L		09/25/24 12:58	09/26/24 19:01	1
Benzo(b)fluoranthene	5.0	U	5.0	0.34	ug/L		09/25/24 12:58	09/26/24 19:01	1
Benzo(g,h,i) perylene	5.0	U	5.0	0.35	ug/L		09/25/24 12:58	09/26/24 19:01	1
Benzo(k)fluoranthene	5.0	U	5.0	0.73	ug/L		09/25/24 12:58	09/26/24 19:01	1
Chrysene	5.0	U	5.0	0.33	ug/L		09/25/24 12:58	09/26/24 19:01	1
Dibenz(a,h)anthracene	5.0	U	5.0	0.42	ug/L		09/25/24 12:58	09/26/24 19:01	1
Fluoranthene	**3.6**	**J**	5.0	0.40	ug/L		09/25/24 12:58	09/26/24 19:01	1
Fluorene	**17**		5.0	0.36	ug/L		09/25/24 12:58	09/26/24 19:01	1
Ideno(1,2,3-cd)pyrene	5.0	U	5.0	0.47	ug/L		09/25/24 12:58	09/26/24 19:01	1
Naphthalene	**35**		5.0	0.76	ug/L		09/25/24 12:58	09/26/24 19:01	1
Phenanthrene	**35**		5.0	0.44	ug/L		09/25/24 12:58	09/26/24 19:01	1
Pyrene	**3.0**	**J**	5.0	0.34	ug/L		09/25/24 12:58	09/26/24 19:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*76*		*53 - 126*	*09/25/24 12:58*	*09/26/24 19:01*	*1*
Nitrobenzene-d5 (Surr)	*69*		*29 - 129*	*09/25/24 12:58*	*09/26/24 19:01*	*1*
p-Terphenyl-d14 (Surr)	*77*		*33 - 132*	*09/25/24 12:58*	*09/26/24 19:01*	*1*

Client Sample ID: MW-PAR-09-09232024
Lab Sample ID: 480-223684-6

Date Collected: 09/23/24 11:10
Matrix: Water

Date Received: 09/25/24 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.41	ug/L			09/26/24 03:51	1
Toluene	1.0	U	1.0	0.51	ug/L			09/26/24 03:51	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			09/26/24 03:51	1
m-Xylene & p-Xylene	2.0	U	2.0	0.66	ug/L			09/26/24 03:51	1
o-Xylene	1.0	U	1.0	0.76	ug/L			09/26/24 03:51	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			09/26/24 03:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 120*		*09/26/24 03:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*		*09/26/24 03:51*	*1*
4-Bromofluorobenzene (Surr)	*94*		*73 - 120*		*09/26/24 03:51*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 123*		*09/26/24 03:51*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	5.0	U	5.0	0.41	ug/L		09/25/24 12:58	09/26/24 19:29	1
Acenaphthylene	5.0	U	5.0	0.38	ug/L		09/25/24 12:58	09/26/24 19:29	1
Anthracene	5.0	U	5.0	0.28	ug/L		09/25/24 12:58	09/26/24 19:29	1
Benzo(a)anthracene	5.0	U	5.0	0.36	ug/L		09/25/24 12:58	09/26/24 19:29	1
Benzo(a)pyrene	5.0	U	5.0	0.47	ug/L		09/25/24 12:58	09/26/24 19:29	1
Benzo(b)fluoranthene	5.0	U	5.0	0.34	ug/L		09/25/24 12:58	09/26/24 19:29	1
Benzo(g,h,i) perylene	5.0	U	5.0	0.35	ug/L		09/25/24 12:58	09/26/24 19:29	1
Benzo(k)fluoranthene	5.0	U	5.0	0.73	ug/L		09/25/24 12:58	09/26/24 19:29	1
Chrysene	5.0	U	5.0	0.33	ug/L		09/25/24 12:58	09/26/24 19:29	1
Dibenz(a,h)anthracene	5.0	U	5.0	0.42	ug/L		09/25/24 12:58	09/26/24 19:29	1
Fluoranthene	5.0	U	5.0	0.40	ug/L		09/25/24 12:58	09/26/24 19:29	1
Fluorene	5.0	U	5.0	0.36	ug/L		09/25/24 12:58	09/26/24 19:29	1
Ideno(1,2,3-cd)pyrene	5.0	U	5.0	0.47	ug/L		09/25/24 12:58	09/26/24 19:29	1
Naphthalene	5.0	U	5.0	0.76	ug/L		09/25/24 12:58	09/26/24 19:29	1
Phenanthrene	5.0	U	5.0	0.44	ug/L		09/25/24 12:58	09/26/24 19:29	1
Pyrene	5.0	U	5.0	0.34	ug/L		09/25/24 12:58	09/26/24 19:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*74*		*53 - 126*	*09/25/24 12:58*	*09/26/24 19:29*	*1*
Nitrobenzene-d5 (Surr)	*61*		*29 - 129*	*09/25/24 12:58*	*09/26/24 19:29*	*1*
p-Terphenyl-d14 (Surr)	*79*		*33 - 132*	*09/25/24 12:58*	*09/26/24 19:29*	*1*

Client Sample ID: EB-09232024

Date Collected: 09/23/24 14:00
Date Received: 09/25/24 10:30

Lab Sample ID: 480-223684-7

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.41	ug/L			09/26/24 04:14	1
Toluene	1.0	U	1.0	0.51	ug/L			09/26/24 04:14	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			09/26/24 04:14	1
m-Xylene & p-Xylene	2.0	U	2.0	0.66	ug/L			09/26/24 04:14	1
o-Xylene	1.0	U	1.0	0.76	ug/L			09/26/24 04:14	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			09/26/24 04:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*80 - 120*		*09/26/24 04:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*		*09/26/24 04:14*	*1*
4-Bromofluorobenzene (Surr)	*94*		*73 - 120*		*09/26/24 04:14*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*09/26/24 04:14*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	5.0	U	5.0	0.41	ug/L		09/25/24 12:58	09/26/24 19:57	1
Acenaphthylene	5.0	U	5.0	0.38	ug/L		09/25/24 12:58	09/26/24 19:57	1
Anthracene	5.0	U	5.0	0.28	ug/L		09/25/24 12:58	09/26/24 19:57	1
Benzo(a)anthracene	5.0	U	5.0	0.36	ug/L		09/25/24 12:58	09/26/24 19:57	1
Benzo(a)pyrene	5.0	U	5.0	0.47	ug/L		09/25/24 12:58	09/26/24 19:57	1
Benzo(b)fluoranthene	5.0	U	5.0	0.34	ug/L		09/25/24 12:58	09/26/24 19:57	1
Benzo(g,h,i) perylene	5.0	U	5.0	0.35	ug/L		09/25/24 12:58	09/26/24 19:57	1
Benzo(k)fluoranthene	5.0	U	5.0	0.73	ug/L		09/25/24 12:58	09/26/24 19:57	1
Chrysene	5.0	U	5.0	0.33	ug/L		09/25/24 12:58	09/26/24 19:57	1
Dibenz(a,h)anthracene	5.0	U	5.0	0.42	ug/L		09/25/24 12:58	09/26/24 19:57	1
Fluoranthene	5.0	U	5.0	0.40	ug/L		09/25/24 12:58	09/26/24 19:57	1
Fluorene	5.0	U	5.0	0.36	ug/L		09/25/24 12:58	09/26/24 19:57	1
Ideno(1,2,3-cd)pyrene	5.0	U	5.0	0.47	ug/L		09/25/24 12:58	09/26/24 19:57	1
Naphthalene	5.0	U	5.0	0.76	ug/L		09/25/24 12:58	09/26/24 19:57	1
Phenanthrene	5.0	U	5.0	0.44	ug/L		09/25/24 12:58	09/26/24 19:57	1
Pyrene	5.0	U	5.0	0.34	ug/L		09/25/24 12:58	09/26/24 19:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*70*		*53 - 126*	*09/25/24 12:58*	*09/26/24 19:57*	*1*
Nitrobenzene-d5 (Surr)	*65*		*29 - 129*	*09/25/24 12:58*	*09/26/24 19:57*	*1*
p-Terphenyl-d14 (Surr)	*96*		*33 - 132*	*09/25/24 12:58*	*09/26/24 19:57*	*1*

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

Job ID: 480-223684-1

Client Sample ID: MW-06-10-09232024

Lab Sample ID: 480-223684-8

Date Collected: 09/23/24 12:00

Matrix: Water

Date Received: 09/25/24 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	2.0	U	2.0	0.82	ug/L			09/26/24 04:36	2
Toluene	2.0	U	2.0	1.0	ug/L			09/26/24 04:36	2
Ethylbenzene	2.0	U	2.0	1.5	ug/L			09/26/24 04:36	2
m-Xylene & p-Xylene	4.0	U	4.0	1.3	ug/L			09/26/24 04:36	2
o-Xylene	2.0	U	2.0	1.5	ug/L			09/26/24 04:36	2
Xylenes, Total	4.0	U	4.0	1.3	ug/L			09/26/24 04:36	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 120*		*09/26/24 04:36*	*2*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*		*09/26/24 04:36*	*2*
4-Bromofluorobenzene (Surr)	*96*		*73 - 120*		*09/26/24 04:36*	*2*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*09/26/24 04:36*	*2*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**2.4**	**J**	5.0	0.41	ug/L		09/25/24 12:58	09/26/24 20:24	1
Acenaphthylene	5.0	U	5.0	0.38	ug/L		09/25/24 12:58	09/26/24 20:24	1
Anthracene	**0.28**	**J**	5.0	0.28	ug/L		09/25/24 12:58	09/26/24 20:24	1
Benzo(a)anthracene	5.0	U	5.0	0.36	ug/L		09/25/24 12:58	09/26/24 20:24	1
Benzo(a)pyrene	5.0	U	5.0	0.47	ug/L		09/25/24 12:58	09/26/24 20:24	1
Benzo(b)fluoranthene	5.0	U	5.0	0.34	ug/L		09/25/24 12:58	09/26/24 20:24	1
Benzo(g,h,i) perylene	5.0	U	5.0	0.35	ug/L		09/25/24 12:58	09/26/24 20:24	1
Benzo(k)fluoranthene	5.0	U	5.0	0.73	ug/L		09/25/24 12:58	09/26/24 20:24	1
Chrysene	5.0	U	5.0	0.33	ug/L		09/25/24 12:58	09/26/24 20:24	1
Dibenz(a,h)anthracene	5.0	U	5.0	0.42	ug/L		09/25/24 12:58	09/26/24 20:24	1
Fluoranthene	5.0	U	5.0	0.40	ug/L		09/25/24 12:58	09/26/24 20:24	1
Fluorene	**2.4**	**J**	5.0	0.36	ug/L		09/25/24 12:58	09/26/24 20:24	1
Ideno(1,2,3-cd)pyrene	5.0	U	5.0	0.47	ug/L		09/25/24 12:58	09/26/24 20:24	1
Naphthalene	5.0	U	5.0	0.76	ug/L		09/25/24 12:58	09/26/24 20:24	1
Phenanthrene	**0.68**	**J**	5.0	0.44	ug/L		09/25/24 12:58	09/26/24 20:24	1
Pyrene	5.0	U	5.0	0.34	ug/L		09/25/24 12:58	09/26/24 20:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*77*		*53 - 126*	*09/25/24 12:58*	*09/26/24 20:24*	*1*
Nitrobenzene-d5 (Surr)	*67*		*29 - 129*	*09/25/24 12:58*	*09/26/24 20:24*	*1*
p-Terphenyl-d14 (Surr)	*85*		*33 - 132*	*09/25/24 12:58*	*09/26/24 20:24*	*1*

Surrogate Summary

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

Job ID: 480-223684-1

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)
480-223684-1	MW-06-09-09232024	99	101	95	100
480-223684-1 MS	MW-06-09-09232024	100	93	97	94
480-223684-1 MSD	MW-06-09-09232024	101	96	96	98
480-223684-2	FD-09232024	98	103	96	101
480-223684-3	TB-09232024	101	105	95	109
480-223684-4	MW-04-06-09232024	99	102	95	102
480-223684-5	MW-PAR-08-09232024	102	103	97	102
480-223684-6	MW-PAR-09-09232024	101	100	94	99
480-223684-7	EB-09232024	100	102	94	102
480-223684-8	MW-06-10-09232024	101	102	96	102
LCS 480-726164/6	Lab Control Sample	101	97	98	98
MB 480-726164/8	Method Blank	102	103	96	103

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	(53-126)	(29-129)	(33-132)
480-223684-1	MW-06-09-09232024	65	57	77
480-223684-1 MS	MW-06-09-09232024	68	66	71
480-223684-1 MSD	MW-06-09-09232024	79	76	79
480-223684-2	FD-09232024	72	62	86
480-223684-4	MW-04-06-09232024	68	61	77
480-223684-5	MW-PAR-08-09232024	76	69	77
480-223684-6	MW-PAR-09-09232024	74	61	79
480-223684-7	EB-09232024	70	65	96
480-223684-8	MW-06-10-09232024	77	67	85
LCS 480-726170/2-A	Lab Control Sample	77	72	89
MB 480-726170/1-A	Method Blank	68	62	94

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 480-726164/8
Matrix: Water
Analysis Batch: 726164

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			09/26/24 01:37	1
Toluene	1.0	U	1.0	0.51	ug/L			09/26/24 01:37	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			09/26/24 01:37	1
m-Xylene & p-Xylene	2.0	U	2.0	0.66	ug/L			09/26/24 01:37	1
o-Xylene	1.0	U	1.0	0.76	ug/L			09/26/24 01:37	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			09/26/24 01:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*80 - 120*		*09/26/24 01:37*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*09/26/24 01:37*	*1*
4-Bromofluorobenzene (Surr)	*96*		*73 - 120*		*09/26/24 01:37*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 123*		*09/26/24 01:37*	*1*

Lab Sample ID: LCS 480-726164/6
Matrix: Water
Analysis Batch: 726164

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	26.7		ug/L		107	71 - 124
Toluene	25.0	27.2		ug/L		109	80 - 122
Ethylbenzene	25.0	27.3		ug/L		109	77 - 123
m-Xylene & p-Xylene	25.0	27.0		ug/L		108	76 - 122
o-Xylene	25.0	25.9		ug/L		104	76 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*97*		*77 - 120*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*
Dibromofluoromethane (Surr)	*98*		*75 - 123*

Lab Sample ID: 480-223684-1 MS
Matrix: Water
Analysis Batch: 726164

Client Sample ID: MW-06-09-09232024
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	2.0	U	50.0	52.0		ug/L		104	71 - 124
Toluene	2.0	U	50.0	55.1		ug/L		110	80 - 122
Ethylbenzene	2.0	U	50.0	54.9		ug/L		110	77 - 123
m-Xylene & p-Xylene	4.0	U	50.0	54.0		ug/L		108	76 - 122
o-Xylene	2.0	U	50.0	52.4		ug/L		105	76 - 122

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*93*		*77 - 120*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*
Dibromofluoromethane (Surr)	*94*		*75 - 123*

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

Lab Sample ID: 480-223684-1 MSD
Matrix: Water
Analysis Batch: 726164

Client Sample ID: MW-06-09-09232024
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	2.0	U	50.0	53.4		ug/L		107	71 - 124	3	13
Toluene	2.0	U	50.0	55.8		ug/L		112	80 - 122	1	15
Ethylbenzene	2.0	U	50.0	55.6		ug/L		111	77 - 123	1	15
m-Xylene & p-Xylene	4.0	U	50.0	54.6		ug/L		109	76 - 122	1	16
o-Xylene	2.0	U	50.0	53.1		ug/L		106	76 - 122	1	16

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*96*		*77 - 120*
4-Bromofluorobenzene (Surr)	*96*		*73 - 120*
Dibromofluoromethane (Surr)	*98*		*75 - 123*

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

Lab Sample ID: MB 480-726170/1-A
Matrix: Water
Analysis Batch: 726296

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 726170

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	5.0	U	5.0	0.41	ug/L		09/25/24 12:58	09/26/24 13:57	1
Acenaphthylene	5.0	U	5.0	0.38	ug/L		09/25/24 12:58	09/26/24 13:57	1
Anthracene	5.0	U	5.0	0.28	ug/L		09/25/24 12:58	09/26/24 13:57	1
Benzo(a)anthracene	5.0	U	5.0	0.36	ug/L		09/25/24 12:58	09/26/24 13:57	1
Benzo(a)pyrene	5.0	U	5.0	0.47	ug/L		09/25/24 12:58	09/26/24 13:57	1
Benzo(b)fluoranthene	5.0	U	5.0	0.34	ug/L		09/25/24 12:58	09/26/24 13:57	1
Benzo(g,h,i) perylene	5.0	U	5.0	0.35	ug/L		09/25/24 12:58	09/26/24 13:57	1
Benzo(k)fluoranthene	5.0	U	5.0	0.73	ug/L		09/25/24 12:58	09/26/24 13:57	1
Chrysene	5.0	U	5.0	0.33	ug/L		09/25/24 12:58	09/26/24 13:57	1
Dibenz(a,h)anthracene	5.0	U	5.0	0.42	ug/L		09/25/24 12:58	09/26/24 13:57	1
Fluoranthene	5.0	U	5.0	0.40	ug/L		09/25/24 12:58	09/26/24 13:57	1
Fluorene	5.0	U	5.0	0.36	ug/L		09/25/24 12:58	09/26/24 13:57	1
Ideno(1,2,3-cd)pyrene	5.0	U	5.0	0.47	ug/L		09/25/24 12:58	09/26/24 13:57	1
Naphthalene	5.0	U	5.0	0.76	ug/L		09/25/24 12:58	09/26/24 13:57	1
Phenanthrene	5.0	U	5.0	0.44	ug/L		09/25/24 12:58	09/26/24 13:57	1
Pyrene	5.0	U	5.0	0.34	ug/L		09/25/24 12:58	09/26/24 13:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*68*		*53 - 126*	*09/25/24 12:58*	*09/26/24 13:57*	*1*
Nitrobenzene-d5 (Surr)	*62*		*29 - 129*	*09/25/24 12:58*	*09/26/24 13:57*	*1*
p-Terphenyl-d14 (Surr)	*94*		*33 - 132*	*09/25/24 12:58*	*09/26/24 13:57*	*1*

Lab Sample ID: LCS 480-726170/2-A
Matrix: Water
Analysis Batch: 726296

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 726170

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	32.0	26.3		ug/L		82	60 - 120
Acenaphthylene	32.0	26.9		ug/L		84	63 - 120

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

Lab Sample ID: LCS 480-726170/2-A
Matrix: Water
Analysis Batch: 726296

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 726170

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Anthracene	32.0	31.3		ug/L		98	67 - 120
Benzo(a)anthracene	32.0	31.3		ug/L		98	70 - 121
Benzo(a)pyrene	32.0	30.7		ug/L		96	60 - 123
Benzo(b)fluoranthene	32.0	30.1		ug/L		94	66 - 126
Benzo(g,h,i) perylene	32.0	31.3		ug/L		98	66 - 150
Benzo(k)fluoranthene	32.0	30.2		ug/L		94	65 - 124
Chrysene	32.0	31.3		ug/L		98	69 - 120
Dibenz(a,h)anthracene	32.0	31.4		ug/L		98	65 - 135
Fluoranthene	32.0	31.7		ug/L		99	69 - 126
Fluorene	32.0	28.0		ug/L		88	66 - 120
Ideno(1,2,3-cd)pyrene	32.0	31.7		ug/L		99	69 - 146
Naphthalene	32.0	23.6		ug/L		74	57 - 120
Phenanthrene	32.0	29.7		ug/L		93	68 - 120
Pyrene	32.0	31.6		ug/L		99	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*77*		*53 - 126*
Nitrobenzene-d5 (Surr)	*72*		*29 - 129*
p-Terphenyl-d14 (Surr)	*89*		*33 - 132*

Lab Sample ID: 480-223684-1 MS
Matrix: Water
Analysis Batch: 726296

Client Sample ID: MW-06-09-09232024
Prep Type: Total/NA
Prep Batch: 726170

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	5.2	U	33.3	23.6		ug/L		71	48 - 120
Acenaphthylene	5.2	U	33.3	24.5		ug/L		74	63 - 120
Anthracene	5.2	U	33.3	29.2		ug/L		88	65 - 122
Benzo(a)anthracene	5.2	U	33.3	30.6		ug/L		92	43 - 124
Benzo(a)pyrene	5.2	U	33.3	29.6		ug/L		89	23 - 125
Benzo(b)fluoranthene	5.2	U	33.3	28.5		ug/L		85	27 - 127
Benzo(g,h,i) perylene	5.2	U	33.3	28.9		ug/L		87	16 - 147
Benzo(k)fluoranthene	5.2	U	33.3	30.9		ug/L		93	20 - 124
Chrysene	5.2	U	33.3	30.6		ug/L		92	44 - 122
Dibenz(a,h)anthracene	5.2	U	33.3	28.3		ug/L		85	16 - 139
Fluoranthene	5.2	U	33.3	30.3		ug/L		91	63 - 129
Fluorene	5.2	U	33.3	26.4		ug/L		79	62 - 120
Ideno(1,2,3-cd)pyrene	5.2	U	33.3	29.0		ug/L		87	16 - 140
Naphthalene	5.2	U	33.3	22.9		ug/L		69	45 - 120
Phenanthrene	5.2	U	33.3	29.2		ug/L		87	65 - 122
Pyrene	5.2	U	33.3	32.3		ug/L		97	58 - 128

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*68*		*53 - 126*
Nitrobenzene-d5 (Surr)	*66*		*29 - 129*
p-Terphenyl-d14 (Surr)	*71*		*33 - 132*

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

Lab Sample ID: 480-223684-1 MSD
Matrix: Water
Analysis Batch: 726296

Client Sample ID: MW-06-09-09232024
Prep Type: Total/NA
Prep Batch: 726170

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acenaphthene	5.2	U	33.3	26.8		ug/L		80	48 - 120	13	24
Acenaphthylene	5.2	U	33.3	27.6		ug/L		83	63 - 120	12	18
Anthracene	5.2	U	33.3	31.5		ug/L		94	65 - 122	7	15
Benzo(a)anthracene	5.2	U	33.3	32.6		ug/L		98	43 - 124	6	15
Benzo(a)pyrene	5.2	U	33.3	31.4		ug/L		94	23 - 125	6	15
Benzo(b)fluoranthene	5.2	U	33.3	29.5		ug/L		88	27 - 127	3	15
Benzo(g,h,i) perylene	5.2	U	33.3	30.9		ug/L		93	16 - 147	7	15
Benzo(k)fluoranthene	5.2	U	33.3	30.7		ug/L		92	20 - 124	1	22
Chrysene	5.2	U	33.3	32.1		ug/L		96	44 - 122	5	15
Dibenz(a,h)anthracene	5.2	U	33.3	30.8		ug/L		92	16 - 139	8	15
Fluoranthene	5.2	U	33.3	32.4		ug/L		97	63 - 129	7	15
Fluorene	5.2	U	33.3	28.7		ug/L		86	62 - 120	8	15
Ideno(1,2,3-cd)pyrene	5.2	U	33.3	31.8		ug/L		95	16 - 140	9	15
Naphthalene	5.2	U	33.3	26.2		ug/L		79	45 - 120	13	29
Phenanthrene	5.2	U	33.3	29.9		ug/L		90	65 - 122	3	15
Pyrene	5.2	U	33.3	34.6		ug/L		104	58 - 128	7	19

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*79*		*53 - 126*
Nitrobenzene-d5 (Surr)	*76*		*29 - 129*
p-Terphenyl-d14 (Surr)	*79*		*33 - 132*

QC Association Summary

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

Job ID: 480-223684-1

GC/MS VOA

Analysis Batch: 726164

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-223684-1	MW-06-09-09232024	Total/NA	Water	8260C	
480-223684-2	FD-09232024	Total/NA	Water	8260C	
480-223684-3	TB-09232024	Total/NA	Water	8260C	
480-223684-4	MW-04-06-09232024	Total/NA	Water	8260C	
480-223684-5	MW-PAR-08-09232024	Total/NA	Water	8260C	
480-223684-6	MW-PAR-09-09232024	Total/NA	Water	8260C	
480-223684-7	EB-09232024	Total/NA	Water	8260C	
480-223684-8	MW-06-10-09232024	Total/NA	Water	8260C	
MB 480-726164/8	Method Blank	Total/NA	Water	8260C	
LCS 480-726164/6	Lab Control Sample	Total/NA	Water	8260C	
480-223684-1 MS	MW-06-09-09232024	Total/NA	Water	8260C	
480-223684-1 MSD	MW-06-09-09232024	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 726170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-223684-1	MW-06-09-09232024	Total/NA	Water	3510C	
480-223684-2	FD-09232024	Total/NA	Water	3510C	
480-223684-4	MW-04-06-09232024	Total/NA	Water	3510C	
480-223684-5	MW-PAR-08-09232024	Total/NA	Water	3510C	
480-223684-6	MW-PAR-09-09232024	Total/NA	Water	3510C	
480-223684-7	EB-09232024	Total/NA	Water	3510C	
480-223684-8	MW-06-10-09232024	Total/NA	Water	3510C	
MB 480-726170/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-726170/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-223684-1 MS	MW-06-09-09232024	Total/NA	Water	3510C	
480-223684-1 MSD	MW-06-09-09232024	Total/NA	Water	3510C	

Analysis Batch: 726296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-223684-1	MW-06-09-09232024	Total/NA	Water	8270D	726170
480-223684-2	FD-09232024	Total/NA	Water	8270D	726170
480-223684-4	MW-04-06-09232024	Total/NA	Water	8270D	726170
480-223684-5	MW-PAR-08-09232024	Total/NA	Water	8270D	726170
480-223684-6	MW-PAR-09-09232024	Total/NA	Water	8270D	726170
480-223684-7	EB-09232024	Total/NA	Water	8270D	726170
480-223684-8	MW-06-10-09232024	Total/NA	Water	8270D	726170
MB 480-726170/1-A	Method Blank	Total/NA	Water	8270D	726170
LCS 480-726170/2-A	Lab Control Sample	Total/NA	Water	8270D	726170
480-223684-1 MS	MW-06-09-09232024	Total/NA	Water	8270D	726170
480-223684-1 MSD	MW-06-09-09232024	Total/NA	Water	8270D	726170

Lab Chronicle

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

Job ID: 480-223684-1

Client Sample ID: MW-06-09-09232024
Lab Sample ID: 480-223684-1
Date Collected: 09/23/24 12:00
Matrix: Water
Date Received: 09/25/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		2	726164	ERS	EET BUF	09/26/24 02:00
Total/NA	Prep	3510C			726170	LSC	EET BUF	09/25/24 12:58
Total/NA	Analysis	8270D		1	726296	RJS	EET BUF	09/26/24 16:43

Client Sample ID: FD-09232024
Lab Sample ID: 480-223684-2
Date Collected: 09/23/24 12:15
Matrix: Water
Date Received: 09/25/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		2	726164	ERS	EET BUF	09/26/24 02:22
Total/NA	Prep	3510C			726170	LSC	EET BUF	09/25/24 12:58
Total/NA	Analysis	8270D		1	726296	RJS	EET BUF	09/26/24 18:06

Client Sample ID: TB-09232024
Lab Sample ID: 480-223684-3
Date Collected: 09/23/24 09:45
Matrix: Water
Date Received: 09/25/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	726164	ERS	EET BUF	09/26/24 02:44

Client Sample ID: MW-04-06-09232024
Lab Sample ID: 480-223684-4
Date Collected: 09/23/24 13:25
Matrix: Water
Date Received: 09/25/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	726164	ERS	EET BUF	09/26/24 03:07
Total/NA	Prep	3510C			726170	LSC	EET BUF	09/25/24 12:58
Total/NA	Analysis	8270D		1	726296	RJS	EET BUF	09/26/24 18:34

Client Sample ID: MW-PAR-08-09232024
Lab Sample ID: 480-223684-5
Date Collected: 09/23/24 13:05
Matrix: Water
Date Received: 09/25/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		2	726164	ERS	EET BUF	09/26/24 03:29
Total/NA	Prep	3510C			726170	LSC	EET BUF	09/25/24 12:58
Total/NA	Analysis	8270D		1	726296	RJS	EET BUF	09/26/24 19:01

Client Sample ID: MW-PAR-09-09232024
Lab Sample ID: 480-223684-6
Date Collected: 09/23/24 11:10
Matrix: Water
Date Received: 09/25/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	726164	ERS	EET BUF	09/26/24 03:51
Total/NA	Prep	3510C			726170	LSC	EET BUF	09/25/24 12:58
Total/NA	Analysis	8270D		1	726296	RJS	EET BUF	09/26/24 19:29

Lab Chronicle

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

Job ID: 480-223684-1

Client Sample ID: EB-09232024

Lab Sample ID: 480-223684-7

Date Collected: 09/23/24 14:00

Matrix: Water

Date Received: 09/25/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	726164	ERS	EET BUF	09/26/24 04:14
Total/NA	Prep	3510C			726170	LSC	EET BUF	09/25/24 12:58
Total/NA	Analysis	8270D		1	726296	RJS	EET BUF	09/26/24 19:57

Client Sample ID: MW-06-10-09232024

Lab Sample ID: 480-223684-8

Date Collected: 09/23/24 12:00

Matrix: Water

Date Received: 09/25/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		2	726164	ERS	EET BUF	09/26/24 04:36
Total/NA	Prep	3510C			726170	LSC	EET BUF	09/25/24 12:58
Total/NA	Analysis	8270D		1	726296	RJS	EET BUF	09/26/24 20:24

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: 480-223684-1
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	03-31-25

Method Summary

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

Job ID: 480-223684-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET BUF
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: 480-223684-1
Project/Site: Avangrid - McMaster Street

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-223684-1	MW-06-09-09232024	Water	09/23/24 12:00	09/25/24 10:30
480-223684-2	FD-09232024	Water	09/23/24 12:15	09/25/24 10:30
480-223684-3	TB-09232024	Water	09/23/24 09:45	09/25/24 10:30
480-223684-4	MW-04-06-09232024	Water	09/23/24 13:25	09/25/24 10:30
480-223684-5	MW-PAR-08-09232024	Water	09/23/24 13:05	09/25/24 10:30
480-223684-6	MW-PAR-09-09232024	Water	09/23/24 11:10	09/25/24 10:30
480-223684-7	EB-09232024	Water	09/23/24 14:00	09/25/24 10:30
480-223684-8	MW-06-10-09232024	Water	09/23/24 12:00	09/25/24 10:30

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

Chain of Custody Record

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Syracuse #225

Client Information	Sampler: Zack Cornish	Lab PM: Schove, John R	Carrier Tracking No(s):	COC No: 480-199498-38378.1
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:	Analysis Requested		Job #:
Address: 301 Plainfield Road Suite 350	Due Date Requested:			Preservation Codes: N - None, A - HCL
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 St	SSOW#:			Other:

480-223684 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D - PAH Semivolatiles	8260C - BTEX	Total Number of cor	Special Instructions/Note:
			Preservation Code:				N	A		
MW-06-09-09232024	9/23/24	1200	G	Water	N	Y	6	9	15	MS/MSD Collected
FD-09232024	9/23/24	1215	G	Water	N	N	2	3	5	
TB-09232024	9/23/24	0945	G	Water	N	N	X	2	2	
MW-04-06-09232024	9/23/24	1325	G	Water	N	N	2	3	5	
MW-PAR-08-09232024	9/23/24	1305	G	Water	N	N	2	3	5	
MW-PAR-09-09232024	9/23/24	1110	G	Water	N	N	2	3	5	
EB-09232024	9/23/24	1400	G	Water	N	N	2	3	5	
				Water						
				Water						

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	9/24/24 @ 1600	PARSONS	Cwalker	9/25/24 1030	TAB
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 2.6

Ver: 05/06/2024

Login Sample Receipt Checklist

Client: Parsons Corporation

Job Number: 480-223684-1

Login Number: 223684
List Number: 1
Creator: Stopa, Erik S

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.	N/A	
Chlorine Residual checked.	N/A	

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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

480-225451-1

Eurofins Buffalo
10 Hazelwood Drive
Amherst NY 14228-2298

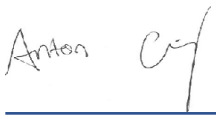
See page two for job notes and contact information.

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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Authorized for release by
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Designee for
John Schove, Project Manager II
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(716)504-9838

Table of Contents

Definitions/Glossary

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

Job ID: 480-225451-1

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: 480-225451-1 Eurofins Buffalo

Job Narrative
480-225451-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The sample was received on 11/14/2024 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 time was 3.0°C.

GC/MS VOA
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: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 480-732796.

Method 8270D: The following sample was diluted due to color, appearance, and viscosity: MW-PAR-08-11132024 (480-225451-1). Elevated reporting limits (RL) are provided.

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: 480-225451-1

Client Sample ID: MW-PAR-08-11132024

Lab Sample ID: 480-225451-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	15		1.0	0.41	ug/L	1		8260C	Total/NA
Ethylbenzene	2.9		1.0	0.74	ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	1.8	J	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	3.1		2.0	0.66	ug/L	1		8260C	Total/NA
Acenaphthene	9.8	J	25	2.1	ug/L	5		8270D	Total/NA
Acenaphthylene	3.3	J	25	1.9	ug/L	5		8270D	Total/NA
Anthracene	2.6	J	25	1.4	ug/L	5		8270D	Total/NA
Fluorene	5.2	J	25	1.8	ug/L	5		8270D	Total/NA
Phenanthrene	7.0	J	25	2.2	ug/L	5		8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

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

Job ID: 480-225451-1

Client Sample ID: MW-PAR-08-11132024

Date Collected: 11/13/24 10:40
Date Received: 11/14/24 10:00

Lab Sample ID: 480-225451-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**15**		1.0	0.41	ug/L			11/18/24 13:31	1
Toluene	1.0	U	1.0	0.51	ug/L			11/18/24 13:31	1
Ethylbenzene	**2.9**		1.0	0.74	ug/L			11/18/24 13:31	1
m-Xylene & p-Xylene	**1.8**	**J**	2.0	0.66	ug/L			11/18/24 13:31	1
o-Xylene	**1.3**		1.0	0.76	ug/L			11/18/24 13:31	1
Xylenes, Total	**3.1**		2.0	0.66	ug/L			11/18/24 13:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*80 - 120*		*11/18/24 13:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*		*11/18/24 13:31*	*1*
4-Bromofluorobenzene (Surr)	*107*		*73 - 120*		*11/18/24 13:31*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*11/18/24 13:31*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**9.8**	**J**	25	2.1	ug/L		11/18/24 14:01	11/19/24 16:06	5
Acenaphthylene	**3.3**	**J**	25	1.9	ug/L		11/18/24 14:01	11/19/24 16:06	5
Anthracene	**2.6**	**J**	25	1.4	ug/L		11/18/24 14:01	11/19/24 16:06	5
Benzo(a)anthracene	25	U	25	1.8	ug/L		11/18/24 14:01	11/19/24 16:06	5
Benzo(a)pyrene	25	U	25	2.4	ug/L		11/18/24 14:01	11/19/24 16:06	5
Benzo(b)fluoranthene	25	U	25	1.7	ug/L		11/18/24 14:01	11/19/24 16:06	5
Benzo(g,h,i) perylene	25	U	25	1.8	ug/L		11/18/24 14:01	11/19/24 16:06	5
Benzo(k)fluoranthene	25	U	25	3.7	ug/L		11/18/24 14:01	11/19/24 16:06	5
Chrysene	25	U	25	1.7	ug/L		11/18/24 14:01	11/19/24 16:06	5
Dibenz(a,h)anthracene	25	U	25	2.1	ug/L		11/18/24 14:01	11/19/24 16:06	5
Fluoranthene	25	U	25	2.0	ug/L		11/18/24 14:01	11/19/24 16:06	5
Fluorene	**5.2**	**J**	25	1.8	ug/L		11/18/24 14:01	11/19/24 16:06	5
Ideno(1,2,3-cd)pyrene	25	U	25	2.4	ug/L		11/18/24 14:01	11/19/24 16:06	5
Naphthalene	25	U	25	3.8	ug/L		11/18/24 14:01	11/19/24 16:06	5
Phenanthrene	**7.0**	**J**	25	2.2	ug/L		11/18/24 14:01	11/19/24 16:06	5
Pyrene	25	U	25	1.7	ug/L		11/18/24 14:01	11/19/24 16:06	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*69*		*53 - 126*	*11/18/24 14:01*	*11/19/24 16:06*	*5*
Nitrobenzene-d5 (Surr)	*53*		*29 - 129*	*11/18/24 14:01*	*11/19/24 16:06*	*5*
p-Terphenyl-d14 (Surr)	*76*		*33 - 132*	*11/18/24 14:01*	*11/19/24 16:06*	*5*

Surrogate Summary

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

Job ID: 480-225451-1

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)
480-225451-1	MW-PAR-08-11132024	96	100	107	102
LCS 480-732729/6	Lab Control Sample	95	96	102	94
MB 480-732729/8	Method Blank	93	107	105	104

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	(53-126)	(29-129)	(33-132)
480-225451-1	MW-PAR-08-11132024	69	53	76
LCS 480-732796/2-A	Lab Control Sample	71	64	97
LCSD 480-732796/3-A	Lab Control Sample Dup	73	63	91
MB 480-732796/1-A	Method Blank	66	58	84

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 480-732729/8
Matrix: Water
Analysis Batch: 732729

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			11/18/24 12:18	1
Toluene	1.0	U	1.0	0.51	ug/L			11/18/24 12:18	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			11/18/24 12:18	1
m-Xylene & p-Xylene	2.0	U	2.0	0.66	ug/L			11/18/24 12:18	1
o-Xylene	1.0	U	1.0	0.76	ug/L			11/18/24 12:18	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			11/18/24 12:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*80 - 120*		*11/18/24 12:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*77 - 120*		*11/18/24 12:18*	*1*
4-Bromofluorobenzene (Surr)	*105*		*73 - 120*		*11/18/24 12:18*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 123*		*11/18/24 12:18*	*1*

Lab Sample ID: LCS 480-732729/6
Matrix: Water
Analysis Batch: 732729

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	25.0	22.2		ug/L		89	71 - 124
Toluene	25.0	23.0		ug/L		92	80 - 122
Ethylbenzene	25.0	23.4		ug/L		93	77 - 123
m-Xylene & p-Xylene	25.0	24.0		ug/L		96	76 - 122
o-Xylene	25.0	23.9		ug/L		96	76 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*95*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*96*		*77 - 120*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*
Dibromofluoromethane (Surr)	*94*		*75 - 123*

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

Lab Sample ID: MB 480-732796/1-A
Matrix: Water
Analysis Batch: 732859

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 732796

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	5.0	U	5.0	0.41	ug/L		11/18/24 14:01	11/19/24 13:01	1
Acenaphthylene	5.0	U	5.0	0.38	ug/L		11/18/24 14:01	11/19/24 13:01	1
Anthracene	5.0	U	5.0	0.28	ug/L		11/18/24 14:01	11/19/24 13:01	1
Benzo(a)anthracene	5.0	U	5.0	0.36	ug/L		11/18/24 14:01	11/19/24 13:01	1
Benzo(a)pyrene	5.0	U	5.0	0.47	ug/L		11/18/24 14:01	11/19/24 13:01	1
Benzo(b)fluoranthene	5.0	U	5.0	0.34	ug/L		11/18/24 14:01	11/19/24 13:01	1
Benzo(g,h,i) perylene	5.0	U	5.0	0.35	ug/L		11/18/24 14:01	11/19/24 13:01	1
Benzo(k)fluoranthene	5.0	U	5.0	0.73	ug/L		11/18/24 14:01	11/19/24 13:01	1
Chrysene	5.0	U	5.0	0.33	ug/L		11/18/24 14:01	11/19/24 13:01	1
Dibenz(a,h)anthracene	5.0	U	5.0	0.42	ug/L		11/18/24 14:01	11/19/24 13:01	1
Fluoranthene	5.0	U	5.0	0.40	ug/L		11/18/24 14:01	11/19/24 13:01	1

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

Lab Sample ID: MB 480-732796/1-A
Matrix: Water
Analysis Batch: 732859

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 732796

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	5.0	U	5.0	0.36	ug/L		11/18/24 14:01	11/19/24 13:01	1
Ideno(1,2,3-cd)pyrene	5.0	U	5.0	0.47	ug/L		11/18/24 14:01	11/19/24 13:01	1
Naphthalene	5.0	U	5.0	0.76	ug/L		11/18/24 14:01	11/19/24 13:01	1
Phenanthrene	5.0	U	5.0	0.44	ug/L		11/18/24 14:01	11/19/24 13:01	1
Pyrene	5.0	U	5.0	0.34	ug/L		11/18/24 14:01	11/19/24 13:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*66*		*53 - 126*	*11/18/24 14:01*	*11/19/24 13:01*	*1*
Nitrobenzene-d5 (Surr)	*58*		*29 - 129*	*11/18/24 14:01*	*11/19/24 13:01*	*1*
p-Terphenyl-d14 (Surr)	*84*		*33 - 132*	*11/18/24 14:01*	*11/19/24 13:01*	*1*

Lab Sample ID: LCS 480-732796/2-A
Matrix: Water
Analysis Batch: 732859

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 732796

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	32.0	23.2		ug/L		73	60 - 120
Acenaphthylene	32.0	25.1		ug/L		79	63 - 120
Anthracene	32.0	30.7		ug/L		96	67 - 120
Benzo(a)anthracene	32.0	31.2		ug/L		97	70 - 121
Benzo(a)pyrene	32.0	31.1		ug/L		97	60 - 123
Benzo(b)fluoranthene	32.0	30.5		ug/L		95	66 - 126
Benzo(g,h,i) perylene	32.0	32.1		ug/L		100	66 - 150
Benzo(k)fluoranthene	32.0	31.5		ug/L		98	65 - 124
Chrysene	32.0	31.5		ug/L		98	69 - 120
Dibenz(a,h)anthracene	32.0	32.6		ug/L		102	65 - 135
Fluoranthene	32.0	33.5		ug/L		105	69 - 126
Fluorene	32.0	25.6		ug/L		80	66 - 120
Ideno(1,2,3-cd)pyrene	32.0	32.4		ug/L		101	69 - 146
Naphthalene	32.0	20.7		ug/L		65	57 - 120
Phenanthrene	32.0	28.2		ug/L		88	68 - 120
Pyrene	32.0	31.8		ug/L		99	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*71*		*53 - 126*
Nitrobenzene-d5 (Surr)	*64*		*29 - 129*
p-Terphenyl-d14 (Surr)	*97*		*33 - 132*

Lab Sample ID: LCSD 480-732796/3-A
Matrix: Water
Analysis Batch: 732859

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 732796

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acenaphthene	32.0	24.6		ug/L		77	60 - 120	6	24
Acenaphthylene	32.0	26.5		ug/L		83	63 - 120	5	18
Anthracene	32.0	29.9		ug/L		94	67 - 120	2	15
Benzo(a)anthracene	32.0	29.8		ug/L		93	70 - 121	4	15
Benzo(a)pyrene	32.0	29.6		ug/L		93	60 - 123	5	15

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

Lab Sample ID: LCSD 480-732796/3-A
Matrix: Water
Analysis Batch: 732859

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 732796

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzo(b)fluoranthene			32.0	29.0		ug/L		91	66 - 126	5	15
Benzo(g,h,i) perylene			32.0	30.3		ug/L		95	66 - 150	6	15
Benzo(k)fluoranthene			32.0	29.7		ug/L		93	65 - 124	6	22
Chrysene			32.0	30.3		ug/L		95	69 - 120	4	15
Dibenz(a,h)anthracene			32.0	30.5		ug/L		95	65 - 135	7	15
Fluoranthene			32.0	32.1		ug/L		100	69 - 126	4	15
Fluorene			32.0	27.1		ug/L		85	66 - 120	6	15
Ideno(1,2,3-cd)pyrene			32.0	30.2		ug/L		94	69 - 146	7	15
Naphthalene			32.0	20.9		ug/L		65	57 - 120	1	29
Phenanthrene			32.0	28.2		ug/L		88	68 - 120	0	15
Pyrene			32.0	30.4		ug/L		95	70 - 125	5	19

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*73*		*53 - 126*
Nitrobenzene-d5 (Surr)	*63*		*29 - 129*
p-Terphenyl-d14 (Surr)	*91*		*33 - 132*

QC Association Summary

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

Job ID: 480-225451-1

GC/MS VOA

Analysis Batch: 732729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225451-1	MW-PAR-08-11132024	Total/NA	Water	8260C	
MB 480-732729/8	Method Blank	Total/NA	Water	8260C	
LCS 480-732729/6	Lab Control Sample	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 732796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225451-1	MW-PAR-08-11132024	Total/NA	Water	3510C	
MB 480-732796/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-732796/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 480-732796/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 732859

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225451-1	MW-PAR-08-11132024	Total/NA	Water	8270D	732796
MB 480-732796/1-A	Method Blank	Total/NA	Water	8270D	732796
LCS 480-732796/2-A	Lab Control Sample	Total/NA	Water	8270D	732796
LCSD 480-732796/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	732796

Lab Chronicle

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

Job ID: 480-225451-1

Client Sample ID: MW-PAR-08-11132024

Date Collected: 11/13/24 10:40
Date Received: 11/14/24 10:00

Lab Sample ID: 480-225451-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	732729	AD	EET BUF	11/18/24 13:31
Total/NA	Prep	3510C			732796	LSC	EET BUF	11/18/24 14:01
Total/NA	Analysis	8270D		5	732859	JMM	EET BUF	11/19/24 16:06

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: 480-225451-1
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	03-31-25

Method Summary

Client: Parsons Corporation
Job ID: 480-225451-1
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
Project/Site: Avangrid - McMaster Street

Job ID: 480-225451-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-225451-1	MW-PAR-08-11132024	Water	11/13/24 10:40	11/14/24 10:00

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

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Zack Cornish	Lab PM: Schove, John R	Carrier Tracking No(s): Syracuse #225	COC No: 480-200806-38378.1
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: McMaste	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)	8270D - PAH Semivolatiles	8260C - BTEX	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	A		
MW-PAL-08-11132024	11/13/24	1040	G	Water	N	N	X	X		

Preservation Codes:
N - None
A - HCL

Other:

480-225451 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	11/13/24 @ 1700	PARSONS			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	11/14/24 1000				TRB
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: 3.0 IR#5C

Ver: 10/10/2024

Login Sample Receipt Checklist

Client: Parsons Corporation

Job Number: 480-225451-1

Login Number: 225451
List Number: 1
Creator: Stapleton, Kaitlyn

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	3.0 IR#SC 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	Parsons Corporation
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

MCMASTER STREET FORMER MGP SITE

Observations:

Photographs 1 – 2 show invasive species treatment on isolated patches of Japanese knotweed (*Reynoutria japonica*) (September 12, 2024). Photograph 3 – 6 shows the comprehensive vegetation plot analysis (October 3, 2024). Photograph 6 shows the impact of regular mowing on plot VEG-03.

Photograph 1

Photograph 2

Photograph 3

Photograph 4

Photograph 5

Photograph 6

MCMASTER STREET FORMER MGP SITE

Observations:

Photographs 7 – 9 show red chokeberry (*Aronia arbutifolia*), willow live stakes (*Salix* sp.), and dogwood (*Cornus* sp.) which were planted in 2018 and are well established on Site (October 3, 2024).
Photographs 10 – 12 show numerous naturally colonized native trees including staghorn sumac (*Rhus typhina*), box elder (*Acer negundo*), and cottonwood (*Populus deltoides*) which have become established on Site (October 3, 2024).

Photograph 7

Photograph 8

Photograph 9

Photograph 10

Photograph 11

Photograph 12

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?

   9/25/24: 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?

   9/25/24: 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) been issued for or at the property since the initial/last certification?

   9/25/24: 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 Restricted Area on which the Environmental Easement is filed?

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

   9/25/24: 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?

   9/25/24: 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.

   9/25/24: 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?

   9/25/24: 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

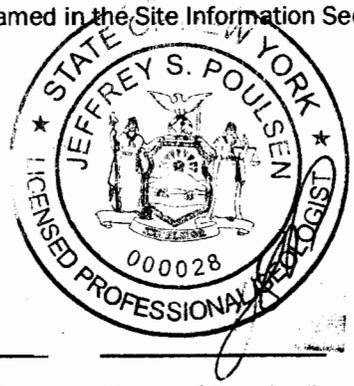
Owner or Remedial Party Rendering Certification

5/2/2025

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.



May 2, 2025

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

Stamp (if Required)

Date